Leading Inverter Manufacturer

String Inverter | Hybrid Inverter | Microinverter

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For the latest product information, please scan the QR code below or visit: www.deyeinverter.com

Official Website

Online Brochure

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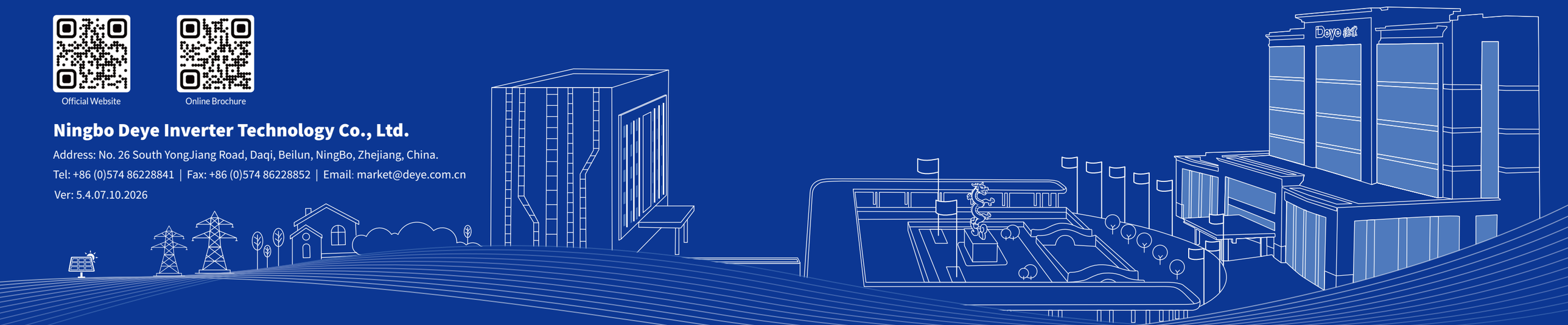


DEYE CORPORATION

Ningbo Deye Technology Corporation, a global leader in the new energy industry, has steadily built an integrated value chain system spanning R&D, design, production, sales and service since its founding in 2000. In April 2021, Deye was successfully listed on the Main Board of the Shanghai Stock Exchange (Stock Code: 605117.SH), marking the beginning of a new phase of accelerated growth.

Today, Deye Corporation's main business includes PV and hybrid inverters, energy storage batteries and energy storage systems, and environmental appliances represented by dehumidifiers and HVAC products. It establishes modern intelligent manufacturing bases in Ningbo, Jiaxing and Malaysia, equipped with comprehensive production facilities and testing systems.

2025 REVENUE

USD 1.8B

EMPLOYEES

7000+

MANUFACTURING BASES

1000000+m^2

ABOUTUS

Ningbo Deye Inverter Technology Co., Ltd.

Ningbo Deye Inverter Technology Co., Ltd. is a wholly-owned subsidiary of Deye Group, specializing in developing inverter technology and creating reliable, cost-effective, and sustainable inverter-centric energy solutions since 2007. Deye's product portfolio covers 1kW-136kW string inverters, 3kW-125kW hybrid inverters and 300W-2.25kW microinverters.

Adapting to evolving energy scenarios, Deye continuously drives innovations through its energy IoT ecosystem powered by Deye Cloud. Deye enhances existing products and develops next-generation energy solutions, including micro hybrid ESS, wireless zero-export systems, LoRa-based wireless energy management systems, 100/125kW-2.5MW C&I ESS solutions and 3kW-6.6kW single-phase off-grid inverters.

As a one-stop provider of solar PV and energy storage solutions, Deye has developed battery product lines tailored to its inverters. It also delivers high-efficiency outdoor energy storage systems suitable for commercial and industrial applications of varying scales.

DEVELOPMENT COURSE

2000

Deye Group was founded in Ningbo, China.

2007

Ningbo Deye Inverter Technology Co., Ltd. was established.

2017

Introduced the first-generation hybrid inverter with PV input and battery charge control, supporting up to 16 units in parallel and 4ms on-grid/off-grid switching.

2019

Deye hybrid inverter shipments surpassed 30,000 units, with leading shipment volume in South Africa, Pakistan, and the U.S.

2021

Ningbo Deye Technology Corporation was successfully listed on the Shanghai Stock Exchange (Stock Code: 605117.SH).

2022

Launched the 50kW hybrid inverter for commercial and industrial applications, featuring a wide battery voltage range and enhanced compatibility.

2023

- Cumulative shipments of hybrid inverters surpassed 1 million units.
- Ningbo Deye ESS Technology Co., Ltd. was established.

2024

Launched the world's first 20kW three-phase LV hybrid inverter and new 80kW three-phase HV hybrid inverter.

2025

- Deye inverter shipments exceeded 5 million units, including over 2 million hybrid inverters.
- Introduced the 125kW three-phase hybrid inverter and 100/125kW-2.5MW modular C&I ESS solution integrating PCS, MPPT and STS modules, raising the maximum capacity of a single system to 2.5MW.

PRODUCT CATEGORIES

01

STRING INVERTER

Deye grid-connected inverter 1-136kW

Deye string inverter offers a spectrum of power options ranging from 1-136kW, supporting practical functions such as string monitoring, Arc Fault Circuit Interrupter (AFCI), zero export, and Potential Induced Degradation (PID) repair.

It is actively being developed to support larger current module and string models with greater power, aiding distributed photovoltaic power stations in further reducing the Levelized Cost of Electricity (LCOE), minimizing investment costs, accelerating the payback period, and providing partners with foreseeable high-value returns.

Single Phase String Inverter

SUN-1/1.5/2/2.2/2.5/2.7/3/3.3/3.6/4K-G04P1-EU-AM1

Efficient

- 1 MPP trackers, Max. efficiency up to 97.5%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

Model	SUN-1K-G04 P1-EU-AM1	SUN-1.5K-G04 P1-EU-AM1	SUN-2K-G04 P1-EU-AM1	SUN-2.2K-G04 P1-EU-AM1	SUN-2.5K-G04 P1-EU-AM1	SUN-2.7K-G04 P1-EU-AM1	SUN-3K-G04 P1-EU-AM1	SUN-3.3K-G04 P1-EU-AM1	SUN-3.6K-G04 P1-EU-AM1	SUN-4K-G04 P1-EU-AM1
PV String Input Data										
Max. PV Input Power (kW)	1.3	2	2.6	2.9	3.3	3.5	3.9	4.3	4.7	5.2
Max. PV Input Voltage (V)	550									
Start-up Voltage (V)	80									
MPPT Voltage Range (V)	70-500									
Rated PV Input Voltage (V)	360									420
Max. Operating PV Input Current (A)	20									
Max. Input Short Circuit Current (A)	30									
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1									
AC Output Side										
Rated AC Output Active Power (kW)	1	1.5	2	2.2	2.5	2.7	3	3.3	3.6	4
Max. AC Output Apparent Power (kVA)	1.1	1.65	2.2	2.42	2.75	2.97	3.3	3.63	3.96	4.4
Rated AC Output Current (A)	4.6/4.4	6.8/6.5	9.1/8.7	10/9.6	11.4/10.9	12.3/11.8	13.7/13.1	15/14.4	16.4/15.7	18.2/17.4
Max. AC Output Current (A)	5/4.8	7.5/7.2	10/9.6	11/10.6	12.5/12	13.5/13	15/14.4	16.5/15.8	18/17.3	20/19.2
Rated output voltage	220/230 0.85Un-1.1Un L/N/PE									
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65									
Power Factor Adjustment Range	0.8 leading to 0.8 lagging									
Total Current Harmonic Distortion THDi	<3%									
DC Injection Current	<0.5%In									
Efficiency										
Max. Efficiency	97.3%						97.5%			
Euro Efficiency	96.9%						97.0%			
MPPT Efficiency	>99%									
Equipment Protection										
DC Reverse Polarity Protection	Yes									
AC Output Overcurrent Protection	Yes									
AC Output Overvoltage Protection	Yes									
AC Output Short Circuit Protection	Yes									
Thermal Protection	Yes									
Insulation Impedance Detection	Yes									
DC Component Monitoring	Yes									
Arc Fault Circuit Interrupter (AFCI)	Optional									
Anti-islanding Protection	Yes									
Residual Current Detection	Yes									
DC Switch	Yes									
Surge Protection Level	TYPE II(DC), TYPE II(AC)									
Interface										
LCD/LED Display	LCD1602									
Communication Interface	RS485/RS232 /WiFi/LAN									
General Data										
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating									
Permissible Ambient Humidity	0-100%									
Permissible Altitude	3000m									
Noise (dB)	≤35									
Ingress Protection(IP) Rating	IP 65									
Inverter Topology	Non-Isolated									
Over Voltage Category	OVC II(DC), OVC III(AC)									
Cabinet Size (WxHxD mm)	280×272.5×171.5 (Excluding Connectors and Brackets)									
Weight (kg)	5.6									
Warranty	5 Years									
Type of Cooling	Natural Cooling									
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, G99, VDE-AR-N 4105									
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2									

Single Phase String Inverter

SUN-3.6/4/4.2/4.6/5/5.2/6/6.2K-G05P1-EU-AM2

Efficient

- 2 MPP trackers, Max. efficiency up to 97.5%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

Model	SUN-3.6K-G05 P1-EU-AM2	SUN-4K-G05 P1-EU-AM2	SUN-4.2K-G05 P1-EU-AM2	SUN-4.6K-G05 P1-EU-AM2	SUN-5K-G05 P1-EU-AM2	SUN-5.2K-G05 P1-EU-AM2	SUN-6K-G05 P1-EU-AM2	SUN-6.2K-G05 P1-EU-AM2
PV String Input Data								
Max. PV Input Power (kW)	5.4	6	6.3	6.9	7.5	7.8	9	9.3
Max. PV Input Voltage (V)	550							
Start-up Voltage (V)	80							
MPPT Voltage Range (V)	70-500							
Rated PV Input Voltage (V)	360							
Max. Operating PV Input Current (A)	18+18							
Max. Input Short Circuit Current (A)	27+27							
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1							
AC Output Side								
Rated AC Output Active Power (kW)	3.6	4	4.2	4.6	5	5.2	6	6.2
Max. AC Output Apparent Power (kVA)	3.96	4.4	4.62	5.06	5.5	5.72	6.6	6.82
Rated AC Output Current (A)	16.4/15.7	18.2/17.4	19.1/18.3	21/20	22.8/21.8	23.7/22.7	27.3/26.1	28.2/27
Max. AC Output Current (A)	18/17.3	20/19.2	21/20.1	23/22	25/24	26/24.9	30/28.7	31/29.7
Rated output voltage	220/230 0.85Un-1.1Un L/N/PE							
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65							
Power Factor Adjustment Range	0.8 leading to 0.8 lagging							
Total Current Harmonic Distortion THDi	<3%							
DC Injection Current	<0.5%In							
Efficiency								
Max. Efficiency	97.3%	97.5%						
Euro Efficiency	96.9%	97.0%						
MPPT Efficiency	>99%							
Equipment Protection								
DC Reverse Polarity Protection	Yes							
AC Output Overcurrent Protection	Yes							
AC Output Overvoltage Protection	Yes							
AC Output Short Circuit Protection	Yes							
Thermal Protection	Yes							
Insulation Impedance Detection	Yes							
DC Component Monitoring	Yes							
Arc Fault Circuit Interrupter (AFCI)	Optional							
Anti-islanding Protection	Yes							
Residual Current Detection	Yes							
DC Switch	Yes							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Interface								
LCD/LED Display	LCD1602							
Communication Interface	RS485/RS232 /WiFi/LAN							
General Data								
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating							
Permissible Ambient Humidity	0-100%							
Permissible Altitude	3000m							
Noise (dB)	≤35							
Ingress Protection(IP) Rating	IP 65							
Inverter Topology	Non-Isolated							
Over Voltage Category	OVC II(DC), OVC III(AC)							
Cabinet Size (WxHxD mm)	305×280×180 (Excluding Connectors and Brackets)							
Weight (kg)	7.7							
Warranty	5 Years							
Type of Cooling	Natural Cooling							
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G99, VDE-AR-N 4105							
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							

Single Phase String Inverter

SUN-7/7.5/8K-G02P1-EU-AM2

Efficient

- 2 MPP trackers, Max. efficiency up to 97.7%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

Model	SUN-7K-G02P1-EU-AM2	SUN-7.5K-G02P1-EU-AM2	SUN-8K-G02P1-EU-AM2
PV String Input Data			
Max. PV Input Power (kW)	10.5	11.3	12
Max. PV Input Voltage (V)		550	
Start-up Voltage (V)		80	
MPPT Voltage Range (V)		70-500	
Rated PV Input Voltage (V)		360	
Max. Operating PV Input Current (A)		18+26	
Max. Input Short Circuit Current (A)		27+39	
No. of MPP Trackers/ No. of Strings MPP Tracker		2/1+2	
AC Output Side			
Rated AC Output Active Power (kW)	7	7.5	8
Max. AC Output Apparent Power (kVA)	7.7	8.25	8.8
Rated AC Output Current (A)	31.9/30.5	34.1/32.7	36.4/34.8
Max. AC Output Current (A)	35/33.5	37.5/35.9	40/38.3
Rated output voltage		220/230 0.85Un-1.1Un L/N/PE	
Rated Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65	
Power Factor Adjustment Range		0.8 leading to 0.8 lagging	
Total Current Harmonic Distortion THDi		<3%	
DC Injection Current		<0.5%In	
Efficiency			
Max. Efficiency		97.7%	
Euro Efficiency		97.2%	
MPPT Efficiency		>99%	
Equipment Protection			
DC Reverse Polarity Protection		Yes	
AC Output Overcurrent Protection		Yes	
AC Output Overvoltage Protection		Yes	
AC Output Short Circuit Protection		Yes	
Thermal Protection		Yes	
Insulation Impedance Detection		Yes	
DC Component Monitoring		Yes	
Arc Fault Circuit Interrupter (AFCI)		Optional	
Anti-islanding Protection		Yes	
Residual Current Detection		Yes	
DC Switch		Yes	
Surge Protection Level		TYPE II(DC), TYPE II(AC)	
Interface			
LCD/LED Display		LCD1602	
Communication Interface		RS485/RS232 /WiFi/LAN	
General Data			
Operating Temperature Range (°C)		-25 to +60°C, >45°C Derating	
Permissible Ambient Humidity		0-100%	
Permissible Altitude		3000m	
Noise (dB)		≤35	
Ingress Protection(IP) Rating		IP 65	
Inverter Topology		Non-Isolated	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)		330×310×208.5 (Excluding Connectors and Brackets)	
Weight (kg)		12.1	
Warranty		5 Years	
Type of Cooling		Natural Cooling	
Grid Regulation		IEC 61727, IEC 62116, EN 50549, NRS 097, RD 140, UNE 217002, G99	
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

Single Phase String Inverter

SUN-9/10/10.5K-G02P1-EU-AM2

Efficient

- 2 MPP trackers, Max. efficiency up to 97.7%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)
- Low start-up voltage of 80V

Model	SUN-9K-G02P1-EU-AM2	SUN-10K-G02P1-EU-AM2	SUN-10.5K-G02P1-EU-AM2
PV String Input Data			
Max. PV Input Power (kW)	13.5	15	15.8
Max. PV Input Voltage (V)		550	
Start-up Voltage (V)		80	
MPPT Voltage Range (V)		70-500	
Rated PV Input Voltage (V)		360	
Max. Operating PV Input Current (A)		26+26	
Max. Input Short Circuit Current (A)		39+39	
No. of MPP Trackers/ No. of Strings MPP Tracker		2/2+2	
AC Output Side			
Rated AC Output Active Power (kW)	9	10	10.5
Max. AC Output Apparent Power (kVA)	9.9	11	11.55
Rated AC Output Current (A)	41/39.2	45.5/43.5	47.8/45.7
Max. AC Output Current (A)	45/43.1	50/47.9	52.5/50.3
Rated output voltage		220/230 0.85Un-1.1Un L/N/PE	
Rated Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65	
Power Factor Adjustment Range		0.8 leading to 0.8 lagging	
Total Current Harmonic Distortion THDi		<3%	
DC Injection Current		<0.5%In	
Efficiency			
Max. Efficiency		97.7%	
Euro Efficiency		97.2%	
MPPT Efficiency		>99%	
Equipment Protection			
DC Reverse Polarity Protection		Yes	
AC Output Overcurrent Protection		Yes	
AC Output Overvoltage Protection		Yes	
AC Output Short Circuit Protection		Yes	
Thermal Protection		Yes	
Insulation Impedance Detection		Yes	
DC Component Monitoring		Yes	
Arc Fault Circuit Interrupter (AFCI)		Optional	
Anti-islanding Protection		Yes	
Residual Current Detection		Yes	
DC Switch		Yes	
Surge Protection Level		TYPE II(DC), TYPE II(AC)	
Interface			
LCD/LED Display		LCD1602	
Communication Interface		RS485/RS232 /WiFi/LAN	
General Data			
Operating Temperature Range (°C)		-25 to +60°C, >45°C Derating	
Permissible Ambient Humidity		0-100%	
Permissible Altitude		3000m	
Noise (dB)		≤35	
Ingress Protection(IP) Rating		IP 65	
Inverter Topology		Non-Isolated	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)		330×410×213.5 (Excluding Connectors and Brackets)	
Weight (kg)		14.8	
Warranty		5 Years	
Type of Cooling		Natural Cooling	
Grid Regulation		IEC 61727, IEC 62116, EN 50549, NRS 097, RD 140, UNE 217002, G99	
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

Three Phase String Inverter

SUN-3/4/5/6/7/8/9/10/12/15K-G06P3-EU-BM2-P1

Efficient

- 2 MPP trackers, Max. efficiency up to 98.5%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)

Model	SUN-3K-G06 P3-EU-BM2 -P1	SUN-4K-G06 P3-EU-BM2 -P1	SUN-5K-G06 P3-EU-BM2 -P1	SUN-6K-G06 P3-EU-BM2 -P1	SUN-7K-G06 P3-EU-BM2 -P1	SUN-8K-G06 P3-EU-BM2 -P1	SUN-9K-G06 P3-EU-BM2 -P1	SUN-10K-G06 P3-EU-BM2 -P1	SUN-12K-G06 P3-EU-BM2 -P1	SUN-15K-G06 P3-EU-BM2 -P1
PV String Input Data										
Max. PV Input Power (kW)	4.5	6	7.5	9	10.5	12	13.5	15	18	22.5
Max. PV Input Voltage (V)	1100									
Start-up Voltage (V)	140									
MPPT Voltage Range (V)	120-1000									
Rated PV Input Voltage (V)	600									
Max. Operating PV Input Current (A)	20+20									20+26
Max. Input Short Circuit Current (A)	30+30									30+39
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1									2/1+2
AC Output Side										
Rated AC Output Active Power (kW)	3	4	5	6	7	8	9	10	12	15
Max. AC Output Apparent Power (kVA)	3.3	4.4	5.5	6.6	7.7	8.8	9.9	11	13.2	16.5
Rated AC Output Current (A)	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	10.7/10.2	12.2/11.6	13.7/13.1	15.2/14.5	18.2/17.4	22.8/21.8
Max. AC Output Current (A)	5/4.8	6.7/6.4	8.4/8	10/9.6	11.7/11.2	13.4/12.8	15/14.4	16.7/16	20/19.2	25/24
Rated output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE									
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65									
Power Factor Adjustment Range	0.8 leading to 0.8 lagging									
Total Current Harmonic Distortion THDi	<3%									
DC Injection Current	<0.5%In									
Efficiency										
Max. Efficiency	98.1%		98.2%		98.3%					98.5%
Euro Efficiency	97.5%		97.6%		97.8%					98%
MPPT Efficiency	>99%									
Equipment Protection										
DC Reverse Polarity Protection	Yes									
AC Output Overcurrent Protection	Yes									
AC Output Overvoltage Protection	Yes									
AC Output Short Circuit Protection	Yes									
Thermal Protection	Yes									
Insulation Impedance Detection	Yes									
DC Component Monitoring	Yes									
Arc Fault Circuit Interrupter (AFCI)	Optional									
Anti-islanding Protection	Yes									
Residual Current Detection	Yes									
DC Switch	Yes									
Surge Protection Level	TYPE II(DC), TYPE II(AC)									
Interface										
LCD/LED Display	LCD1602									
Communication Interface	RS485/RS232 /WiFi/LAN									
General Data										
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating									
Permissible Ambient Humidity	0-100%									
Permissible Altitude	4000m									
Noise (dB)	<45									
Ingress Protection(IP) Rating	IP 65									
Inverter Topology	Non-Isolated									
Over Voltage Category	OVC II(DC), OVC III(AC)									
Cabinet Size (WxHxD mm) (Excluding Connectors and Brackets)	283×525×178									283×525×188
Weight (kg)	11.5									12
Warranty	5 Years									
Type of Cooling	Natural Cooling									
Grid Regulation	IEC 61727, IEC 62116, EN 50549									
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2									

Three Phase String Inverter

SUN-18/20/22/23/25K-G05

Efficient

- 2 MPP trackers, Max. efficiency up to 98.5%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)

Model	SUN-18K-G05	SUN-20K-G05	SUN-22K-G05	SUN-23K-G05	SUN-25K-G05
PV String Input Data					
Max. PV Input Power (kW)	23.4	26	28.6	29.9	32.5
Max. PV Input Voltage (V)	1100				
Start-up Voltage (V)	250				
MPPT Voltage Range (V)	200-1000				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	26+26				
Max. Input Short Circuit Current (A)	39+39				
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2				
AC Output Side					
Rated AC Output Active Power (kW)	18	20	22	23	25
Max. AC Output Apparent Power (kVA)	19.8	22	24.2	25.3	27.5
Rated AC Output Current (A)	27.3/26.1	30.3/29	33.4/31.9	34.9/33.4	37.9/36.2
Max. AC Output Current (A)	30/28.7	33.3/31.9	36.7/35.1	38.4/36.7	41.7/39.9
Rated output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Total Current Harmonic Distortion THDi	<3%				
DC Injection Current	<0.5%In				
Efficiency					
Max. Efficiency	98.5%				
Euro Efficiency	98%				
MPPT Efficiency	>99%				
Equipment Protection					
DC Reverse Polarity Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overvoltage Protection	Yes				
AC Output Short Circuit Protection	Yes				
Thermal Protection	Yes				
Insulation Impedance Detection	Yes				
DC Component Monitoring	Yes				
Arc Fault Circuit Interrupter (AFCI)	Optional				
Anti-islanding Protection	Yes				
Residual Current Detection	Yes				
DC Switch	Yes				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD1602				
Communication Interface	RS485/RS232 /WiFi/LAN				
General Data					
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	4000m				
Noise (dB)	≤50				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	362×527×220 (Excluding Connectors and Brackets)				
Weight (kg)	20				
Warranty	5 Years				
Type of Cooling	Intelligent air cooling				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase String Inverter

SUN-30/33/35/36K-G04

Efficient

- 2 MPP trackers, Max. efficiency up to 98.6%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)

Model	SUN-30K-G04	SUN-33K-G04	SUN-35K-G04	SUN-36K-G04
PV String Input Data				
Max. PV Input Power (kW)	45	49.5	52.5	54
Max. PV Input Voltage (V)	1100			
Start-up Voltage (V)	250			
MPPT Voltage Range (V)	200-1000			
Rated PV Input Voltage (V)	600			
Max. Operating PV Input Current (A)	40+40			
Max. Input Short Circuit Current (A)	60+60			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/3+3			
AC Output Side				
Rated AC Output Active Power (kW)	30	33	35	36
Max. AC Output Apparent Power (kVA)	33	36.3	38.5	39.6
Rated AC Output Current (A)	45.5/43.5	50/47.8	53/50.7	54.5/52.2
Max. AC Output Current (A)	50/47.9	55/52.6	58.3/55.8	60/57.4
Rated output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE			
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Total Current Harmonic Distortion THDi	<3%			
DC Injection Current	<0.5%In			
Efficiency				
Max. Efficiency	98.6%			
Euro Efficiency	98.1%			
MPPT Efficiency	>99%			
Equipment Protection				
DC Reverse Polarity Protection	Yes			
AC Output Overcurrent Protection	Yes			
AC Output Overvoltage Protection	Yes			
AC Output Short Circuit Protection	Yes			
Thermal Protection	Yes			
Insulation Impedance Detection	Yes			
DC Component Monitoring	Yes			
Arc Fault Circuit Interrupter (AFCI)	Optional			
Anti-islanding Protection	Yes			
Residual Current Detection	Yes			
DC Switch	Yes			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD1602			
Communication Interface	RS485/RS232 /WiFi/LAN			
General Data				
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	4000m			
Noise (dB)	≤60			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	330×572×206 (Excluding Connectors and Brackets)			
Weight (kg)	28.7			
Warranty	5 Years			
Type of Cooling	Intelligent Air Cooling			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

Three Phase String Inverter

SUN-40/45/50K-G04

Efficient

- Max. 4 MPP trackers, Max. efficiency up to 98.7%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)

Model	SUN-40K-G04	SUN-45K-G04	SUN-50K-G04
PV String Input Data			
Max. PV Input Power (kW)	52	58.5	65
Max. PV Input Voltage (V)	1100		
Start-up Voltage (V)	250		
MPPT Voltage Range (V)	200-1000		
Rated PV Input Voltage (V)	600		
Max. Operating PV Input Current (A)	40+40+40		40+40+40+40
Max. Input Short Circuit Current (A)	60+60+60		60+60+60+60
No. of MPP Trackers/ No. of Strings MPP Tracker	3/3+3+3		4/3+3+3+3
AC Output Side			
Rated AC Output Active Power (kW)	40	45	50
Max. AC Output Apparent Power (kVA)	44	49.5	55
Rated AC Output Current (A)	60.6/58	68.2/65.2	75.8/72.5
Max. AC Output Current (A)	66.7/63.8	75/71.7	83.3/79.7
Rated output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
Efficiency			
Max. Efficiency	98.7%		
Euro Efficiency	98.1%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
DC Component Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Anti-islanding Protection	Yes		
Residual Current Detection	Yes		
DC Switch	Yes		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Interface			
LCD/LED Display	LCD1602		
Communication Interface	RS485/RS232 /WiFi/LAN		
General Data			
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude	4000m		
Noise (dB)	<65		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	434×570×243 (Excluding Connectors and Brackets)		
Weight (kg)	39		
Warranty	5 Years		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

Three Phase String Inverter

SUN-60/70/75/80K-G04P3-EU-AM4

Efficient

- 4 MPP trackers, Max. efficiency up to 98.7%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)
- Type II DC/AC SPD

Model	SUN-60K-G04P3-EU-AM4	SUN-70K-G04P3-EU-AM4	SUN-75K-G04P3-EU-AM4	SUN-80K-G04P3-EU-AM4
PV String Input Data				
Max. PV Input Power (kW)	90	105	112.5	120
Max. PV Input Voltage (V)	1100			
Start-up Voltage (V)	250			
MPPT Voltage Range (V)	200-1000			
Rated PV Input Voltage (V)	600		720	
Max. Operating PV Input Current (A)	40+40+40+40			
Max. Input Short Circuit Current (A)	60+60+60+60			
No. of MPP Trackers/ No. of Strings MPP Tracker	4/3+3+3+3	4/4+4+4+4		
AC Output Side				
Rated AC Output Active Power (kW)	60	70	75	80
Max. AC Output Apparent Power (kVA)	66	77	82.5	88
Rated AC Output Current (A)	90.9/87	106.1/101.5	113.6/108.7	121.2/115.9
Max. AC Output Current (A)	100/95.7	116.7/111.6	125/119.6	133.3/127.5
Rated output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE			
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Total Current Harmonic Distortion THDi	<3%			
DC Injection Current	<0.5%In			
Efficiency				
Max. Efficiency	98.6%	98.7%		
Euro Efficiency	98.0%	98.1%		
MPPT Efficiency	>99%			
Equipment Protection				
DC Reverse Polarity Protection	Yes			
AC Output Overcurrent Protection	Yes			
AC Output Overvoltage Protection	Yes			
AC Output Short Circuit Protection	Yes			
Thermal Protection	Yes			
Insulation Impedance Detection	Yes			
DC Component Monitoring	Yes			
Arc Fault Circuit Interrupter (AFCI)	Optional			
Anti-islanding Protection	Yes			
Residual Current Detection	Yes			
DC Switch	Yes			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD 240 × 160			
Communication Interface	RS485/RS232 /WiFi/LAN			
General Data				
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	4000m			
Noise (dB)	≤55			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	698×613×236.5 (Excluding Connectors and Brackets)			
Weight (kg)	53.7			
Warranty	5 Years			
Type of Cooling	Intelligent Air Cooling			
Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,CEI 0-16,EN 50549 , NRS 097,RD 140,UNE 217002, OVE-Richtlinie R25,G99,VDE-AR-N 4105,VDE-AR-N 4110			
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

Three Phase String Inverter

SUN-70/75/80/90/100/110K-G03

Efficient

- Max. 6 MPP trackers, Max. efficiency up to 98.8%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)
- Type II DC/AC SPD

Model	SUN-70K-G03	SUN-75K-G03	SUN-80K-G03	SUN-90K-G03	SUN-100K-G03	SUN-110K-G03
PV String Input Data						
Max. PV Input Power (kW)	91	97.5	104	135	150	150
Max. PV Input Voltage (V)	1000					
Start-up Voltage (V)	250					
MPPT Voltage Range (V)	200-850					
Rated PV Input Voltage (V)	600					
Max. Operating PV Input Current (A)	40+40+40+40			40+40+40+40+40+40		
Max. Input Short Circuit Current (A)	60+60+60+60			60+60+60+60+60+60		
No. of MPP Trackers/ No. of Strings MPP Tracker	4/4+4+4+4			6/4+4+4+4+4+4		
AC Output Side						
Rated AC Output Active Power (kW)	70	75	80	90	100	110
Max. AC Output Apparent Power (kVA)	77	82.5	88	99	110	121
Rated AC Output Current (A)	106.1/101.5	113.6/108.7	121.2/115.9	136.4/130.4	151.5/144.9	166.7/159.4
Max. AC Output Current (A)	116.7/111.6	125/119.6	133.3/127.5	150/143.5	166.7/159.4	183.3/175.4
Rated output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE					
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Total Current Harmonic Distortion THDi	<3%					
DC Injection Current	<0.5%In					
Efficiency						
Max. Efficiency	98.7%			98.8%		
Euro Efficiency	98.1%			98.2%		
MPPT Efficiency	>99%					
Equipment Protection						
DC Reverse Polarity Protection	Yes					
AC Output Overcurrent Protection	Yes					
AC Output Overvoltage Protection	Yes					
AC Output Short Circuit Protection	Yes					
Thermal Protection	Yes					
Insulation Impedance Detection	Yes					
DC Component Monitoring	Yes					
Arc Fault Circuit Interrupter (AFCI)	Optional					
Anti-islanding Protection	Yes					
Residual Current Detection	Yes					
DC Switch	Yes					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Interface						
LCD/LED Display	LCD 240 × 160					
Communication Interface	RS485/RS232 /WiFi/LAN					
General Data						
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude	4000m					
Noise (dB)	≤55					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (WxHxD mm)	824×516×312.7 (Excluding Connectors and Brackets)					
Weight (kg)	81					
Warranty	5 Years					
Type of Cooling	Intelligent Air Cooling					
Grid Regulation	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11, ANBT NBR 16149, ANBT NBR 16150, EN 50549-1, NC RFG					
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2					

Three Phase String Inverter

SUN-120/125/130/135/136K-G01P3-EU-AM8

Efficient

- 8 MPP trackers, Max. efficiency up to 98.8%

Intelligent

- String intelligent monitoring (optional)

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Reliable

- Anti-PID function (Optional)
- Type II DC/AC SPD

Model	SUN-120K-G01P3-EU-AM8	SUN-125K-G01P3-EU-AM8	SUN-130K-G01P3-EU-AM8	SUN-135K-G01P3-EU-AM8	SUN-136K-G01P3-EU-AM8
PV String Input Data					
Max. PV Input Power (kW)	180	187.5	195	202.5	204
Max. PV Input Voltage (V)	1100				
Start-up Voltage (V)	250				
MPPT Voltage Range (V)	200-1000				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	40+40+40+40+40+40+40+40				
Max. Input Short Circuit Current (A)	60+60+60+60+60+60+60+60				
No. of MPP Trackers/ No. of Strings MPP Tracker	8/4+4+4+4+4+4+4+4				
AC Output Side					
Rated AC Output Active Power (kW)	120	125	130	135	136
Max. AC Output Apparent Power (kVA)	132	135	135	135	136
Rated AC Output Current (A)	181.9/174	189.4/181.2	197/188.5	204.6/195.7	206.1/197.2
Max. AC Output Current (A)	200/191.4	204.6/195.7	204.6/195.7	204.6/195.7	206.1/197.2
Rated output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L/N/PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Total Current Harmonic Distortion THDi	<3%				
DC Injection Current	<0.5%In				
Efficiency					
Max. Efficiency	98.8%				
Euro Efficiency	98.2%				
MPPT Efficiency	>99%				
Equipment Protection					
DC Reverse Polarity Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overvoltage Protection	Yes				
AC Output Short Circuit Protection	Yes				
Thermal Protection	Yes				
Insulation Impedance Detection	Yes				
DC Component Monitoring	Yes				
Arc Fault Circuit Interrupter (AFCI)	Optional				
Anti-islanding Protection	Yes				
Residual Current Detection	Yes				
DC Switch	Yes				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD 240 × 160				
Communication Interface	RS485/RS232 /WiFi/LAN				
General Data					
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	4000m				
Noise (dB)	≤65				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	1006×516×325.5 (Excluding Connectors and Brackets)				
Weight (kg)	103				
Warranty	5 Years				
Type of Cooling	Intelligent Air Cooling				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105, VDE-AR-N 4110				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase String Inverter(LV)

SUN-6/8K-G06P3-EU-BM2-LV-P1

Reliable

- Anti-PID function (Optional)

Intelligent

- String intelligent monitoring (optional)

Efficient

- 2 MPP trackers, Max. efficiency up to 98.3%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Model	SUN-6K-G06P3-EU-BM2-LV-P1	SUN-6K-G06P3-EU-BM2-LV-P1
PV String Input Data		
Max. PV Input Power (kW)	9	12
Max. PV Input Voltage (V)	800	
Start-up Voltage (V)	250	
MPPT Voltage Range (V)	200-700	
Rated PV Input Voltage (V)	500	
Max. Operating PV Input Current (A)	20+20	20+26
Max. Input Short Circuit Current (A)	30+30	30+39
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1	2/1+2
AC Output Side		
Rated AC Output Active Power (kW)	6	8
Max. AC Output Apparent Power (kVA)	6	8
Rated AC Output Current (A)	15.8/15.1	21/20.1
Max. AC Output Current (A)	15.8/15.1	21/20.1
Rated output voltage	127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE	
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	
Total Current Harmonic Distortion THDi	<3%	
DC Injection Current	<0.5%In	
Efficiency		
Max. Efficiency	98.3%	
MPPT Efficiency	>99%	
Equipment Protection		
DC Reverse Polarity Protection	Yes	
AC Output Overcurrent Protection	Yes	
AC Output Overvoltage Protection	Yes	
AC Output Short Circuit Protection	Yes	
Thermal Protection	Yes	
Insulation Impedance Detection	Yes	
DC Component Monitoring	Yes	
Arc Fault Circuit Interrupter (AFCI)	Optional	
Anti-islanding Protection	Yes	
Residual Current Detection	Yes	
DC Switch	Yes	
Surge Protection Level	TYPE II(DC), TYPE II(AC)	
Interface		
LCD/LED Display	LCD1602	
Communication Interface	RS485/RS232 /WiFi/LAN	
General Data		
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating	
Permissible Ambient Humidity	0-100%	
Permissible Altitude	4000m	
Noise (dB)	<45	
Ingress Protection(IP) Rating	IP 65	
Inverter Topology	Non-Isolated	
Over Voltage Category	OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)	283×525×178 (Excluding Connectors and Brackets)	283×525×188 (Excluding Connectors and Brackets)
Weight (kg)	28.7	12
Warranty	5 Years	
Type of Cooling	Natural Cooling	
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140	
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

Three Phase String Inverter(LV)

SUN-10/12/15K-G05-LV

Reliable

- Anti-PID function (Optional)

Intelligent

- String intelligent monitoring (optional)

Efficient

- 2 MPP trackers, Max. efficiency up to 98.5%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Model	SUN-10K-G05-LV	SUN-12K-G05-LV	SUN-15K-G05-LV
PV String Input Data			
Max. PV Input Power (kW)	27	30	31.5
Max. PV Input Voltage (V)		800	
Start-up Voltage (V)		250	
MPPT Voltage Range (V)		200-700	
Rated PV Input Voltage (V)		350	
Max. Operating PV Input Current (A)		26+26	
Max. Input Short Circuit Current (A)		39+39	
No. of MPP Trackers/ No. of Strings MPP Tracker		2/2+2	
AC Output Side			
Rated AC Output Active Power (kW)	10	12	15
Max. AC Output Apparent Power (kVA)	10	12	15
Rated AC Output Current (A)	26.3/25.1	31.5/30.1	39.4/37.6
Max. AC Output Current (A)	26.3/25.1	31.5/30.1	39.4/37.6
Rated output voltage		127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE	
Rated Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65	
Power Factor Adjustment Range		0.8 leading to 0.8 lagging	
Total Current Harmonic Distortion THDi		<3%	
DC Injection Current		<0.5%In	
Efficiency			
Max. Efficiency		98.5%	
MPPT Efficiency		>99%	
Equipment Protection			
DC Reverse Polarity Protection		Yes	
AC Output Overcurrent Protection		Yes	
AC Output Overvoltage Protection		Yes	
AC Output Short Circuit Protection		Yes	
Thermal Protection		Yes	
Insulation Impedance Detection		Yes	
DC Component Monitoring		Yes	
Arc Fault Circuit Interrupter (AFCI)		Optional	
Anti-islanding Protection		Yes	
Residual Current Detection		Yes	
DC Switch		Yes	
Surge Protection Level		TYPE II(DC), TYPE II(AC)	
Interface			
LCD/LED Display		LCD1602	
Communication Interface		RS485/RS232 /WiFi/LAN	
General Data			
Operating Temperature Range (°C)		-25 to +60°C, >45°C Derating	
Permissible Ambient Humidity		0-100%	
Permissible Altitude		4000m	
Noise (dB)		≤50	
Ingress Protection(IP) Rating		IP 65	
Inverter Topology		Non-Isolated	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)		362×527×220 (Excluding Connectors and Brackets)	
Weight (kg)		20	
Warranty		5 Years	
Type of Cooling		Intelligent Air Cooling	
Grid Regulation		NBR 16149, NBR 16150, EN 50549, RD 140	
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

Three Phase String Inverter(LV)

SUN-18/20/21K-G04-LV

Reliable

- Anti-PID function (Optional)

Intelligent

- String intelligent monitoring (optional)

Efficient

- 2 MPP trackers, Max. efficiency up to 98.6%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Model	SUN-18K-G04-LV	SUN-20K-G04-LV	SUN-21K-G04-LV
PV String Input Data			
Max. PV Input Power (kW)	27	30	31.5
Max. PV Input Voltage (V)		800	
Start-up Voltage (V)		250	
MPPT Voltage Range (V)		200-700	
Rated PV Input Voltage (V)		350	
Max. Operating PV Input Current (A)		40+40	
Max. Input Short Circuit Current (A)		60+60	
No. of MPP Trackers/ No. of Strings MPP Tracker		2/3+3	
AC Output Side			
Rated AC Output Active Power (kW)	18	20	21
Max. AC Output Apparent Power (kVA)	18	20	21
Rated AC Output Current (A)	47.3/45.2	52.5/50.2	55.2/52.7
Max. AC Output Current (A)	47.3/45.2	52.5/50.2	55.2/52.7
Rated output voltage		127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE	
Rated Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65	
Power Factor Adjustment Range		0.8 leading to 0.8 lagging	
Total Current Harmonic Distortion THDi		<3%	
DC Injection Current		<0.5%In	
Efficiency			
Max. Efficiency		98.6%	
MPPT Efficiency		>99%	
Equipment Protection			
DC Reverse Polarity Protection		Yes	
AC Output Overcurrent Protection		Yes	
AC Output Overvoltage Protection		Yes	
AC Output Short Circuit Protection		Yes	
Thermal Protection		Yes	
Insulation Impedance Detection		Yes	
DC Component Monitoring		Yes	
Arc Fault Circuit Interrupter (AFCI)		Optional	
Anti-islanding Protection		Yes	
Residual Current Detection		Yes	
DC Switch		Yes	
Surge Protection Level		TYPE II(DC), TYPE II(AC)	
Interface			
LCD/LED Display		LCD1602	
Communication Interface		RS485/RS232 /WiFi/LAN	
General Data			
Operating Temperature Range (°C)		-25 to +60°C, >45°C Derating	
Permissible Ambient Humidity		0-100%	
Permissible Altitude		4000m	
Noise (dB)		≤60	
Ingress Protection(IP) Rating		IP 65	
Inverter Topology		Non-Isolated	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)		330×572×206 (Excluding Connectors and Brackets)	
Weight (kg)		28.7	
Warranty		5 Years	
Type of Cooling		Intelligent Air Cooling	
Grid Regulation		NBR 16149, NBR 16150, EN 50549, RD 140	
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

Three Phase String Inverter(LV)

SUN-23/25/30K-G04-LV

Reliable

- Anti-PID function (Optional)

Intelligent

- String intelligent monitoring (optional)

Efficient

- Max. 4 MPP trackers, Max. efficiency up to 98.7%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Model	SUN-23K-G04-LV	SUN-25K-G04-LV	SUN-30K-G04-LV
PV String Input Data			
Max. PV Input Power (kW)	36.8	40	48
Max. PV Input Voltage (V)		800	
Start-up Voltage (V)		250	
MPPT Voltage Range (V)		200-700	
Rated PV Input Voltage (V)		400	
Max. Operating PV Input Current (A)		40+40+40	40+40+40+40
Max. Input Short Circuit Current (A)		60+60+60	60+60+60+60
No. of MPP Trackers/ No. of Strings MPP Tracker		3/3+3+3	4/3+3+3+3
AC Output Side			
Rated AC Output Active Power (kW)	23	25	30
Max. AC Output Apparent Power (kVA)	23	25	30
Rated AC Output Current (A)	60.4/57.7	65.7/62.7	78.8/75.2
Max. AC Output Current (A)	60.4/57.7	65.7/62.7	78.8/75.2
Rated output voltage	127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
Efficiency			
Max. Efficiency	98.7%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
DC Component Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Anti-islanding Protection	Yes		
Residual Current Detection	Yes		
DC Switch	Yes		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Interface			
LCD/LED Display	LCD1602		
Communication Interface	RS485/RS232 /WiFi/LAN		
General Data			
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude	4000m		
Noise (dB)	<65		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	434×570×243 (Excluding Connectors and Brackets)		
Weight (kg)	39		
Warranty	5 Years		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

Three Phase String Inverter(LV)

SUN-33/35/40/45/50K-G04P3-EU-AM4-LV

Reliable

- Anti-PID function (Optional)

Intelligent

- String intelligent monitoring (optional)

Efficient

- 4 MPP trackers, Max. efficiency up to 98.7%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system

Adaptive

- Zero export application, VSG application
- Wide output voltage range

Model	SUN-33K-G04P3 -EU-AM4-LV	SUN-35K-G04P3 -EU-AM4-LV	SUN-40K-G04P3 -EU-AM4-LV	SUN-45K-G04P3 -EU-AM4-LV	SUN-50K-G04P3 -EU-AM4-LV
PV String Input Data					
Max. PV Input Power (kW)	49.5	52.5	60	67.5	75
Max. PV Input Voltage (V)	800				
Start-up Voltage (V)	250				
MPPT Voltage Range (V)	200-700				
Rated PV Input Voltage (V)	500				
Max. Operating PV Input Current (A)	40+40+40+40				
Max. Input Short Circuit Current (A)	60+60+60+60				
No. of MPP Trackers/ No. of Strings MPP Tracker	4/3+3+3+3		4/4+4+4+4		
AC Output Side					
Rated AC Output Active Power (kW)	33	35	40	45	50
Max. AC Output Apparent Power (kVA)	33	35	40	45	50
Rated AC Output Current (A)	86.7/82.8	91.9/87.8	105/100.3	118.2/112.8	131.3/125.4
Max. AC Output Current (A)	86.7/82.8	91.9/87.8	105/100.3	118.2/112.8	131.3/125.4
Rated output voltage	127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Total Current Harmonic Distortion THDi	<3%				
DC Injection Current	<0.5%In				
Efficiency					
Max. Efficiency	98.6%		98.7%		
MPPT Efficiency	>99%				
Equipment Protection					
DC Reverse Polarity Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overvoltage Protection	Yes				
AC Output Short Circuit Protection	Yes				
Thermal Protection	Yes				
Insulation Impedance Detection	Yes				
DC Component Monitoring	Yes				
Arc Fault Circuit Interrupter (AFCI)	Optional				
Anti-islanding Protection	Yes				
Residual Current Detection	Yes				
DC Switch	Yes				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD 240 × 160				
Communication Interface	RS485/RS232 /WiFi/LAN				
General Data					
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	4000m				
Noise (dB)	≤55				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	698×613×236.5 (Excluding Connectors and Brackets)				
Weight (kg)	53.7				
Warranty	5 Years				
Type of Cooling	Intelligent Air Cooling				
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase String Inverter(LV)

SUN-60/70/75K-G01P3-EU-AM8-LV

Reliable

- Anti-PID function (Optional)

Intelligent

- String intelligent monitoring (optional)

Efficient

- 8 MPP trackers, Max. efficiency up to 98.7%
- 127V/220V, 133V/230V and 50/60Hz, Three phase system

Adaptive

- Zero export application, VSG application
- Wide output voltage range

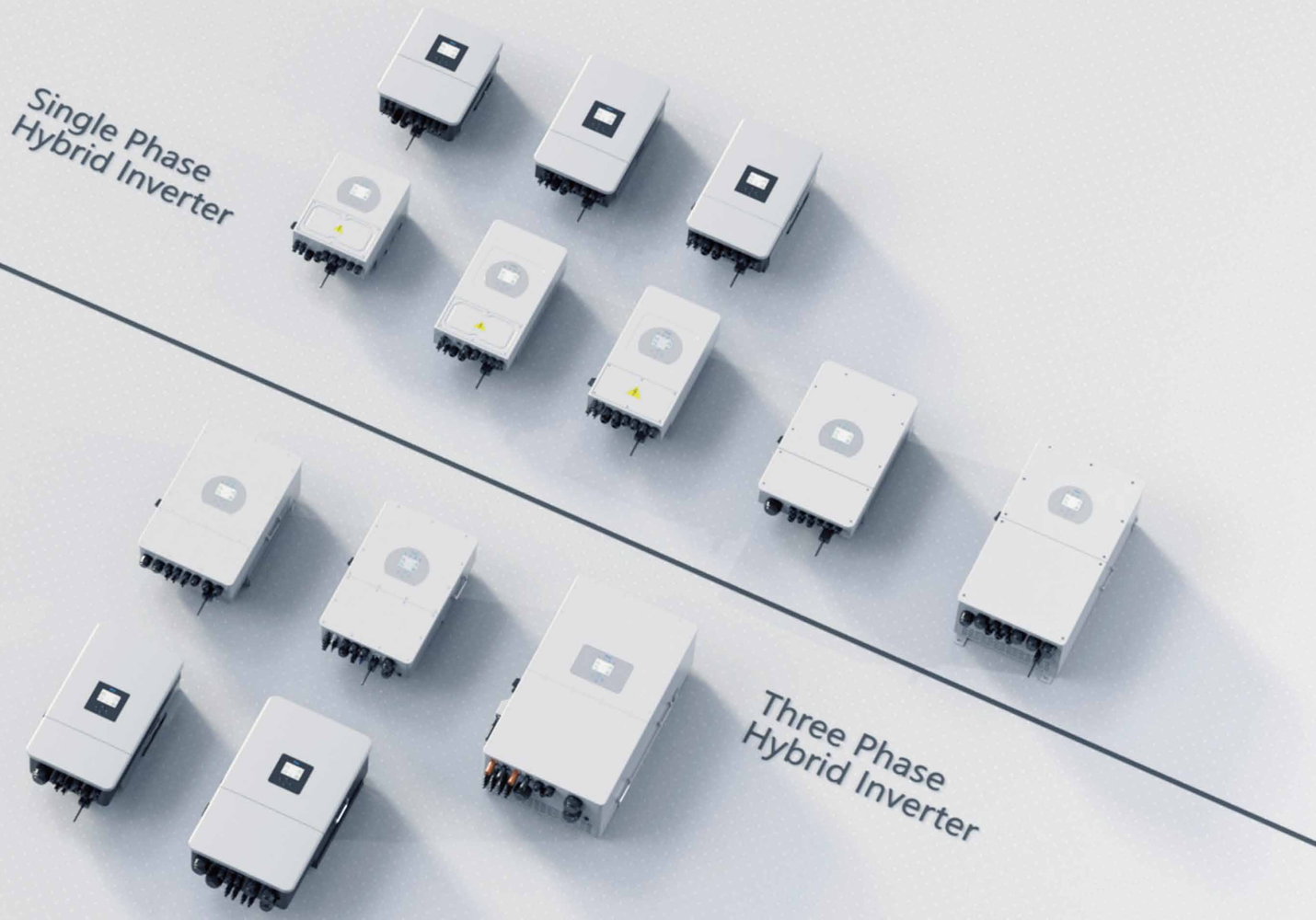
Model	SUN-60K-G01P3-EU-AM8-LV	SUN-70K-G01P3-EU-AM8-LV	SUN-75K-G01P3-EU-AM8-LV
PV String Input Data			
Max. PV Input Power (kW)	90	105	112.5
Max. PV Input Voltage (V)	800		
Start-up Voltage (V)	250		
MPPT Voltage Range (V)	200-700		
Rated PV Input Voltage (V)	500		
Max. Operating PV Input Current (A)	40+40+40+40+40+40+40+40		
Max. Input Short Circuit Current (A)	60+60+60+60+60+60+60+60		
No. of MPP Trackers/ No. of Strings MPP Tracker	8/4+4+4+4+4+4+4+4		
AC Output Side			
Rated AC Output Active Power (kW)	60	70	75
Max. AC Output Apparent Power (kVA)	60	70	75
Rated AC Output Current (A)	157.5/150.4	183.8/175.5	196.9/188
Max. AC Output Current (A)	157.5/150.4	183.8/175.5	196.9/188
Rated output voltage	127V/220V, 133V/230V 0.85Un-1.1Un 3L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
Efficiency			
Max. Efficiency	98.7%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
DC Component Monitoring	Yes		
Arc Fault Circuit Interrupter (AFCI)	Optional		
Anti-islanding Protection	Yes		
Residual Current Detection	Yes		
DC Switch	Yes		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Interface			
LCD/LED Display	LCD 240 × 160		
Communication Interface	RS485/RS232 /WiFi/LAN		
General Data			
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude	4000m		
Noise (dB)	≤55		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	1006×516×325.5 (Excluding Connectors and Brackets)		
Weight (kg)	103		
Warranty	5 Years		
Type of Cooling	Intelligent Air Cooling		
Grid Regulation	NBR 16149, NBR 16150, EN 50549, RD 140		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

02

HYBRID INVERTER

Deye hybrid inverter 3-125kW

Deye's hybrid inverters are globally recognized, commanding a leading market share in countries such as South Africa. They provide accessible, highly reliable, and sustainable energy solutions for users in areas with weak grid infrastructure or high electricity costs. These solutions address various needs, including residential to commercial energy storage applications.



Off-Grid Inverter

SUN-3K-OG03LP1-24-EU-AM1

SUN-3/3.6/4/5/6/6.6K-OG03LP1-EU-AM1/AM2

2× PV Oversizing
Higher Energy Yield

18A+18A PV Input
Support High-Power PV Modules

200% Peak Output
Reliable High-Power Startup

Max. 140A Charge/ Discharge Current
Proven Reliability

4ms Ultra-Fast Switching
Seamless Power for Sensitive Loads

97.6% Conversion Efficiency
Low Charge/Discharge Losses

Max. 16 Units in Parallel
Easily Build a Larger-Scale Off-Grid System

Faster Payback
Reduce Electricity Costs

Lightweight Design
Easy to Install

Noise<46 dB
Ensure Quiet Operation

IP65 Protection Rating
Dust and Water Resistant

Deye Cloud
Remote Monitoring & Configuration

Model	SUN-3K-OG03 LP1-24-EU-AM1	SUN-3K-OG03 LP1-EU-AM1	SUN-3.6K-OG03 LP1-EU-AM1	SUN-4K-OG03 LP1-EU-AM1	SUN-5K-OG03 LP1-EU-AM2	SUN-6K-OG03 LP1-EU-AM2	SUN-6.6K-OG03 LP1-EU-AM2
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	20-30	40-60					
Max. Charging/Discharging Current (A)	135	70	90	95	120	135	140
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV access power (W)	6000		7200	8000	10000	12000	13200
Max. PV Input Power (W)	4800		5760	6400	8000	9600	10560
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	18				18+18		
Max. Input Short-Circuit Current (A)	27				27+27		
No. of MPP Trackers/No. of Strings MPP Tracker	1/1				2/1+1		
AC Output Data							
Rated AC Output Power (VA/W)	3000		3600	4000	5000	6000	6600
Max. AC Output Power (VA/W)	3000		3600	4000	5000	6000	6600
Max. AC Output Current (A)	13.1		15.7	17.4	21.8	26.1	28.7
Rated AC Output Current (A)	13.1		15.7	17.4	21.8	26.1	28.7
Peak Power (W)	2 times of rated power, 10s						
Rated output voltage	230 L+N+PE						
Rated Output Frequency	50Hz/60Hz						
Output Voltage Waveform	Pure Sine Wave						
Total Current Harmonic Distortion THDi	<3%						
AC Input Data (Grid and Generator)							
Max. Input Power to Battery (W)	3000		3600	4000	5000	6000	6600
Rated Input Voltage	230						
Rated Input Frequency	50Hz/60Hz						
Grid Input Current (A)	35						
Generator Input Current (A)	35						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Insulation Impedance Detection						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
LCD/LED Display	LCD						
Communication Interface	WIFI,RS485,CAN						
General Data							
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	3000m						
Noise (dB)	<46						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated (solar), Isolated (battery)						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	323×424×176 (Excluding Connectors and Brackets						
Weight (kg)	8.6						
Type of Cooling	Intelligent Air Cooling						
Warranty	Standard 5 years, extendable warranty						
Safety EMC/Standard	IEC62109-1/-2, EN61000-6-1,EN61000-6-2,EN61000-6-3,EN61000-6-4						

Single Phase Hybrid Inverter

SUN-3K-SG04LP1-24-EU
SUN-3/3.6/5/6K-SG04LP1-EU

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 140A
- Support storing energy from diesel generator

Model	SUN-3K -SG04LP1-24-EU	SUN-3K -SG04LP1-EU	SUN-3.6K -SG04LP1-EU	SUN-5K -SG04LP1-EU	SUN-6K -SG04LP1-EU
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	20-30	40-60			
Max. Charging/Discharging Current (A)	140	70	90	120	135
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	6000		7200	10000	12000
Max. PV Input Power (W)	4800		5760	8000	9600
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	18		18+18		
Max. Input Short-Circuit Current (A)	27		27+27		
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1		2/1+1		
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	3000		3600	5000	6000
Max. AC Input/Output Apparent Power (VA)	3300		3960	5000	6600
Rated AC Input/Output Current (A)	13.6/13		16.4/15.7	22.7/21.7	27.3/26.1
Max. AC Input/Output Current (A)	15/14.3		18/17.2*	25/23.9	30/28.7
Max. Continuous AC Passthrough (grid to load) (A)	35				40
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI, RS485, CAN				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise (dB)	<45				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated (solar), Isolated (battery)				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	330×433×228 (Excluding Connectors and Brackets)				
Weight (kg)	17				
Type of Cooling	Natural Cooling				Intelligent Air Cooling
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

*For the SUN-3.6K-SG04LP1-EU, the maximum output current will be capped at 15.7A to comply with the G98 standard.

Single Phase Hybrid Inverter

SUN-3K-SG04LP1-24-EU-SM1 SUN-3K-SG04LP1-EU-SM1
SUN-3.6/5/6K-SG04LP1-EU-SM2

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 140A
- Support storing energy from diesel generator

Model	SUN-3K-SG04LP1-24-EU-SM1	SUN-3K-SG04LP1-EU-SM1	SUN-3.6K-SG04LP1-EU-SM2	SUN-5K-SG04LP1-EU-SM2	SUN-6K-SG04LP1-EU-SM2
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	20-30	40-60			
Max. Charging/Discharging Current (A)	140	70	90	120	135
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	6000		7200	10000	12000
Max. PV Input Power (W)	4800		5760	8000	9600
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	18		18+18		
Max. Input Short-Circuit Current (A)	27		27+27		
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1		2/1+1		
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	3000		3600	5000	6000
Max. AC Input/Output Apparent Power (VA)	3300		3960	5500	6600
Rated AC Input/Output Current (A)	13.7/13.1		16.4/15.7	22.8/21.8	27.3/26.1
Max. AC Input/Output Current (A)	15/14.4		18/17.3*	25/24	30/28.7
Max. Continuous AC Passthrough (grid to load) (A)	35				40
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/230V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI,RS485,CAN				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise (dB)	<45				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated (solar), Isolated (battery)				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	376×470×241.5 (Excluding Connectors and Brackets)				
Weight (kg)	17.6			19	
Type of Cooling	Natural Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

*For the SUN-3.6K-SG04LP1-EU-SM2, the maximum output current will be capped at 15.7A to comply with the G98 standard.

Single Phase Hybrid Inverter

SUN-3K-SG06LP1-24-EU-BM1 SUN-3K-SG06LP1-EU-BM1
SUN-3.6/4/4.6/5/6K-SG06LP1-EU-BM2

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 210A
- Support storing energy from diesel generator

Model	SUN-3K-SG06 LP1-24-EU-BM1	SUN-3K-SG06 LP1-EU-BM1	SUN-3.6K-SG06 LP1-EU-BM2	SUN-4K-SG06 LP1-EU-BM2	SUN-4.6K-SG06 LP1-EU-BM2	SUN-5K-SG06 LP1-EU-BM2	SUN-6K-SG06 LP1-EU-BM2
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	20-30	40-60					
Max. Charging/Discharging Current (A)	140	70	90	95	120	120	135
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV access power (W)	6000	6000	7200	8000	9200	10000	12000
Max. PV Input Power (W)	4800	4800	5760	6400	7360	8000	9600
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	18		18+18				
Max. Input Short-Circuit Current (A)	27		27+27				
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1		2/1+1				
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3000	3000	3600	4000	4600	5000	6000
Max. AC Input/Output Apparent Power (VA)	3300	3300	3960	4400	4600	5500	6600
Rated AC Input/Output Current (A)	13.7/13.1	13.7/13.1	16.4/15.7	18.2/17.4	21/20	22.8/21.8	27.3/26.1
Max. AC Input/Output Current (A)	15/14.4	15/14.4	18/17.3	20/19.2	21/20	25.0/24.0	30/28.7
Max. Continuous AC Passthrough (grid to load) (A)	50						
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
LCD/LED Display	LCD						
Communication Interface	WIFI, RS485, CAN						
General Data							
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise (dB)	<45						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated (solar), Isolated (battery)						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	310×460×218 (Excluding Connectors and Brackets)						
Weight (kg)	15.6						
Type of Cooling	Natural Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						

Single Phase Hybrid Inverter

SUN-3.6/5/6/7/7.6/8/10K-SG05LP1-EU

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 210A
- Support storing energy from diesel generator

Model	SUN-3.6K-SG05LP1-EU	SUN-5K-SG05LP1-EU	SUN-6K-SG05LP1-EU	SUN-7K-SG05LP1-EU	SUN-7.6K-SG05LP1-EU	SUN-8K-SG05LP1-EU	SUN-10K-SG05LP1-EU
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging/Discharging Current (A)	90	120	135	175	190	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV access power (W)	7200	10000	12000	14000	15200	16000	20000
Max. PV Input Power (W)	5760	8000	9600	11200	12160	12800	16000
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	13+13			26+26			
Max. Input Short-Circuit Current (A)	17+17			34+34			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+2			
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3600	5000	6000	7000	7600	8000	10000
Max. AC Input/Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800	11000
Rated AC Input/Output Current (A)	16.4/15.7	22.7/21.7	27.3/26.1	31.9/30.5	34.5/33	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	18/17.2	25/23.9	30/28.7	35/33.5	38/36.3	40/38.3	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	35		40	50			
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated input/output voltage	220/230V 0.85Un-1.1Un 3L+N+PE						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
LCD/LED Display	LCD						
Communication Interface	WIFI,RS485,CAN						
General Data							
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise (dB)	<45						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated (solar), Isolated (battery)						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	330×580×232 (Excluding Connectors and Brackets)						
Weight (kg)	24.9						
Type of Cooling	Intelligent Air Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						

Single Phase Hybrid Inverter

SUN-3.6/5/6/7/7.6/8/10K-SG05LP1-EU-AM2-P

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 210A
- Support storing energy from diesel generator

Model	SUN-3.6K-SG05 LP1-EU-AM2-P	SUN-5K-SG05 LP1-EU-AM2-P	SUN-6K-SG05 LP1-EU-AM2-P	SUN-7K-SG05 LP1-EU-AM2-P	SUN-7.6K-SG05 LP1-EU-AM2-P	SUN-8K-SG05 LP1-EU-AM2-P	SUN-10K-SG05 LP1-EU-AM2-P
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging/Discharging Current (A)	90	120	135	175	190	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV access power (W)	7200	10000	12000	14000	15200	16000	20000
Max. PV Input Power (W)	5760	8000	9600	11200	12160	12800	16000
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	18+18			32+32			
Max. Input Short-Circuit Current (A)	27+27			48+48			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+2			
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3600	5000	6000	7000	7600	8000	10000
Max. AC Input/Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800	11000
Rated AC Input/Output Current (A)	16.4/15.7	22.7/21.7	27.3/26.1	31.9/30.5	34.5/33	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	18/17.2	25/23.9	30/28.7	35/33.5	38/36.3	40/38.3	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	35		40	50			
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
LCD/LED Display	LCD						
Communication Interface	WIFI,RS485,CAN						
General Data							
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise (dB)	<45						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated (solar), Isolated (battery)						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	330×580×232 (Excluding Connectors and Brackets)						
Weight (kg)	24.9						
Type of Cooling	Intelligent Air Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						

Single Phase Hybrid Inverter

SUN-7/7.6/8/10K-SG05LP1-EU-SM2

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 210A
- Support storing energy from diesel generator

Model	SUN-7K-SG05LP1 -EU-SM2	SUN-7.6K-SG05LP1 -EU-SM2	SUN-8K-SG05LP1 -EU-SM2	SUN-10K-SG05LP1 -EU-SM2
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging/Discharging Current (A)	175	190	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV access power (W)	14000	15200	16000	20000
Max. PV Input Power (W)	11200	12160	12800	16000
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	26+26			
Max. Input Short-Circuit Current (A)	34+34			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	7000	7600	8000	10000
Max. AC Input/Output Apparent Power (VA)	7700	8360	8800	11000
Rated AC Input/Output Current (A)	31.9/30.5	34.6/33.1	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	35/33.5	38/36.4	40/38.3	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	50			
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD			
Communication Interface	WIFI,RS485,CAN			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	<45			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated (solar), Isolated (battery)			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	366×589.5×237 (Excluding Connectors and Brackets)			
Weight (kg)	26.8			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

Single Phase Hybrid Inverter

SUN-3.6/5/6/7/7.6/8/10K-SG05LP1-EU-SM2-P

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 210A
- Support storing energy from diesel generator

Model	SUN-3.6K-SG05 LP1-EU-SM2-P	SUN-5K-SG05 LP1-EU-SM2-P	SUN-6K-SG05 LP1-EU-SM2-P	SUN-7K-SG05 LP1-EU-SM2-P	SUN-7.6K-SG05 LP1-EU-SM2-P	SUN-8K-SG05 LP1-EU-SM2-P	SUN-10K-SG05 LP1-EU-SM2-P
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging/Discharging Current (A)	90	120	135	175	190	190	210
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV access power (W)	7200	10000	12000	14000	15200	16000	20000
Max. PV Input Power (W)	5760	8000	9600	11200	12160	12800	16000
Max. PV Input Voltage (V)	500						
Start-up Voltage (V)	125						
MPPT Voltage Range (V)	150-425						
Rated PV Input Voltage (V)	370						
Max. Operating PV Input Current (A)	18+18			32+32			
Max. Input Short-Circuit Current (A)	27+27			48+48			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+2			
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3600	5000	6000	7000	7600	8000	10000
Max. AC Input/Output Apparent Power (VA)	3960	5500	6600	7700	8360	8800	11000
Rated AC Input/Output Current (A)	16.4/15.7	22.7/21.7	27.3/26.1	31.9/30.5	34.6/33.1	36.4/34.8	45.5/43.5
Max. AC Input/Output Current (A)	18/17.2	25/24	30/28.7	35/33.5	38/36.3	40/38.3	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)	35		40	50			
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	96.5%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
LCD/LED Display	LCD						
Communication Interface	WIFI,RS485,CAN						
General Data							
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	2000m						
Noise (dB)	<45						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated (solar), Isolated (battery)						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	366×589.5×237 (Excluding Connectors and Brackets)						
Weight (kg)	26.8						
Type of Cooling	Intelligent Air Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						

Single Phase Hybrid Inverter

SUN-7/7.6/8/10/12K-SG06LP1-EU-BM3

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 250A
- Support storing energy from diesel generator

Model	SUN-7K-SG06 LP1-EU-BM3	SUN-7.6K-SG06 LP1-EU-BM3	SUN-8K-SG06 LP1-EU-BM3	SUN-10K-SG06 LP1-EU-BM3	SUN-12K-SG06 LP1-EU-BM3
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging/Discharging Current (A)	175	185	185	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	14000	15200	16000	20000	24000
Max. PV Input Power (W)	11200	12160	12800	16000	19200
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	36+18+18				36+36+18
Max. Input Short-Circuit Current (A)	54+27+27				54+54+27
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+1+1				3/2+2+1
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	7000	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	7700	8360	8800	11000	13200
Rated AC Input/Output Current (A)	31.9/30.5	34.6/33.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current (A)	35.0/33.5	38/36.4	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough (grid to load) (A)	70				
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI, RS485, CAN				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	<45				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated (solar), Isolated (battery)				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	340×580×227 (Excluding Connectors and Brackets)				
Weight (kg)	23.7			24.5	
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Split Phase Hybrid Inverter

SUN-5/6/8K-SG05LP2-US-SM2
SUN-10/12K-SG05LP2-US-SM3

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 250A
- Support storing energy from diesel generator

Model	SUN-5K-SG05 LP2-US-SM2	SUN-6K-SG05 LP2-US-SM2	SUN-8K-SG05 LP2-US-SM2	SUN-10K-SG05 LP2-US-SM3	SUN-12K-SG05 LP2-US-SM3
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging/Discharging Current (A)	120	135	190	220	220
Rated Battery power（W）	120	135	190	220	220
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	2				
PV String Input Data					
Max. PV Input Power (W)	5000	6000	8000	10000	10000
Max. PV Input Voltage (V)	500				
Start-up Voltage (V)	125				
MPPT Voltage Range (V)	150-425				
Rated PV Input Voltage (V)	370				
Max. Operating PV Input Current (A)	18+18		32+32	32+32+32	
Max. Input Short-Circuit Current (A)	27+27		60+60	60+60+60	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1		2/2+2	3/2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	5000	6000	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	5000	6000	8000	10000	12000
Rated AC Input/Output Current (A)	20.9	25	33.4	41.7	50
Max. AC Input/Output Current (A)	20.9	25	33.4	41.7	50
Max. Continuous AC Passthrough (grid to load) (A)	100				
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	120/240, 120/208 0.88Un＜U＜1.1Un 2L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	RS485/RS232/CAN				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	<45				
Ingress Protection(IP) Rating	TYPE 3R				
Inverter Topology	Non-Isolated (solar), Isolated (battery)				
Over Voltage Category	OVC II(DC), OVC IV(AC)				
Cabinet Size (WxHxD mm)	386×606.5×240 (Excluding Connectors and Brackets)				
Weight (kg)	29.2				
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEEE 1547.1, SRD V2.0				
Safety EMC/Standard	FCC, UL 1741				

Split Phase Hybrid Inverter

SUN-5/6/7.6/8K-SG02LP2-US-AM2
SUN-10/12K-SG02LP2-US-AM3

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 250A
- Support storing energy from diesel generator

Model	SUN-5K-SG02 LP2-US-AM2	SUN-6K-SG02 LP2-US-AM2	SUN-7.6K-SG02 LP2-US-AM2	SUN-8K-SG02 LP2-US-AM2	SUN-10K-SG02 LP2-US-AM3	SUN-12K-SG02 LP2-US-AM3
Battery Input Data						
Battery Type	Lead-acid or Lithium-ion					
Battery Voltage Range (V)	40-60					
Max. Charging/Discharging Current (A)	120	135	190	190	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS					
Number of Battery Input	1					
PV String Input Data						
Max. PV Input Power (W)	7500	9000	11400	12000	15000	18000
Max. PV Input Voltage (V)	500					
Start-up Voltage (V)	125					
MPPT Voltage Range (V)	150-425					
Rated PV Input Voltage (V)	370					
Max. Operating PV Input Current (A)	20+20		26+26		26+26+26	
Max. Input Short-Circuit Current (A)	44+44		44+44		44+44+44	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2				3/2+2+2	
AC Input/Output Data						
Rated AC Input/Output Active Power (W)	5000	6000	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	5000	6000	7600	8000	10000	12000
Rated AC Input/Output Current (A)	20.9	25	31.7	33.4	41.7	50
Max. AC Input/Output Current (A)	20.9	25	31.7	33.4	41.7	50
Max. Continuous AC Passthrough (grid to load) (A)	35	40	50		60	
Peak Power (off-grid) (W)	2 times of rated power, 10s					
Power Factor Adjustment Range	0.8 leading to 0.8 lagging					
Rated input/output voltage	120/240,120/208 0.88Un< U< 1.1Un 2L+N+PE					
Rated Input/Output Grid Frequency/Range(Hz)	60/55-65					
Total Current Harmonic Distortion THDi	<3% (of nominal power)					
DC Injection Current	<0.5% In					
Efficiency						
Max. Efficiency	97.6%					
Euro Efficiency	96.5%					
MPPT Efficiency	>99%					
Equipment Protection						
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Interface						
LCD/LED Display	LCD					
Communication Interface	WIFI,RS485					
General Data						
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude	2000m					
Noise (dB)	<45					
Ingress Protection(IP) Rating	TYPE3R					
Inverter Topology	Non-Isolated (solar), Isolated (battery)					
Over Voltage Category	OVC II(DC),OVC IV(AC)					
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Connectors and Brackets)					
Weight (kg)	35.6					
Type of Cooling	Intelligent Air Cooling					
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy					
Grid Regulation	IEEE 1547.1, SRD V2.0					
Safety EMC/Standard	FCC, UL 1741					

Single Phase Hybrid Inverter

SUN-7.6/8K-SG02LP1-EU-AM2
SUN-10/12K-SG02LP1-EU-AM3

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 250A
- Support storing energy from diesel generator

Model	SUN-7.6K-SG02 LP1-EU-AM2	SUN-8K-SG02 LP1-EU-AM2	SUN-10K-SG02 LP1-EU-AM3	SUN-12K-SG02 LP1-EU-AM3
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging/Discharging Current (A)	190	190	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV access power (W)	15200	16000	20000	24000
Max. PV Input Power (W)	12160	12800	16000	19200
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	26+26		26+26+26	
Max. Input Short-Circuit Current (A)	44+44		44+44+44	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2		3/2+2+2	
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	8360	8800	11000	13200
Rated AC Input/Output Current (A)	34.6/33.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current (A)	38/36.4	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough (grid to load) (A)	50		60	
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD			
Communication Interface	WIFI, RS485, CAN			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	<45			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated (solar), Isolated (battery)			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Connectors and Brackets)			
Weight (kg)	35.6			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

Single Phase Hybrid Inverter

SUN-7.6/8K-SG02LP1-EU-AM2-P
SUN-10/12K-SG02LP1-EU-AM3-P

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 250A
- Support storing energy from diesel generator

Model	SUN-7.6K-SG02 LP1-EU-AM2-P	SUN-8K-SG02 LP1-EU-AM2-P	SUN-10K-SG02 LP1-EU-AM3-P	SUN-12K-SG02 LP1-EU-AM3-P
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging/Discharging Current (A)	190	190	220	250
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV access power (W)	15200	16000	20000	24000
Max. PV Input Power (W)	12160	12800	16000	19200
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	32+32		32+32+32	
Max. Input Short-Circuit Current (A)	60+60		60+60+60	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2		3/2+2+2	
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	7600	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	8360	8800	11000	13200
Rated AC Input/Output Current (A)	34.6/33.1	36.4/34.8	45.5/43.5	54.6/52.2
Max. AC Input/Output Current (A)	38/36.4	40/38.3	50/47.9	60/57.4
Max. Continuous AC Passthrough (grid to load) (A)	50		60	
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD			
Communication Interface	WIFI, RS485, CAN			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	<45			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated (solar), Isolated (battery)			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	420×670×233 (Excluding Connectors and Brackets)			
Weight (kg)	35.6			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

Single Phase Hybrid Inverter

SUN-12/14/16K-SG01LP1-EU

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 290A
- Support storing energy from diesel generator

Model	SUN-12K-SG01LP1-EU	SUN-14K-SG01LP1-EU	SUN-16K-SG01LP1-EU
Battery Input Data			
Battery Type		Lead-acid or Lithium-ion	
Battery Voltage Range (V)		40-60	
Max. Charging/Discharging Current (A)	220	250	290
Charging Strategy for Li-ion Battery		Self-adaption to BMS	
Number of Battery Input		2	
PV String Input Data			
Max. PV access power (W)	24000	28000	32000
Max. PV Input Power (W)	19200	22400	25600
Max. PV Input Voltage (V)		500	
Start-up Voltage (V)		125	
MPPT Voltage Range (V)		150-425	
Rated PV Input Voltage (V)		370	
Max. Operating PV Input Current (A)		26+26+26	
Max. Input Short-Circuit Current (A)		44+44+44	
No. of MPP Trackers/ No. of Strings MPP Tracker		3/2+2+2	
AC Input/Output Data			
Rated AC Input/Output Active Power (W)	12000	14000	16000
Max. AC Input/Output Apparent Power (VA)	13200	15400	17600
Rated AC Input/Output Current (A)	54.5/52.2	63.6/60.9	72.7/69.6
Max. AC Input/Output Current (A)	60/57.4	70/67	80/76.5
Max. Continuous AC Passthrough (grid to load) (A)		100	
Peak Power (off-grid) (W)		2 times of rated power, 10s	
Power Factor Adjustment Range		0.8 leading to 0.8 lagging	
Rated input/output voltage		220/230V 0.85Un-1.1Un L+N+PE	
Rated Input/Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65	
Total Current Harmonic Distortion THDi		<3% (of nominal power)	
DC Injection Current		<0.5% In	
Efficiency			
Max. Efficiency		97.6%	
Euro Efficiency		96.5%	
MPPT Efficiency		>99%	
Equipment Protection			
Integrated		DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection	
Surge Protection Level		TYPE II(DC), TYPE II(AC)	
Interface			
LCD/LED Display		LCD	
Communication Interface		WIFI, RS485, CAN	
General Data			
Operating Temperature Range (°C)		-40 to +60°C, >45°C Derating	
Permissible Ambient Humidity		0-100%	
Permissible Altitude		2000m	
Noise (dB)		<50	
Ingress Protection(IP) Rating		IP 65	
Inverter Topology		Non-Isolated (solar), Isolated (battery)	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)		464×763×282 (Excluding Connectors and Brackets)	
Weight (kg)		52	
Type of Cooling		Intelligent Air Cooling	
Warranty		5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy	
Grid Regulation		IEC 61727,IEC 62116,NRS 097	
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

Single Phase Hybrid Inverter

SUN-12/14/16/18K-SG01LP1-EU-AM3-P

Intuitive

- Colorful touch LCD, IP65 protection degree

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 16 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 380A
- Support storing energy from diesel generator

Model	SUN-12K-SG01LP1 -EU-AM3-P	SUN-14K-SG01LP1 -EU-AM3-P	SUN-16K-SG01LP1 -EU-AM3-P	SUN-18K-SG01LP1 -EU-AM3-P
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging/Discharging Current (A)	220	250	290	380
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	2			
PV String Input Data				
Max. PV access power (W)	24000	28000	32000	36000
Max. PV Input Power (W)	19200	22400	25600	28800
Max. PV Input Voltage (V)	500			
Start-up Voltage (V)	125			
MPPT Voltage Range (V)	150-425			
Rated PV Input Voltage (V)	370			
Max. Operating PV Input Current (A)	36+36+36			
Max. Input Short-Circuit Current (A)	54+54+54			
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	12000	14000	16000	18000
Max. AC Input/Output Apparent Power (VA)	13200	15400	17600	19800
Rated AC Input/Output Current (A)	54.6/52.2	63.7/60.9	72.8/69.6	81.9/78.3
Max. AC Input/Output Current (A)	60/57.4	70/67	80/76.6	90/86.1
Max. Continuous AC Passthrough (grid to load) (A)	100			200
Peak Power (off-grid) (W)	2 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	220/230V 0.85Un-1.1Un L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD			
Communication Interface	WIFI, RS485, CAN			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	3000m			
Noise (dB)	<55			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated (solar), Isolated (battery)			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm) (Excluding Connectors and Brackets)	464×763×282			464×863×282
Weight (kg)	54.1			59.8
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727, IEC 62116, NRS 097			
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

Three Phase Hybrid Inverter

SUN-5/6/8/10/12K-SG04LP3-EU

Safe

- 48V low voltage battery, transformer isolation design

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 240A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

Model	SUN-5K -SG04LP3-EU	SUN-6K -SG04LP3-EU	SUN-8K -SG04LP3-EU	SUN-10K -SG04LP3-EU	SUN-12K -SG04LP3-EU
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging/Discharging Current (A)	120	150	190	210	240
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	10000	12000	16000	20000	24000
Max. PV Input Power (W)	7500	9000	12000	15000	18000
Max. PV Input Voltage (V)	800				
Start-up Voltage (V)	160				
MPPT Voltage Range (V)	200-650				
Rated PV Input Voltage (V)	550				
Max. Operating PV Input Current (A)	13+13			26+13	
Max. Input Short-Circuit Current (A)	17+17			34+17	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+1	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	5000	6000	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	5500	6600	8800	11000	13200
Rated AC Input/Output Current (A)	7.6/7.2	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Input/Output Current (A)	8.4/8	10/9.6	13.4/12.8	16.7/15.9	20/19.1
Max. Continuous AC Passthrough (grid to load) (A)	45				
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				

Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	97.0%
MPPT Efficiency	>99%
Equipment Protection	
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
LCD/LED Display	LCD
Communication Interface	WIFI, RS485, CAN
General Data	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	2000m
Noise (dB)	≤55
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated (solar), Isolated (battery)
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	422×658×254 (Excluding Connectors and Brackets)
Weight (kg)	38
Type of Cooling	Intelligent Air Cooling
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

Three Phase Hybrid Inverter

SUN-5/6/8/10/12K-SG04LP3-EU-AM2-P

Safe

- 48V low voltage battery, transformer isolation design

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 240A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

Model	SUN-5K-SG04LP3 -EU-AM2-P	SUN-6K-SG04LP3 -EU-AM2-P	SUN-8K-SG04LP3 -EU-AM2-P	SUN-10K-SG04LP3 -EU-AM2-P	SUN-12K-SG04LP3 -EU-AM2-P
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging/Discharging Current (A)	120	130	190	210	240
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	10000	12000	16000	20000	24000
Max. PV Input Power (W)	8000	9600	12800	16000	19200
Max. PV Input Voltage (V)	800				
Start-up Voltage (V)	160				
MPPT Voltage Range (V)	200-650				
Rated PV Input Voltage (V)	550				
Max. Operating PV Input Current (A)	20+20			36+20	
Max. Input Short-Circuit Current (A)	30+30			54+30	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1			2/2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	5000	6000	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	5500	6600	8800	11000	13200
Rated AC Input/Output Current (A)	7.6/7.2	9.1/8.7	12.1/11.6	15.2/14.5	18.2/17.4
Max. AC Input/Output Current (A)	8.4/8	10/9.6	13.4/12.8	16.7/15.9	20/19.1
Max. Continuous AC Passthrough (grid to load) (A)	45				
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				

Efficiency	
Max. Efficiency	97.6%
Euro Efficiency	97.0%
MPPT Efficiency	>99%
Equipment Protection	
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
LCD/LED Display	LCD
Communication Interface	WIFI, RS485, CAN
General Data	
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude	3000m
Noise (dB)	≤55
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated (solar), Isolated (battery)
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (WxHxD mm)	422×658×254 (Excluding Connectors and Brackets)
Weight (kg)	39.8
Type of Cooling	Intelligent Air Cooling
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2

Three Phase Hybrid Inverter

SUN-3/4/5/6/8/10/12K-SG05LP3-EU-SM2

Safe

- 48V low voltage battery, transformer isolation design

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 240A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

Model	SUN-3K-SG05 LP3-EU-SM2	SUN-4K-SG05 LP3-EU-SM2	SUN-5K-SG05 LP3-EU-SM2	SUN-6K-SG05 LP3-EU-SM2	SUN-8K-SG05 LP3-EU-SM2	SUN-10K-SG05 LP3-EU-SM2	SUN-12K-SG05 LP3-EU-SM2
Battery Input Data							
Battery Type	Lead-acid or Lithium-ion						
Battery Voltage Range (V)	40-60						
Max. Charging/Discharging Current (A)	70	95	120	135	190	210	240
Charging Strategy for Li-ion Battery	Self-adaption to BMS						
Number of Battery Input	1						
PV String Input Data							
Max. PV access power (W)	6000	8000	10000	12000	16000	20000	24000
Max. PV Input Power (W)	4800	6400	8000	9600	12800	16000	19200
Max. PV Input Voltage (V)	800						
Start-up Voltage (V)	160						
MPPT Voltage Range (V)	200-650						
Rated PV Input Voltage (V)	550						
Max. Operating PV Input Current (A)	20+20					26+26	
Max. Input Short-Circuit Current (A)	30+30					39+39	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1					2/2+2	
AC Input/Output Data							
Rated AC Input/Output Active Power (W)	3000	4000	5000	6000	8000	10000	12000
Max. AC Input/Output Apparent Power (VA)	3300	4400	5500	6600	8800	11000	13200
Rated AC Input/Output Current (A)	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4
Max. AC Input/Output Current (A)	5/4.8	6.7/6.4	8.4/8	10/9.6	13.4/12.8	16.7/16	20/19.2
Max. Continuous AC Passthrough (grid to load) (A)	45						
Peak Power (off-grid) (W)	2 times of rated power, 10s						
Power Factor Adjustment Range	0.8 leading to 0.8 lagging						
Rated input/output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE						
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65						
Total Current Harmonic Distortion THDi	<3% (of nominal power)						
DC Injection Current	<0.5% In						
Efficiency							
Max. Efficiency	97.6%						
Euro Efficiency	97.0%						
MPPT Efficiency	>99%						
Equipment Protection							
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection						
Surge Protection Level	TYPE II(DC), TYPE II(AC)						
Interface							
LCD/LED Display	LCD						
Communication Interface	WIFI,RS485,CAN						
General Data							
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating						
Permissible Ambient Humidity	0-100%						
Permissible Altitude	3000m						
Noise (dB)	≤55						
Ingress Protection(IP) Rating	IP 65						
Inverter Topology	Non-Isolated (solar), Isolated (battery)						
Over Voltage Category	OVC II(DC), OVC III(AC)						
Cabinet Size (WxHxD mm)	386×660×250 (Excluding Connectors and Brackets)						
Weight (kg)	35.2						
Type of Cooling	Intelligent Air Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy						
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105						
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2						

Three Phase Hybrid Inverter

SUN-3/4/5/6/8K-SG06LP3-EU-BM2

Safe

- 48V low voltage battery, transformer isolation design

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 190A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

Model	SUN-3K-SG06 LP3-EU-BM2	SUN-4K-SG06 LP3-EU-BM2	SUN-5K-SG06 LP3-EU-BM2	SUN-6K-SG06 LP3-EU-BM2	SUN-8K-SG06 LP3-EU-BM2
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging/Discharging Current (A)	70	95	120	135	190
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	6000	8000	10000	12000	16000
Max. PV Input Power (W)	4800	6400	8000	9600	12800
Max. PV Input Voltage (V)	800				
Start-up Voltage (V)	160				
MPPT Voltage Range (V)	200-650				
Rated PV Input Voltage (V)	550				
Max. Operating PV Input Current (A)	20+20				
Max. Input Short-Circuit Current (A)	30+30				
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1				
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	3000	4000	5000	6000	8000
Max. AC Input/Output Apparent Power (VA)	3300	4400	5500	6600	8800
Rated AC Input/Output Current (A)	4.6/4.4	6.1/5.8	7.6/7.3	9.1/8.7	12.2/11.6
Max. AC Input/Output Current (A)	5/4.8	6.7/6.4	8.4/8	10/9.6	12.4/12.8
Max. Continuous AC Passthrough (grid to load) (A)	45				
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/380V,230/400V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	96.5%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI, RS485, CAN				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	<45				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated (solar), Isolated (battery)				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	334×560×216 (Excluding Connectors and Brackets)				
Weight (kg)	20.8				21.9
Type of Cooling	Natural Cooling				Intelligent Air Cooling
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase Hybrid Inverter

SUN-14/15/16/18/20K-SG05LP3-EU-SM2

Safe

- 48V low voltage battery, transformer isolation design

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 350A
- Support storing energy from diesel generator
- 100% unbalanced output, max. output up to 50% rated power for each phase

Model	SUN-14K-SG05 LP3-EU-SM2	SUN-15K-SG05 LP3-EU-SM2	SUN-16K-SG05 LP3-EU-SM2	SUN-18K-SG05 LP3-EU-SM2	SUN-20K-SG05 LP3-EU-SM2
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging/Discharging Current (A)	260	280	300	330	350
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	2				
PV String Input Data					
Max. PV access power (W)	28000	30000	32000	36000	40000
Max. PV Input Power (W)	22400	24000	25600	28800	32000
Max. PV Input Voltage (V)	800				
Start-up Voltage (V)	160				
MPPT Voltage Range (V)	160-650				
Rated PV Input Voltage (V)	550				
Max. Operating PV Input Current (A)	36+36				
Max. Input Short-Circuit Current (A)	54+54				
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2				
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	14000	15000	16000	18000	20000
Max. AC Input/Output Apparent Power (VA)	15400	16500	17600	19800	22000
Rated AC Input/Output Current (A)	21.3/20.3	22.8/21.8	24.3/23.2	27.3/26.1	30.4/29
Max. AC Input/Output Current (A)	23.4/22.4	25/24	26.7/25.6	30/28.7	33.4/31.9
Max. Continuous AC Passthrough (grid to load) (A)	70				
Peak Power (off-grid) (W)	2 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/380V,230/400V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI, RS485, CAN				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	<60				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated (solar), Isolated (battery)				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	456×750×268.5 (Excluding Connectors and Brackets)				
Weight (kg)	51.9				
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase Hybrid Inverter

SUN-5/6/8/10/12/15/20/25K-SG01HP3-EU-AM2

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 50A
- Support storing energy from diesel generator
- 100% unbalanced output

Model	SUN-5K-SG01 HP3-EU-AM2	SUN-6K-SG01 HP3-EU-AM2	SUN-8K-SG01 HP3-EU-AM2	SUN-10K-SG01 HP3-EU-AM2	SUN-12K-SG01 HP3-EU-AM2	SUN-15K-SG01 HP3-EU-AM2	SUN-20K-SG01 HP3-EU-AM2	SUN-25K-SG01 HP3-EU-AM2
Battery Input Data								
Battery Type	Lithium-ion							
Battery Voltage Range (V)	160-700							
Max. Charging/Discharging Current (A)	30		37					50
Charging Strategy for Li-ion Battery	Self-adaption to BMS							
Number of Battery Input	1							
PV String Input Data								
Max. PV access power (W)	10000	12000	16000	20000	24000	30000	40000	50000
Max. PV Input Power (W)	8000	9600	12800	16000	19200	24000	32000	40000
Max. PV Input Voltage (V)	1000							
Start-up Voltage (V)	180							
MPPT Voltage Range (V)	150-850							
Rated PV Input Voltage (V)	600							700
Max. Operating PV Input Current (A)	20+20				26+20		26+26	
Max. Input Short-Circuit Current (A)	30+30				39+30		39+39	
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1				2/2+1		2/2+2	
AC Input/Output Data								
Rated AC Input/Output Active Power (W)	5000	6000	8000	10000	12000	15000	20000	25000
Max. AC Input/Output Apparent Power (VA)	5500	6600	8800	11000	13200	16500	22000	27500
Rated AC Input/Output Current (A)	7.6/7.3	9.1/8.7	12.2/11.6	15.2/14.5	18.2/17.4	22.8/21.8	30.4/29.0	37.9/36.3
Max. AC Input/Output Current (A)	8.4/8.0	10/9.6	13.4/12.8	16.7/16	20/19.2	25/24	33.4/31.9	41.7/39.9
Max. Continuous AC Passthrough (grid to load) (A)	40				80			
Peak Power (off-grid) (W)	1.5 times of rated power, 10s							
Power Factor Adjustment Range	0.8 leading to 0.8 lagging							
Rated input/output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE							
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65							
Total Current Harmonic Distortion THDi	<3% (of nominal power)							
DC Injection Current	<0.5% In							
Efficiency								
Max. Efficiency	97.6%							
Euro Efficiency	97.0%							
MPPT Efficiency	>99%							
Equipment Protection								
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Interface								
LCD/LED Display	LCD							
Communication Interface	WiFi, RS485, CAN							
Monitor Mode	GPRS/WIFI/Bluetooth/4G							
General Data								
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating							
Permissible Ambient Humidity	0-100%							
Permissible Altitude	2000m							
Noise (dB)	≤55							
Ingress Protection(IP) Rating	IP 65							
Inverter Topology	Non-Isolated							
Over Voltage Category	OVC II(DC), OVC III(AC)							
Cabinet Size (WxHxD mm)	408×638×237 (Excluding Connectors and Brackets)							
Weight (kg)	30.5							
Type of Cooling	Natural Cooling	Intelligent Air Cooling						
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy							
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105							
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2							

Split Phase Hybrid Inverter

SUN-8/10/12/15K-SG01HP2-US-AM2

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 50A
- Support storing energy from diesel generator
- 100% unbalanced output

Model	SUN-8K-SG01HP2-US-AM2	SUN-10K-SG01HP2-US-AM2	SUN-12K-SG01HP2-US-AM2	SUN-15K-SG01HP2-US-AM2
Battery Input Data				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-500			
Max. Charging/Discharging Current (A)	50			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV access power (W)	16000	20000	24000	30000
Max. PV Input Power (W)	12000	15000	18000	22500
Max. PV Input Voltage (V)	550			
Start-up Voltage (V)	180			
MPPT Voltage Range (V)	150-500			
Rated PV Input Voltage (V)	380			
Max. Operating PV Input Current (A)	26+26			
Max. Input Short-Circuit Current (A)	39+39			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	8000	10000	12000	15000
Max. AC Input/Output Apparent Power (VA)	8000	10000	12000	15000
Rated AC Input/Output Current (A)	33.4	41.7	50	62.5
Max. AC Input/Output Current (A)	33.4	41.7	50	62.5
Max. Continuous AC Passthrough (grid to load) (A)	150			
Peak Power (off-grid) (W)	1.5 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	120/240V,120/208V 0.88Un-1.1Un 2L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD			
Communication Interface	WIFI, RS485, CAN			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	≤55			
Ingress Protection(IP) Rating	TYPE3R			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC),OVC IV(AC)			
Cabinet Size (WxHxD mm)	408×678×247 (Excluding Connectors and Brackets)			
Weight (kg)	30			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEEE 1547.1, SRD V2.0			
Safety EMC/Standard	FCC, UL 1741			

Three Phase Hybrid Inverter

SUN-8/10/12/15K-SG01HP3-US-AM2

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 50A
- Support storing energy from diesel generator
- 100% unbalanced output

Model	SUN-8K-SG01HP3-US-AM2	SUN-10K-SG01HP3-US-AM2	SUN-12K-SG01HP3-US-AM2	SUN-15K-SG01HP3-US-AM2
Battery Input Data				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-500			
Max. Charging/Discharging Current (A)	50			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	1			
PV String Input Data				
Max. PV access power (W)	16000	20000	24000	30000
Max. PV Input Power (W)	12000	15000	18000	22500
Max. PV Input Voltage (V)	550			
Start-up Voltage (V)	180			
MPPT Voltage Range (V)	150-500			
Rated PV Input Voltage (V)	380			
Max. Operating PV Input Current (A)	26+26			
Max. Input Short-Circuit Current (A)	39+39			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	8000	10000	12000	15000
Max. AC Input/Output Apparent Power (VA)	8000	10000	12000	15000
Rated AC Input/Output Current (A)	22.3	27.8	33.4	41.7
Max. AC Input/Output Current (A)	22.3	27.8	33.4	41.7
Max. Continuous AC Passthrough (grid to load) (A)	80			
Peak Power (off-grid) (W)	1.5 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	120/208V 0.88Un-1.1Un 3L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	97.6%			
Euro Efficiency	96.5%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD			
Communication Interface	WIFI, RS485, CAN			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	2000m			
Noise (dB)	≤55			
Ingress Protection(IP) Rating	TYPE3R			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC),OVC IV(AC)			
Cabinet Size (WxHxD mm)	408×678×247 (Excluding Connectors and Brackets)			
Weight (kg)	30			
Type of Cooling	Intelligent Air Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEEE 1547.1, SRD V2.0			
Safety EMC/Standard	FCC, UL 1741			

Three Phase Hybrid Inverter

SUN-25/29.9/30K-SG02HP3-EU-AM3

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 75A
- Support storing energy from diesel generator
- 100% unbalanced output

Model	SUN-25K-SG02HP3-EU-AM3	SUN-29.9K-SG02HP3-EU-AM3	SUN-30K-SG02HP3-EU-AM3
Battery Input Data			
Battery Type		Lithium-ion	
Battery Voltage Range (V)		160-700	
Max. Charging/Discharging Current (A)		75	
Charging Strategy for Li-ion Battery		Self-adaption to BMS	
Number of Battery Input		1	
PV String Input Data			
Max. PV access power (W)	50000	59800	60000
Max. PV Input Power (W)	40000	47840	48000
Max. PV Input Voltage (V)		1000	
Start-up Voltage (V)		180	
MPPT Voltage Range (V)		150-850	
Rated PV Input Voltage (V)		600	
Max. Operating PV Input Current (A)		36+36+36	
Max. Input Short-Circuit Current (A)		54+54+54	
No. of MPP Trackers/ No. of Strings MPP Tracker		3/2+2+2	
AC Input/Output Data			
Rated AC Input/Output Active Power (W)	25000	29900	30000
Max. AC Input/Output Apparent Power (VA)	27500	29900	33000
Rated AC Input/Output Current (A)	37.9/36.3	45.4/43.4	45.5/43.5
Max. AC Input/Output Current (A)	41.7/39.9	45.4/43.4	50/47.9
Max. Continuous AC Passthrough (grid to load) (A)		80	
Peak Power (off-grid) (W)		1.5 times of rated power, 10s	
Power Factor Adjustment Range		0.8 leading to 0.8 lagging	
Rated input/output voltage		220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE	
Rated Input/Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65	
Total Current Harmonic Distortion THDi		<3% (of nominal power)	
DC Injection Current		<0.5% In	
Efficiency			
Max. Efficiency		98.5%	
Euro Efficiency		98.0%	
MPPT Efficiency		>99%	
Equipment Protection			
Integrated		DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection	
Surge Protection Level		TYPE II(DC), TYPE II(AC)	
Interface			
LCD/LED Display		LCD+LED	
Communication Interface		RS485, RS232, CAN	
Monitor Mode		GPRS/WIFI/Bluetooth/4G/LAN(optional)	
General Data			
Operating Temperature Range (°C)		-40 to +60°C, >45°C Derating	
Permissible Ambient Humidity		0-100%	
Permissible Altitude		3000m	
Noise (dB)		≤55	
Ingress Protection(IP) Rating		IP 65	
Inverter Topology		Non-Isolated	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)		448×688×270 (Excluding Connectors and Brackets)	
Weight (kg)		46	
Type of Cooling		Intelligent Air Cooling	
Warranty		5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy	
Grid Regulation		IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105	
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG01HP3-EU-BM3
SUN-40/50K-SG01HP3-EU-BM4

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 100A
- Support storing energy from diesel generator
- 100% unbalanced output

Model	SUN-29.9K-SG01 HP3-EU-BM3	SUN-30K-SG01 HP3-EU-BM3	SUN-35K-SG01 HP3-EU-BM3	SUN-40K-SG01 HP3-EU-BM4	SUN-50K-SG01 HP3-EU-BM4
Battery Input Data					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-800				
Max. Charging/Discharging Current (A)	50+50				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	2				
PV String Input Data					
Max. PV access power (W)	59800	60000	70000	80000	100000
Max. PV Input Power (W)	47840	48000	56000	64000	80000
Max. PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	36+36+36			36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55+55	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			4/2+2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	29900	30000	35000	40000	50000
Max. AC Input/Output Apparent Power (VA)	29900	33000	38500	44000	55000
Rated AC Input/Output Current (A)	45.4/43.4	45.5/43.5	53.1/50.8	60.7/58.0	75.8/72.5
Max. AC Input/Output Current (A)	45.4/43.4	50/47.9	58.4/55.8	66.7/63.8	83.4/79.8
Max. Continuous AC Passthrough (grid to load) (A)	200				
Peak Power (off-grid) (W)	1.5 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/380V,230/400V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI, RS485, CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	2000m				
Noise (dB)	≤65				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	527×894×294 (Excluding Connectors and Brackets)				
Weight (kg)	80				
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG02HP3-EU-BM3
SUN-40/50K-SG02HP3-EU-BM4

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 100A
- Support storing energy from diesel generator
- 100% unbalanced output

Model	SUN-29.9K-SG02 HP3-EU-BM3	SUN-30K-SG02 HP3-EU-BM3	SUN-35K-SG02 HP3-EU-BM3	SUN-40K-SG02 HP3-EU-BM4	SUN-50K-SG02 HP3-EU-BM4
Battery Input Data					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-800				
Max. Charging/Discharging Current (A)	100				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	59800	60000	70000	80000	100000
Max. PV Input Power (W)	47840	48000	56000	64000	80000
Max. PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	36+36+36			36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55+55	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			4/2+2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	29900	30000	35000	40000	50000
Max. AC Input/Output Apparent Power (VA)	29900	33000	38500	44000	55000
Rated AC Input/Output Current (A)	45.4/43.4	45.5/43.5	53.1/50.8	60.7/58.0	75.8/72.5
Max. AC Input/Output Current (A)	45.4/43.4	50/47.9	58.4/55.8	66.7/63.8	83.4/79.8
Max. Continuous AC Passthrough (grid to load) (A)	200				
Peak Power (off-grid) (W)	1.5 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/380V,230/400V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI/RS485/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	≤65				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	528×793×278 (Excluding Connectors and Brackets)				
Weight (kg)	65				
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase Hybrid Inverter

SUN-29.9/30/35K-SG02HP3-EU-BM3-P
SUN-40/50K-SG02HP3-EU-BM4-P

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 160A
- Support storing energy from diesel generator
- 100% unbalanced output

Model	SUN-29.9K-SG02 HP3-EU-BM3-P	SUN-30K-SG02 HP3-EU-BM3-P	SUN-35K-SG02 HP3-EU-BM3-P	SUN-40K-SG02 HP3-EU-BM4-P	SUN-50K-SG02 HP3-EU-BM4-P
Battery Input Data					
Battery Type	Lithium-ion				
Battery Voltage Range (V)	160-800				
Max. Charging/Discharging Current (A)	160				
Charging Strategy for Li-ion Battery	Self-adaption to BMS				
Number of Battery Input	1				
PV String Input Data					
Max. PV access power (W)	59800	60000	70000	80000	100000
Max. PV Input Power (W)	47840	48000	56000	64000	80000
Max. PV Input Voltage (V)	1000				
Start-up Voltage (V)	180				
MPPT Voltage Range (V)	150-850				
Rated PV Input Voltage (V)	600				
Max. Operating PV Input Current (A)	36+36+36			36+36+36+36	
Max. Input Short-Circuit Current (A)	55+55+55			55+55+55+55	
No. of MPP Trackers/ No. of Strings MPP Tracker	3/2+2+2			4/2+2+2+2	
AC Input/Output Data					
Rated AC Input/Output Active Power (W)	29900	30000	35000	40000	50000
Max. AC Input/Output Apparent Power (VA)	29900	33000	38500	44000	55000
Rated AC Input/Output Current (A)	45.4/43.4	45.5/43.5	53.1/50.8	60.7/58.0	75.8/72.5
Max. AC Input/Output Current (A)	45.4/43.4	50/47.9	58.4/55.8	66.7/63.8	83.4/79.8
Max. Continuous AC Passthrough (grid to load) (A)	200				
Peak Power (off-grid) (W)	1.5 times of rated power, 10s				
Power Factor Adjustment Range	0.8 leading to 0.8 lagging				
Rated input/output voltage	220/380V,230/400V 0.85Un-1.1Un 3L+N+PE				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Total Current Harmonic Distortion THDi	<3% (of nominal power)				
DC Injection Current	<0.5% In				
Efficiency					
Max. Efficiency	97.6%				
Euro Efficiency	97.0%				
MPPT Efficiency	>99%				
Equipment Protection					
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
LCD/LED Display	LCD				
Communication Interface	WIFI/RS485/CAN				
Monitor Mode	GPRS/WIFI/Bluetooth/4G				
General Data					
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude	3000m				
Noise (dB)	≤65				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	528×793×278 (Excluding Connectors and Brackets)				
Weight (kg)	65				
Type of Cooling	Intelligent Air Cooling				
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, G99, VDE-AR-N 4105				
Safety / EMC Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Three Phase Hybrid Inverter

SUN-60/70/75/80K-SG02HP3-EU-EM6

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 160A
- Support storing energy from diesel generator

Model	SUN-60K-SG02HP3 -EU-EM6	SUN-70K-SG02HP3 -EU-EM6	SUN-75K-SG02HP3 -EU-EM6	SUN-80K-SG02HP3 -EU-EM6
Battery Input Data				
Battery Type	Lithium-ion			
Battery Voltage Range (V)	160-1000			
Max. Charging/Discharging Current (A)	80+80			
Charging Strategy for Li-ion Battery	Self-adaption to BMS			
Number of Battery Input	2			
PV String Input Data				
Max. PV access power (W)	120000	140000	150000	160000
Max. PV Input Power (W)	96000	112000	120000	128000
Max. PV Input Voltage (V)	1000			
Start-up Voltage (V)	180			
MPPT Voltage Range (V)	150-850			
Rated PV Input Voltage (V)	650			
Max. Operating PV Input Current (A)	36+36+36+36+36+36			
Max. Input Short-Circuit Current (A)	54+54+54+54+54+54			
No. of MPP Trackers/ No. of Strings MPP Tracker	6/2+2+2+2+2+2			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	60000	70000	75000	80000
Max. AC Input/Output Apparent Power (VA)	66000	77000	82500	88000
Rated AC Input/Output Current (A)	91/87	106.1/101.5	113.7/108.7	121.3/116
Max. AC Input/Output Current (A)	100/95.7	116.7/111.6	125/119.6	133.4/127.6
Max. Continuous AC Passthrough (grid to load) (A)	200			
Peak Power (off-grid) (W)	1.5 times of rated power, 10s			
Power Factor Adjustment Range	0.8 leading to 0.8 lagging			
Rated input/output voltage	220/380V,230/400V 0.85Un-1.1Un 3L+N+PE			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Total Current Harmonic Distortion THDi	<3% (of nominal power)			
DC Injection Current	<0.5% In			
Efficiency				
Max. Efficiency	98.70%			
Euro Efficiency	98.10%			
MPPT Efficiency	>99%			
Equipment Protection				
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
LCD/LED Display	LCD+LED			
Communication Interface	RS485,RS232,CAN			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude	3000m			
Noise (dB)	≤65			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (WxHxD mm)	606×927×314 (Excluding Connectors and Brackets)			
Weight (kg)	105			
Type of Cooling	Smart Cooling			
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy			
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G99, VDE-AR-N 4105			
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2			

Three Phase Hybrid Inverter

SUN-100K-SG02HP3-EU-GM8
SUN-100/125K-SG02HP3-EU-GM10

Efficient

- High voltage battery, higher efficiency

Intelligent

- 6 time periods for battery charging/discharging

Flexible

- AC couple to retrofit existing solar system
- Max. 10 pcs parallel for on-grid and off-grid operation; support multiple batteries parallel

Reliable

- Max. charging/discharging current of 200A
- Support storing energy from diesel generator

Model	SUN-100K-SG02HP3-EU-GM8	SUN-100K-SG02HP3-EU-GM10	SUN-125K-SG02HP3-EU-GM10
Battery Input Data			
Battery Type	Lithium-ion		
Battery Voltage Range (V)	160-1000		
Max. Charging/Discharging Current (A)	100+100		
Charging Strategy for Li-ion Battery	Self-adaption to BMS		
Number of Battery Input	2		
PV String Input Data			
Max. PV access power (W)	200000	200000	250000
Max. PV Input Power (W)	160000	160000	200000
Max. PV Input Voltage (V)	1000		
Start-up Voltage (V)	180		
MPPT Voltage Range (V)	150-850		
Rated PV Input Voltage (V)	650		
Max. Operating PV Input Current (A)	42+42+42+42+42+42+42+42	42+42+42+42+42+42+42+42+42+42	
Max. Input Short-Circuit Current (A)	63+63+63+63+63+63+63+63	63+63+63+63+63+63+63+63+63+63	
No. of MPP Trackers/ No. of Strings MPP Tracker	8/2+2+2+2+2+2+2+2	10/2+2+2+2+2+2+2+2+2+2	
AC Input/Output Data			
Rated AC Input/Output Active Power (W)	100000	100000	125000
Max. AC Input/Output Apparent Power (VA)	110000	110000	135000
Rated AC Input/Output Current (A)	151.6/145.0	151.6/145.0	189.4/181.2
Max. AC Input/Output Current (A)	166.7/159.5	166.7/159.5	204.6/195.7
Max. Continuous AC Passthrough (grid to load) (A)	250		
Peak Power (off-grid) (W)	1.5 times of rated power, 10s		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging		
Rated input/output voltage	220/380V, 230/400V 0.85Un-1.1Un 3L+N+PE		
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Total Current Harmonic Distortion THDi	<3% (of nominal power)		
DC Injection Current	<0.5% In		
Efficiency			
Max. Efficiency	98.70%		
Euro Efficiency	98.10%		
MPPT Efficiency	>99%		
Equipment Protection			
Integrated	DC Reverse Polarity Protection, AC Output Overcurrent Protection, Thermal Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, DC Component Monitoring, Arc Fault Circuit Interrupter (AFCI) (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection		
Surge Protection Level	TYPE II(DC), TYPE II(AC)		
Interface			
LCD/LED Display	LCD+LED		
Communication Interface	RS485,RS232,CAN		
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)		
General Data			
Operating Temperature Range (°C)	-40 to +60°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude	3000m		
Noise (dB)	≤65		
Ingress Protection(IP) Rating	IP 65		
Inverter Topology	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	734×1091×344 (Excluding Connectors and Brackets)		
Weight (kg)	161.7		
Type of Cooling	Intelligent Air Cooling		
Warranty	5 Years/10 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy		
Grid Regulation	IEC 61727,IEC 62116,CEI 0-21,EN 50549 , NRS 097,RD 140,UNE 217002, OVE-Richtlinie R25,G99,VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

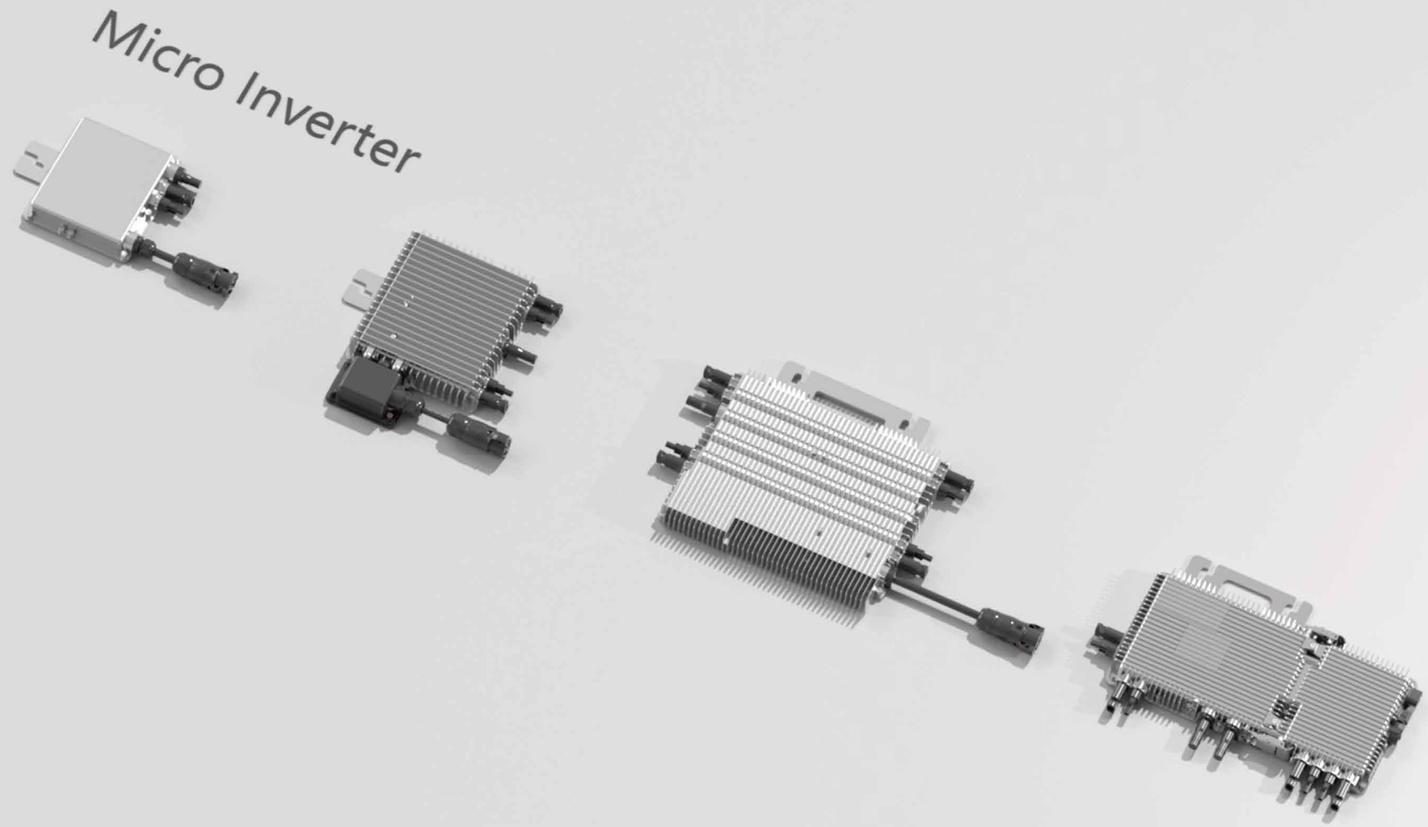
03

MICROINVERTER

Deye microinverter 300-2250W

Deye microinverter offers a spectrum of power options ranging from 300W to 2250W, accompanied by one, two, or four-way Maximum Power Point Tracking (MPPT). It features module-level monitoring and optimization, Wi-Fi direct connection, and capabilities for remote rapid shutdown.

The complete Network & System protection ensures the safe operation of the product within home electrical grids. Installation is easy and straightforward; by connecting to a Wi-Fi hotspot, the product can join the home WLAN network for cloud-based monitoring and management.



Deye Microinverters provide a more cost-effective and convenient solution for small photovoltaic power stations and balcony photovoltaic systems.

Microinverter

SUN-M30/40/50G4-EU-Q0-I

Safe

- Complete NS protection with self-check function
- Rapid shutdown function

Reliable

- 25 years design lifetime, 10 years warranty
- IP67 protection degree

Intuitive

- Wi-Fi communication
- Easy installation, suitable for quick-plug balcony PV systems

Efficient

- 1 MPP tracker, module level monitoring
- <100ms AC fast discharge, compliant with DIN VDE 0126-95 (<200ms) safety standard
- External relay design with low temperature, long life and easier maintenance

Model	SUN-M30G4-EU-Q0-I	SUN-M40G4-EU-Q0-I	SUN-M50G4-EU-Q0-I
PV String Input Data			
Max. PV Input Power (W)	210-420(1 Pieces)	210-560(1 Pieces)	210-700(1 Pieces)
Max. PV Input Voltage (V)	60		
Start-up Voltage (V)	20		
MPPT Voltage Range (V)	25-55		
Rated PV Input Voltage (V)	42.5		
Max. Operating PV Input Current (A)	15		
Max. Input Short-Circuit Current (A)	22.5		
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1		
AC Output Data			
Rated AC Output Active Power (W)	300	400	500
Max. AC Output Apparent Power (VA)	300	400	500
Rated AC Output Current (A)	1.4/1.4	1.9/1.8	2.3/2.2
Max. AC Output Current (A)	1.4/1.4	1.9/1.8	2.3/2.2
Max. Unit per Branch	17	13	10
Rated input/output voltage	220/230V 0.85Un-1.1Un L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.9 leading to 0.9 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
Efficiency			
Max. Efficiency	96.5%		
Euro Efficiency	96.0%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
Anti-islanding Protection	Yes		
Surge Protection Level	TYPE II(AC)		
Interface			
Communication Interface	Wi-Fi		
General Data			
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	2000m		
Noise (dB)	≤25		
Ingress Protection(IP) Rating	IP 67		
Inverter Topology	Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	173×158.5×31.5 (Excluding Connectors and Brackets)		
Weight (kg)	1.85		
Warranty	10 Years		
Type of Cooling	Natural Cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

Microinverter

SUN-M60/80/100G4-EU-Q0

Safe

- Complete NS protection with self-check function
- Rapid shutdown function

Reliable

- 25 years design lifetime, 10 years warranty
- IP67 protection degree

Intuitive

- Wi-Fi communication
- Easy installation, suitable for quick-plug balcony PV systems

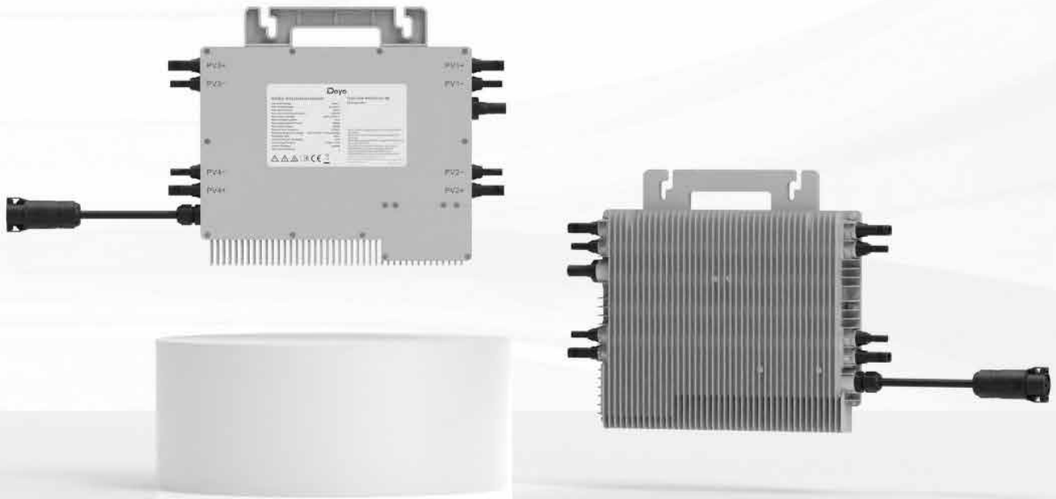
Efficient

- 2 MPP tracker, module level monitoring
- <100ms AC fast discharge, compliant with DIN VDE 0126-95 (<200ms) safety standard
- External relay design with low temperature, long life and easier maintenance

Model	SUN-M60G4-EU-Q0	SUN-M80G4-EU-Q0	SUN-M100G4-EU-Q0
PV String Input Data			
Max. PV Input Power (W)	210-420(2 Pieces)	210-560(2 Pieces)	210-700(2 Pieces)
Max. PV Input Voltage (V)	60		
Start-up Voltage (V)	20		
MPPT Voltage Range (V)	25-55		
Rated PV Input Voltage (V)	42.5		
Max. Operating PV Input Current (A)	13+13		
Max. Input Short-Circuit Current (A)	19.5+19.5		
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1		
AC Output Data			
Rated AC Output Active Power (W)	600	800	1000
Max. AC Output Apparent Power (VA)	600	800	1000
Rated AC Output Current (A)	2.8/2.7	3.7/3.5	4.6/4.4
Max. AC Output Current (A)	2.8/2.7	3.7/3.5	4.6/4.4
Max. Unit per Branch	8	6	5
Rated input/output voltage	220/230V 0.85Un-1.1Un L/N/PE		
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.9 leading to 0.9 lagging		
Total Current Harmonic Distortion THDi	<3%		
DC Injection Current	<0.5%In		
Efficiency			
Max. Efficiency	96.5%		
Euro Efficiency	96.0%		
MPPT Efficiency	>99%		
Equipment Protection			
DC Reverse Polarity Protection	Yes		
AC Output Overcurrent Protection	Yes		
AC Output Overvoltage Protection	Yes		
AC Output Short Circuit Protection	Yes		
Thermal Protection	Yes		
Insulation Impedance Detection	Yes		
Anti-islanding Protection	Yes		
Surge Protection Level	TYPE II(AC)		
Interface			
Communication Interface	Wi-Fi		
General Data			
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating		
Permissible Ambient Humidity	0-100%		
Permissible Altitude (m)	2000m		
Noise (dB)	≤25		
Ingress Protection(IP) Rating	IP 67		
Inverter Topology	Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)		
Cabinet Size (WxHxD mm)	280.5×190×40 (Excluding Connectors and Brackets)		
Weight (kg)	3		
Warranty	10 Years		
Type of Cooling	Natural Cooling		
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, VDE-AR-N 4105		
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2		

Microinverter

SUN-M130/160/180/200/220G4-EU-Q0



Safe

- Rapid shutdown function

Intuitive

- Wi-Fi communication

Reliable

- IP67 protection degree, 10 years warranty

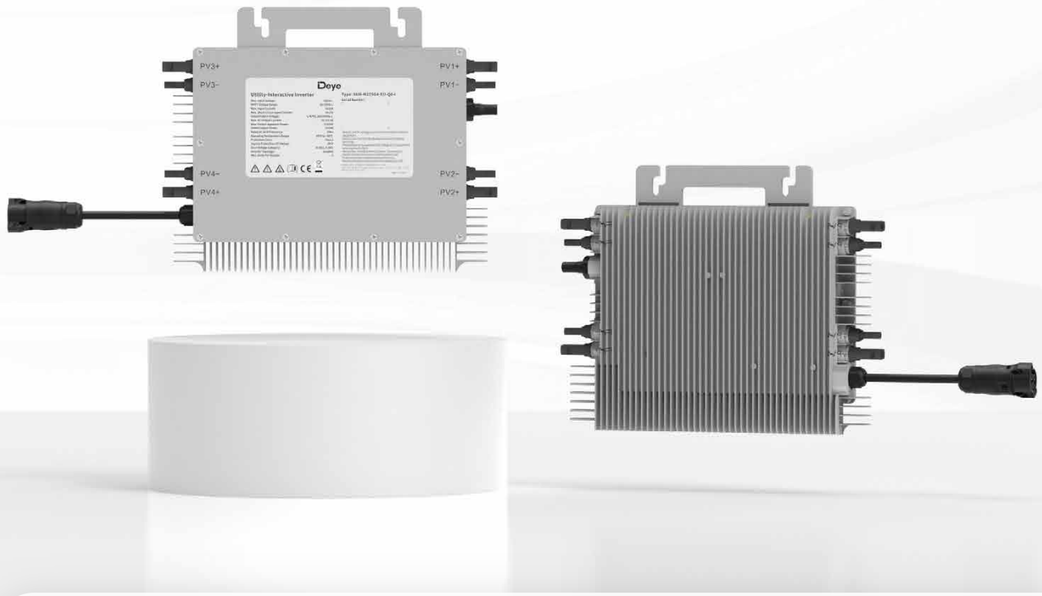
Efficient

- 4 MPP trackers, module level monitoring
- Max. DC input current of 18A, adapt to 770W PV module

Model	SUN-M130G4-EU-Q0	SUN-M160G4-EU-Q0	SUN-M180G4-EU-Q0	SUN-M200G4-EU-Q0	SUN-M220G4-EU-Q0
PV String Input Data					
Max. PV Input Power (W)	210-460 (4 Pieces)	210-560 (4 Pieces)	210-630 (4 Pieces)	210-700 (4 Pieces)	210-770 (4 Pieces)
Max. PV Input Voltage (V)	60				
Start-up Voltage (V)	20				
MPPT Voltage Range (V)	25-55				
Rated PV Input Voltage (V)	42.5				
Max. Operating PV Input Current (A)	15+15+15+15				18+18+18+18
Max. Input Short-Circuit Current (A)	22.5+22.5+22.5+22.5				27+27+27+27
No. of MPP Trackers/ No. of Strings MPP Tracker	4/1				
AC Output Data					
Rated AC Output Active Power (W)	1300	1600	1800	2000	2200
Max. AC Output Apparent Power (VA)	1300	1600	1800	2000	2200
Rated AC Output Current (A)	6/5.7	7.3/7	8.2/7.9	9.1/8.7	10/9.6
Max. AC Output Current (A)	6/5.7	7.3/7	8.2/7.9	9.1/8.7	10/9.6
Max. Unit per Branch	5	4	3	3	3
Rated input/output voltage	220/230V 0.85Un-1.1Un L/N/PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Power Factor Adjustment Range	0.9 leading to 0.9 lagging				
Total Current Harmonic Distortion THDi	<3%				
DC Injection Current	<0.5%In				
Efficiency					
Max. Efficiency	96.5%				
Euro Efficiency	96.0%				
MPPT Efficiency	>99%				
Equipment Protection					
DC Reverse Polarity Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overvoltage Protection	Yes				
AC Output Short Circuit Protection	Yes				
Thermal Protection	Yes				
Insulation Impedance Detection	Yes				
Anti-islanding Protection	Yes				
Surge Protection Level	TYPE II(AC)				
Interface					
Communication Interface	Wi-Fi				
General Data					
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude (m)	2000m				
Noise (dB)	≤25				
Ingress Protection(IP) Rating	IP 67				
Inverter Topology	Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	311×250.5×36.5 (Excluding Connectors and Brackets)				358×255.5×36.5
Weight (kg)	5.1				5.2
Warranty	10 Years				
Type of Cooling	Natural Cooling				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Microinverter

SUN-M130/160/180/200/220G4-EU-Q0-I



Reliable

- IP67 protection degree, 10 years warranty

Intuitive

- Wireless wifi communication, no wiring required

Safe

- Rapid shutdown function
- Bidirectional measurement can record electricity consumption data while also preventing backflow

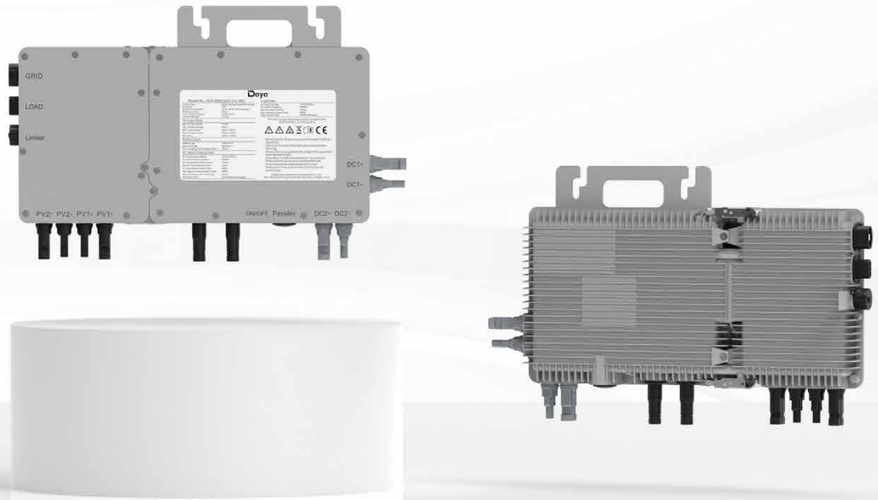
Efficient

- 4 MPP trackers, module level monitoring
- Max. DC input current of 18A, adapt to 770W PV module

Model	SUN-M130G4-EU-Q0-I	SUN-M160G4-EU-Q0-I	SUN-M180G4-EU-Q0-I	SUN-M200G4-EU-Q0-I	SUN-M220G4-EU-Q0-I
PV String Input Data					
Max. PV Input Power (W)	210-460 (4 Pieces)	210-560 (4 Pieces)	210-630 (4 Pieces)	210-700 (4 Pieces)	210-770 (4 Pieces)
Max. PV Input Voltage (V)	60				
Start-up Voltage (V)	20				
MPPT Voltage Range (V)	25-55				
Rated PV Input Voltage (V)	42.5				
Max. Operating PV Input Current (A)	18+18+18+18				
Max. Input Short-Circuit Current (A)	27+27+27+27				
No. of MPP Trackers/ No. of Strings MPP Tracker	4/1				
AC Output Data					
Rated AC Output Active Power (W)	1300	1600	1800	2000	2200
Max. AC Output Apparent Power (VA)	1300	1600	1800	2000	2200
Rated AC Output Current (A)	6/5.7	7.3/7	8.2/7.9	9.1/8.7	10/9.6
Max. AC Output Current (A)	6/5.7	7.3/7	8.2/7.9	9.1/8.7	10/9.6
Max. Unit per Branch	5	4	3	3	3
Rated input/output voltage	220/230V 0.85Un-1.1Un L/N/PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Power Factor Adjustment Range	0.9 leading to 0.9 lagging				
Total Current Harmonic Distortion THDi	<3%				
DC Injection Current	<0.5%In				
Efficiency					
Max. Efficiency	96.5%				
Euro Efficiency	96.0%				
MPPT Efficiency	>99%				
Equipment Protection					
DC Reverse Polarity Protection	Yes				
AC Output Overcurrent Protection	Yes				
AC Output Overvoltage Protection	Yes				
AC Output Short Circuit Protection	Yes				
Thermal Protection	Yes				
Insulation Impedance Detection	Yes				
Anti-islanding Protection	Yes				
Surge Protection Level	TYPE II(AC)				
Interface					
Communication Interface	Wi-Fi				
General Data					
Operating Temperature Range (°C)	-40 to +65°C, >45°C Derating				
Permissible Ambient Humidity	0-100%				
Permissible Altitude (m)	2000m				
Noise (dB)	≤25				
Ingress Protection(IP) Rating	IP 67				
Inverter Topology	Isolated				
Over Voltage Category	OVC II(DC), OVC III(AC)				
Cabinet Size (WxHxD mm)	358×255.5×36.5 (Excluding Connectors and Brackets)				
Weight (kg)	4.95				
Warranty	10 Years				
Type of Cooling	Natural Cooling				
Grid Regulation	IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, OVE-Richtlinie R25, G98, VDE-AR-N 4105				
Safety EMC/Standard	IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2				

Microinverter

SUN-BK60/80/100SG01-EU-AM2



Efficient

- Max. charging/discharging current 25A

Intelligent

- WiFi communication
- Wireless CT / Smart Switch / BMS communication

Flexible

- AC couple to retrofit existing solar system
- Expand two independent PV inputs

Reliable

- IP67 protection degree
- Supports UPS load, fast switching within 4ms

Model	SUN-BK60SG01-EU-AM2	SUN-BK80SG01-EU-AM2	SUN-BK100SG01-EU-AM2
Battery Input Data			
Battery Type		Lithium-ion	
Battery Voltage Range (V)		40-60	
Max. Charging/Discharging Current (A)		25	
Charging Strategy for Li-ion Battery		Self-adaption to BMS	
Number of Battery Input		1	
PV String Input Data			
Max. PV access power (W)	1320	1760	2200
Max. PV Input Power (W)	960	1280	1600
Max. PV Input Voltage (V)		60	
Start-up Voltage (V)		25	
MPPT Voltage Range (V)		20-55	
Rated PV Input Voltage (V)		42.5	
Max. Operating PV Input Current (A)		18+18	
Max. Input Short-Circuit Current (A)		27+27	
No. of MPP Trackers/ No. of Strings MPP Tracker		2/1	
AC Input/Output Data			
Rated AC Input/Output Active Power (W)	600	800	1000
Max. AC Input/Output Apparent Power (VA)	660	880	1100
Rated AC Input/Output Current (A)	2.8/2.7	3.7/3.5	4.6/4.4
Max. AC Input/Output Current (A)	3/2.9	4/3.9	5/4.8
Max. Continuous AC Passthrough (grid to load) (A)		10	
Peak Power (off-grid) (W)		2 times of rated power, 10s	
Power Factor Adjustment Range		0.8 leading to 0.8 lagging	
Rated input/output voltage		220/230V 0.85Un-1.1Un L+N+PE	
Rated Input/Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65	
Total Current Harmonic Distortion THDi		<3% (of nominal power)	
DC Injection Current		<0.5% In	
Efficiency			
Max. Efficiency		96.5%	
Euro Efficiency		96.0%	
MPPT Efficiency		>99%	
Equipment Protection			
Integrated		DC Reverse Polarity Protection, AC Output Overcurrent Protection, AC Output Overvoltage Protection, AC Output Short Circuit Protection, Thermal Protection, Insulation Impedance Detection, Anti-islanding Protection	
Surge Protection Level		TYPE II(DC), TYPE II(AC)	
Interface			
Communication Interface		Wi-Fi, LoRa, Bluetooth	
General Data			
Operating Temperature Range (°C)		-40 to +65°C, >45°C Derating	
Permissible Ambient Humidity		0-100%	
Permissible Altitude		2000m	
Noise (dB)		≤25	
Ingress Protection(IP) Rating		IP 67	
Inverter Topology		Isolated	
Over Voltage Category		OVC II(DC), OVC III(AC)	
Cabinet Size (WxHxD mm)		364.5×183×32.9 (Excluding Connectors and Brackets)	
Weight (kg)		4.55	
Type of Cooling		Natural Cooling	
Warranty		10 Years/15 Years the Warranty Period Depends the Final Installation Site of Inverter, More Info Please Refer to Warranty Policy	
Grid Regulation		IEC 61727, IEC 62116, CEI 0-21, EN 50549, NRS 097, RD 140, UNE 217002, G98, VDE-AR-N 4105	
Safety EMC/Standard		IEC/EN 61000-6-1/2/3/4, IEC/EN 62109-1, IEC/EN 62109-2	

wireless energy management system

SUN-SMART-SWITCH01P3 SUN-SMART-PLUG01-F
SUN-EVSE11K01-EU-AC SUN-EVSE22K01-EU-AC
SUN-SMART-TX01/U1 SUN-SMART-CT02-WL

Seamless Compatibility

- Supports all Deye hybrid inverters

Energy Optimization

- Maximize the use of solar power
- Minimize the electricity bill as much as possible

Intelligent Control

- Easily define critical & non-critical loads
- Charging control strategy based on time
- Smart Load Management

LoRa Communication

- Low latency
- Long-range communication
- Offline operation

Model	SUN-SMART-SWITCH01P3
Electrical Parameters	
Voltage Range	94-238Va.c.(Phase voltage)
Connection Type	L1/N(single phase), L1/L2/L3/N(three phase)
Maximum Current	25Aa.c.(Phase current)
Frequency and Range	50Hz(45Hz-55Hz)/ 60Hz(55Hz-65Hz)
Connection	Connector plug-in type
Communication	
Communication Model	LoRa
Lora Communication Distance	≈200m(Barrier free)
Basic Parameters	
Working Temperature Range	-40 to +45°C
Allow Environmental Humidity	0-100% RH
Ingress Protection(IP) Rating	IP65
Protection level	CLASS I
Allowable altitude	≤4000m
Product size (WxHxD)	96.7x204.7x37.7mm
Weight	0.4kg
Warranty	5 Years
Standard	IEC/EN 61010-1
Lora Parameters	
Frequency Range	863MHz-870MHz
Antenna	Internal antenna
Antenna Gain	1.58dBi@868MHz

Model	SUN-SMART-PLUG01-F
Electrical Parameters	
Rated voltage	220-250Va.c.
Maximum current	16Aa.c.
Frequency and Range	50Hz(45Hz-55Hz)/60Hz(55Hz-65Hz)
Connection	Plug-type
Communication	
Communication Model	LoRa
Lora Communication Distance	≈200m(Barrier free)
Basic Parameters	
Working Temperature Range	-40 to +60°C
Ingress Protection(IP) Rating	IP20
Protection level	CLASS I
Allowable altitude	≤3000m
Product size (WxHxD)	51.2x51.2x64mm
Weight	0.08kg
Warranty	5 Years
Standard	VDE 0620-2-1;EN 61058
LoRa	
Frequency Range	863MHz-870MHz
Antenna	Internal antenna
Antenna Gain	0.3.23dBi@868MHz

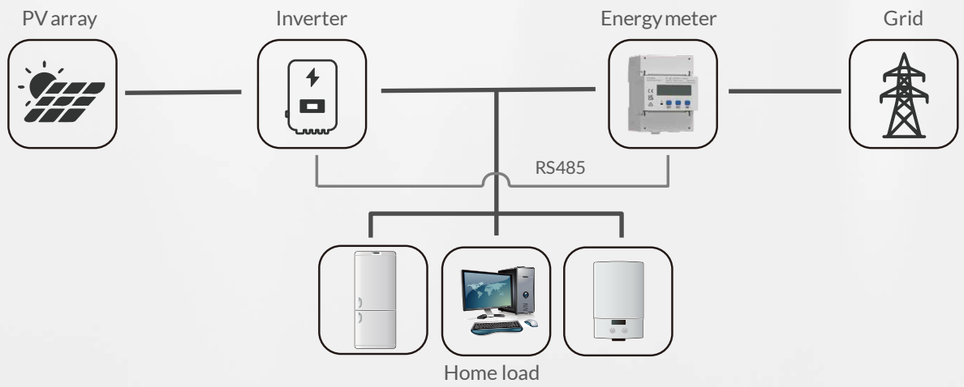
Model	SUN-EVSE11K01-EU-AC	SUN-EVSE22K01-EU-AC
Product Parameter		
Input Voltage/Range (V)	230/400	230(single phase), 230/400(three phase)
Connection Mode	3L+N+PE	L+N+PE, 3L+N+PE
Input Current (A)	16	32
Input Frequency/Range	50/45-55, 60/55-65	
Maximum Output Power (kW)	11	7(single phase)/ 22(three phase)
Starting Method	Plug and Play /Scheduled Charging	
Equipment Protection		
Integrated	Over Temperature Protection, Low Temperature Protection, Over Voltage Protection, Under Voltage Protection, Short Circuit Protection, Over Load Protection, Earth Fault Protection	
Leakage Current Protection	DC 6mA	
Surge Protection Level	TYPE II	
General Data		
Operating Temperature Range (°C)	-40 to +55°C	
Permissible Ambient Humidity	5%~95% No condensation	
Permissible Altitude (m)	≤3000	
Noise (dB)	<25	
Ingress Protection(IP) Rating	IP 66	
Cabinet Size (WxHxD mm)	104x264x57.5	
Weight (kg)	3.7	
Gun Cable Length (m)	4.2	
Number Of Charging Guns	1	
MTBF	100,000h	
Safety EMC/Standard	EN IEC 61851-1:2019, IEC 61851-1:2017, EN 300 220-2 V3.1.1:2017, EN 300 328 V2.2.2:2019, EN IEC 62311:2020 EN 301 489-1 V2.2.3:2019, EN 301 489-3 V2.3.2:2023, EN 301 489-17 V3.3.1:2024, EN IEC 61000-6-1:2019 EN IEC 61000-6-3:2021, EN IEC 61851-21-2:2021	
Interface		
Communication Mode	LoRa/Wi-Fi/BLE	

Model	SUN-SMART-TX01	SUN-SMART-TXU1
Electrical Parameters		
Input Voltage	DC 5V	
Communication		
Communication Model	LoRa	
Communication Distance	≈200m(Barrier free)	
Basic Parameters		
Operating Temperature Range	-40 to +60°C	
Permissible Ambient Humidity	0-100%	
Ingress Protection(IP) Rating	IP20(After installation IP65)	
Allowable Altitude	≤4000	
Product size (WxHxD)	137.8x31.3x31.3mm	
Weight	45.8g	
Warranty	2 Years	
Standard	IEC/EN 62368-1	
LoRa Parameters		
Frequency Range	863MHz-870MHz	920MHz-928MHz
Antenna	Built-in	
Antenna Gain	0.56dBi	

Model	SUN-SMART-CT02-WL
Electrical parameters	
Connection Type	L1/N(Single phase)，L1/L2/L3/N(Three phase)
CT (Rated Secondary Output)	50mA/5A
Operation Voltage	85~300Va.c.(L-N)
Rated Frequency/Range	50Hz(45Hz-55Hz)/60Hz(55Hz-65Hz)
Self Consumption Power	≤2W
AC voltage withstand	4KV/1min
Accuracy	
Voltage	±0.1V
Current	±0.01A
Frequency	±0.01Hz
Power	±1W
Communication and Display	
Communication Interface	LoRa/RS485/Wi-Fi
Lora Communication Distance	≈200m(Barrier free)
Display	LCD
Display Data	Voltage、Current、Active power、Reactive power、Frequency、Power Factor、Energy
General Data	
Operation Temperature	-40 to +60°C
Operation Humidity	0-75%
Ingress Protection (IP) Rating	IP20
Altitude	≤3000
Mounting	DIN-Rail Mounting
Size	36x94x64mm
Weight	0.12kg
Warranty	5 Years
Certification standards	IEC/EN 61010-1
Lora Data	
Frequency Range	863MHz-870MHz
Antenna	External Antenna
Antenna Gain	0.79dBi@868MHz
WIFI Data	
Frequency Range	2412MHz-2484MHz
Antenna	External Antenna

Energy Meter

Typical Application Diagram



Model	SDM630-M	SDM230-M	DTSU666 5(80)A, 1.5(6)A (Using 5(80)A Channel)	DDSU666 5(80)A
Electrical Characteristics				
Voltage Range	100-277V AC (L-N)/ 100-480V AC (L-L)	100-277V AC (L-N)	184-264V AC (L-N)/ 184-500V AC (L-L)	176-264V (L-N)
current range	≤100A	≤100A	≤80A	≤80A
Power Consumption	＜2W/10VA			
Frequency	50/60Hz			
Wiring	1P2W/3P3W/3P4W	1P2W	3P3W/3P4W	1P2W
Performance Criteria				
Operating Temperature	-40°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operation Humidity	≤ 90%, non-condensing		≤ 75%, non-condensing	
Altitude	≤ 2000m			
Accuracy				
Active Energy	Class 1	Class 0.5/1 or Class C/B	Class 1 (error within ±1%)	Class 1 (error within ±1%)
Voltage	±0.5%			
Current	±0.5%			
Active Power	±1%			
Communication				
Communication Type	RS485 Modbus RTU			
Baud Rate	2400-38400 bps (9600 bps default)		1200/2400/4800/9600 /19200/115200 bps (default value: 9600 bps)	1200/2400/4800/9600 bps (default value: 9600 bps)
Address Range	001 to 247			
Parity Bit	none (default)/ odd / even			
Specification				
Dimension	94.5mm×72mm×65mm	36mm×100mm×63mm	72mm×101mm×80mm	36mm×100mm×65.5mm
Installation mode	DIN 35mm rail mounted			

Model	DTSU666 5(80)A, 1.5(6)A (Using 1.5(6)A Channel)	DTSU666 100A/40mA	DTSU666 250A/50mA	DDSU666 100A/40mA
Electrical Characteristics				
Voltage Range	184V~264V AC (L-N)/ 184-500V AC (L-L)	184V~264V AC (L-N)	184V~264V (L-N)	176V~264V (L-N)
Max.Primary current	9999A	100A	250A	100A
Secondary current	1A/5A CT	40mA CT (Fixed CT ratio)	50mA CT （Fixed CT ratio）	40mA CT
Power Consumption	＜2W/10VA			
Frequency	50/60Hz			
Wiring	3P3W/3P4W			1P2W
Performance Criteria				
Operating Temperature	-40°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operation Humidity	≤ 75%, non-condensing			
Altitude	≤ 2000m			
Accuracy				
Active Energy	Class 1			
Voltage	±0.5%			
Current	±0.5%			
Active Power	±1%			
Communication				
Communication Type	RS485 Modbus RTU			
Baud Rate	1200/2400/4800/9600/ 19200/115200 bps (default value: 9600 bps)	1200/2400/4800/9600 bps (default value: 9600 bps)		
Address Range	001 to 247			
Parity Bit	none (default)/ odd / even			
Specification				
Dimension	72mm×101mm×80mm	72mm×100mm×65.5mm		36mm×100mm×65.5mm
Installation mode	DIN 35mm rail mounted			

Model	SDM630MCT ETL	SDM630MCT	SDM630MCT-40mA	SDM120CTM-40mA
Electrical Characteristics				
Voltage Range	100-277V AC (L-N)/ 100-480V AC (L-L)			176~277V AC (L-N)
Max.Primary current	9999A			
Secondary current	1A/5A CT		40mA CT	
Power Consumption	＜2W/10VA			
Frequency	50/60Hz			
Wiring	1P2W/1P3W/3P3W/3P4W		1P2W/3P3W/3P4W	1P2W
Performance Criteria				
Operating Temperature	-40°C to +70°C			
Storage Temperature	-40°C to +85°C			
Operation Humidity	≤ 90%, non-condensing			
Altitude	≤ 2000m			
Accuracy				
Active Energy	Class 1	Class 0.5S/1 or Class C/B	Class 1	Class 1
Voltage	±0.5%			
Current	±0.5%			
Active Power	±1%			
Communication				
Communication Type	RS485 Modbus RTU			
Baud Rate	2400-38400 bps (9600 bps default)			1200~9600 bps (2400 bps default)
Address Range	001 to 247			
Parity Bit	none (default)/ odd / even			
Specification				
Dimension	72mm×94.5mm×65mm			17.5mm×119mm×62mm
Installation mode	DIN 35mm rail mounted			

Stick Logger

LSW-6-A525530 LSW-5A5253
LSW-3A5251-C LSE-4WA5252

Smart Fault Management

- Fast fault diagnosis & troubleshooting
- Customizable fault alerts via SMS and email

Intelligent O&M

- Real-time data monitoring
- Remote firmware upgrade

Flexible Setup & Compatibility

- Compatible with most mainstream inverters
- Plug & Play for effortless setup

Comprehensive Protection

- IP65/IP66-rated for reliable outdoor operation
- Independent module design protects internal components

Model	LSW-6-A525530	LSW-5A5253	LSW-3A5251-C	LSE-4WA5252
Remote Communication Interface	Wi-Fi	Wi-Fi	Wi-Fi	Enternet+ Wi-Fi
Working Frequency	2.400 GHz ~ 2.4835GHz	2.412GHz~2.472GHz	2.412GHz~2.472GHz	2.412GHz-2.472GHz
Satellite Positioning	/	/	/	/
Antenna	/	Integrated PCB antenna	External Wi-Fi stick antenna	/
Data Interface	RS232	RS232	RS232	RS232
Working Voltage	DC5V-12V(±5%)	DC5V ~DC12V	DC5V-DC12V	DC 5-12V
Working Power	2W	1.5W	1.5W	1.5W
SIM Card	/	/	/	/
Memory	8MB FLASH	Default configuration: 8 MB of FLASH	2M	Default configuration: 4 MB of flash memory
Working Temperature	-30 to +70°C			
Working Humidity	10%~90% relative humidity, non-condensing			
No.of Connections	One			
Serial Communication Rate	9600 bps (adjustable from 1200 to 115200 bps)	9600 bp	Default setting: 9600 bps (Adjustable from 1200 to 115200 bps)	Default setting: 9600 bps (Adjustable from 1200 to 57600 bps)
Data Acquisition Interval	Default setting: 5 minutes			
User Configuration	App Configuration	AT+ command set	AT+ command set	AT+ command set
		Local web page configuration	Local web page configuration	Local web page configuration
	Remote server	Remote server		Remote server
		Bluetooth	Remote server	Bluetooth
Firmware Upgrade	Local upgrade Remote upgrade	Local web page update Remote update	Local web page update Remote update	Local web page update Remote update
Others	Real-time Control	Real-time control, breakpoint resume	Real-time Control Data resuming	Real-time control, breakpoint resume

Stick logger supports GPRS, WIFI, 4G, Ethernet and other communication modes. Its bluetooth function enables local debugging configuration to collect operation and power generation data from inverters.
It pairs with Deye Cloud professional platform to enable remote PV system monitoring and to realize distributed power station management with lower cost and higher efficiency.

Deye Data Logger

DL1000B-WIFI/4G/ETH

Easy-to-install

- Plug and play for effortless setup

Stable Data Acquisition

- Offline data auto backfill
- 1-minute data refresh interval

Flexible O&M

- Supports local & remote OTA
- Supports remote monitoring & operation
- Communication status diagnostics

Reliable & Secure Connectivity

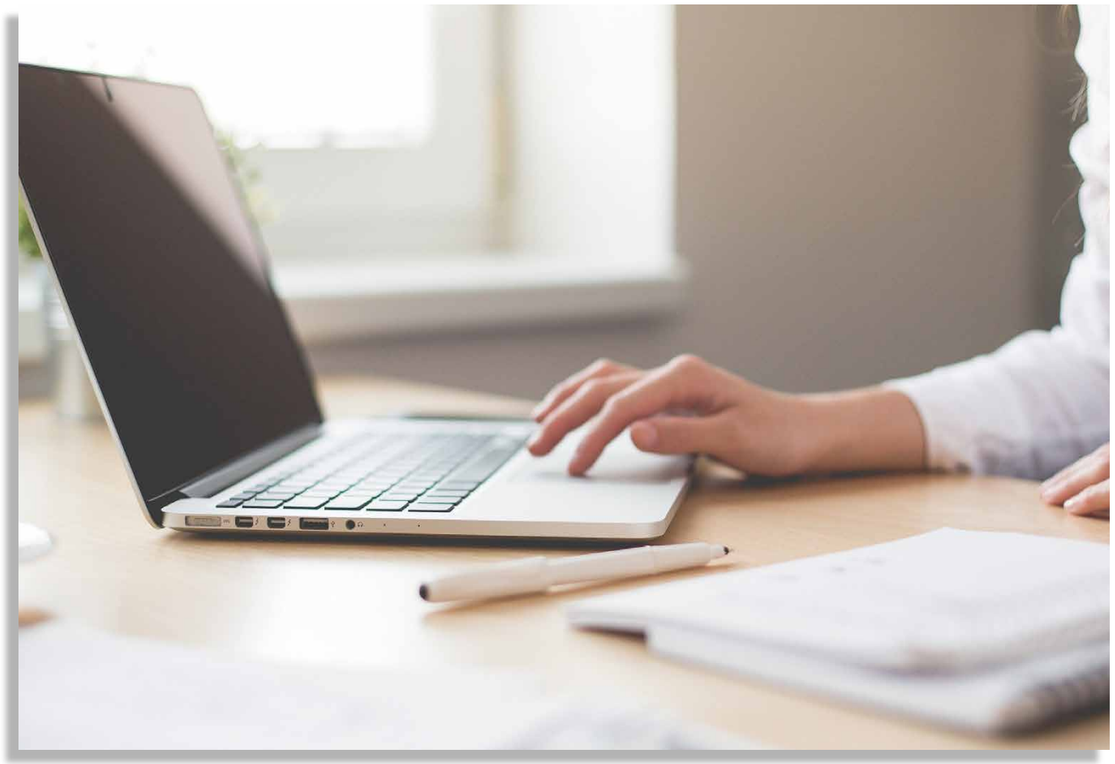
- High-reliability wireless design
- Encrypted data transmission
- Supports app local mode via Bluetooth

Model	DL1000B-WIFI
WIFI	
Operating frequency range	2400～2500MHz
TX power	802.11b:+14dBm～+18dBm(@11Mbps)
	802.11g:+13dBm～+16dBm(@54Mbps)
	802.11n:+11dBm±14dBm(@HT20,MCS7)
Antenna	Onboard antenna
BLE	
Protocols	BLE 5.3
Operating frequency range	2400～2500MHz
TX power	MAX： 18dBm
Hardware	
Data Interface	USB
Power supply voltage	DC 5V
Power dissipation	1.5W
LED	NET LED
	COM LED
Operating temperature	-40 to +65℃
Operating humidity	10%-90% (No Condensing)
Storage temperature range	-45 to +90℃
Storage humidity	<40%
Ingress Protection	IP65
Dimension (W×D×H)	116.6mm×70.5mm×30.5mm
Software	
Serial communication speed	Default :9600bps
Data collection interval	Default :1 minute (1-30 mins Optional)
User Configuration	AT Command
	Local web page configuration
	Remote Server
OTA	Local OTA
	Remote OTA
Others	Real-Time control, Data backfilling

Model	DL1000B-4G
4G	
AERA	EMEA
LTE-FDD	B1/3/5/7/8/20/28
LTE-TDD	B38/40/41
GSM	B2/3/5/8
Antenna	Build-in Antenna
BLE	
Protocols	BLE 4.2
TX power	MAX : 18dBm
Hardware	
Data Interface	USB
Power supply voltage	DC 5V
Power dissipation	3.5W
LED	NET LED
	COM LED
SIM	Nano SIM
Operating temperature	-30 to +70℃
Operating humidity	-10%-90% (No Condensing)
Storage temperature range	-40 to +85℃
Storage humidity	<40%
Ingress Protection	IP65
Dimension (W×D×H)	116.6mm×70.5mm×30.5mm
Software	
Serial communication speed	Default :9600bps
Data collection interval	Default :1 minute (1-15 mins Optional)
User Configuration	AT Command
	Remote Server
OTA	Remote OTA
Others	Real-Time control, Data backfilling

Model	DL1000B-ETH
ETH	
Speed	10M/100M
Max. communication range	100M (Direct connection)
WiFi	
Operating frequency range	2400 - 2483.5MHz
Communication protocol	IEEE 802.11b/g/n
TX Power	19.5dBm@11b, 1Mbps 19.5dBm@11b, 11Mbps 18dBm@11g, 6Mbps 14dBm@11g, 54Mbps 18dBm@11n, HT20, MCS0 13dBm@11n, HT20, MCS7 18dBm@11n, HT40, MCS0 13dBm@11n, HT40, MCS7
BLE	
Protocols	BLE 4.2
TX power	MAX: 9dBm
Hardware	
Data Interface	USB
Power supply voltage	DC 5V
Power dissipation	1.5W
LED	NET LED
	COM LED
Operating temperature	-40 to +65℃
Operating humidity	10%-90% (No Condensing)
Storage temperature range	-45 to +85℃
Storage humidity	<40%
Ingress Protection	IP65
Dimension (W×D×H)	116.6mm×70.5mm×30.5mm
Software	
Serial communication speed	Default :9600bps
Data collection interval	Default :1 minute (1-30 mins Optional)
User Configuration	AT Command
	Remote Server
OTA	Remote OTA
Others	Real-Time control, Data backfilling

Deye Cloud



Support the establishment, data collection, monitoring, operation, maintenance, and after-sales services for new energy power stations like photovoltaic, energy storage, and micro-inverters.

The Deye Smart Cloud Big Data platform enables transparent management of all power station types, enhancing their value.

It offers a variety of power station and equipment types, comprehensive monitoring, efficient troubleshooting, intelligent data analysis, energy flow visualization, and diverse management modes.

Additionally, our new data center feature allows collaboration with merchants for shared operation and maintenance, ensuring power station security and stability.

Deye Cloud

Harmony, Pragmatism, Innovation, Efficiency

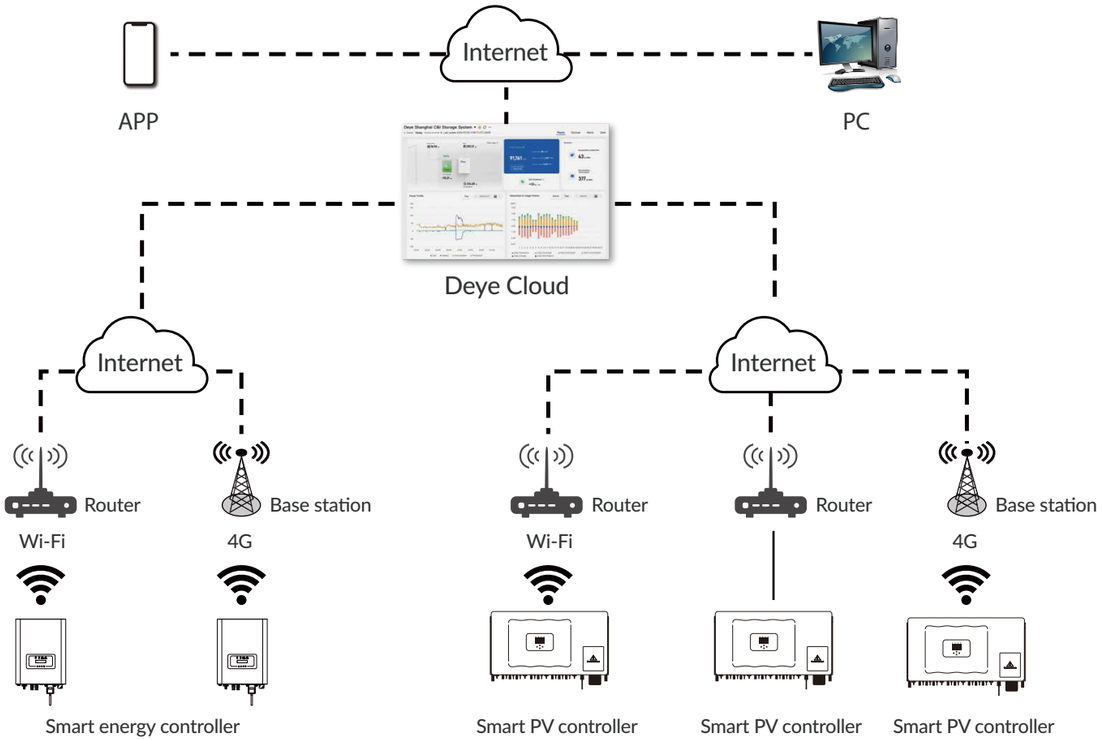
Scan QR code to download APP

All in one

·Supports multiple devices such as photovoltaic, batteries, wind turbines, power grids, micro-inverters, diesel generators, loads, UPS, and Smartload in all aspects;
·Supports both business users and owners in one APP.

Security

·Separate data centers in Europe and America;
·Comply with ETSI/EN 303645, GDPR.



PROJECT CASES

Indonesia

Inverter: SUN-12K-SG
Capacity: 12kW/20kWh

China

Inverter: SUN-110K-G
Capacity: 220kW

Brazil

Inverter: SUN-25K-G
Capacity: 50kW

Brazil

Inverter: SUN-80K-G
Capacity: 320kW

Australia

Inverter: SUN-5K-G
Capacity: 5kW

China

Inverter: SUN-110K-G
Capacity: 660kW

Australia

Inverter: SUN-8K-SG05LP1-AU
Battery: AI-W5.1-B-ESS
Capacity: 16kW/ 30kWh

South Africa

Inverter: SUN-50K-SG
Battery: BOS-G
Capacity: 50kW/55kWh

PROJECT CASES

Zimbabwe

Inverter: SUN-50K-SG01HP3
Battery: BOS-G/BOS-G Pro
Capacity: 500kW/500kWh

Italy

Inverter: SUN-6K-SG
Capacity: 6kW

Philippines

Inverter: SUN-12K-SG
Capacity: 120kW

India

Inverter: SUN-50K-SG
Capacity: 50kW

Zimbabwe

Inverter: SUN-80K-SG02HP3
Battery: BOS-G/BOS-G Pro
Capacity: 480kW/660kWh

Myanmar

Inverter: SUN-12K-SG
Capacity: 12kW

South Africa

Model: 125kW PCS*4 + MPPT*4 + 500kW STS*1
Battery: BOS-B*4
Capacity: 500kW/860kWh

China

Inverter: SUN-50K-SG01HP3-EU
Battery: BOS-G
Capacity: 50kW/100kWh