



Leading Inverter Manufacturer

String Inverter | Hybrid Inverter | Microinverter



Note:

The technical data above mentioned may be updated or revised due to product development.

The data in this brochure is subject to change without notice.

The latest datasheet and catalogue can be acquired via market@deye.com.cn

Ningbo Deye Inverter Technology Co., Ltd.

Address: No. 26 South YongJiang Road, Daqi, Beilun, NingBo, Zhejiang, China.

Tel: +86 (0)574 86228841 | Fax: +86 (0)574 86228852



Deye Inverter



www.deyeinverter.com



Market@Deye.com.cn

Ver:4.0.6.30.2025





Company Profile

1

Ningbo Deye Inverter Technology Co., Ltd., founded in 2007 with registered capital 56 million USD, is one of the China's high-tech enterprises and a subsidiary of Deye Group. With a plant area over 600,000m² and complete production and testing equipment, Deye has become a major player in the global solar inverter market.

2

Ningbo Deye Inverter Technology Co., Ltd is dedicated to providing complete photovoltaic power system solutions, including residential and commercial power plants solutions. Also, Deye offers solar energy storage system solutions. Among them, PV grid-connected inverter power range from 1-136kW, Hybrid inverter 3kW-80kW, and microinverter 300W-2250W.

3

As a technology-oriented company, Deye has always been committing to research and develop new cutting-edge technologies to provide efficiency and reliable products. For example, Deye adopts T-type three-level topology and enhanced SVPWM algorithm to further improve the conversion efficiency by 0.7% compared with common SPWM. With frequency droop control technology, Deye string inverter is able to work with diesel generator, which greatly expands the scope of the product application.

Milestones

2023

Cumulative shipments of hybrid inverters surpass **1 million** units.

2021

Deye Group was successfully listed on SSE of China in 2021, Stock Code **605117.SH**.

2017

Deye has launched first generation hybrid inverter and attracted a lot of attention with many unique features such as V/f droop control technology and battery DC / DC topology etc...

2024

Launch of the next-generation hybrid inverters and microinverters with a fresh design.

2022

Launched the latest generation of **50kW** hybrid inverter, equipped with independent two-way battery terminal port.

2019

By the end of 2019, with total shipments **30,000+**, Deye hybrid inverter has become Top 3 in South Africa, Pakistan and **Top 1** Chinese brand in USA.

2007

Founded in 2007 with registered capital of **56 million USD**.

Core Technology

Deye hybrid inverter 3-80kW with 208/230/240/400Vac

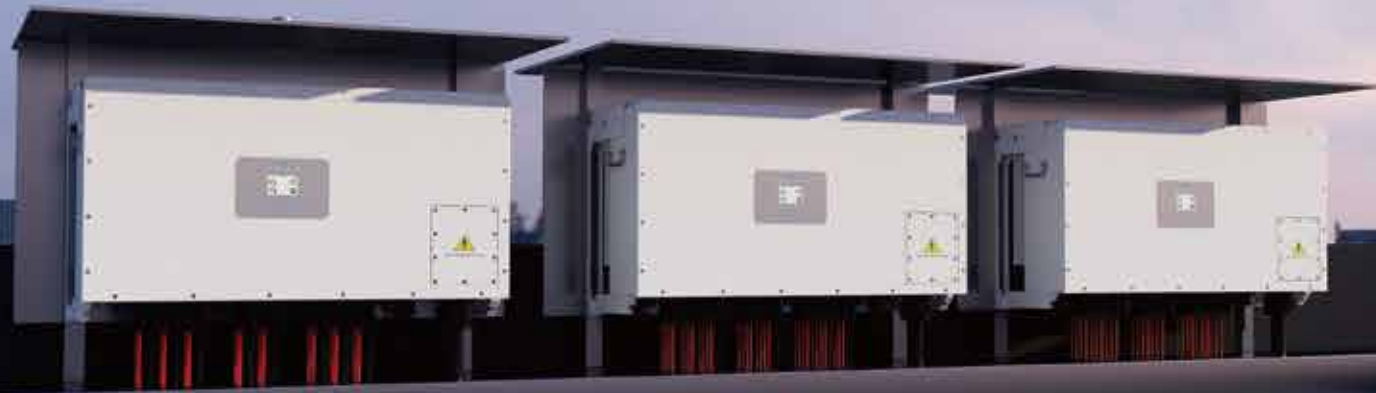
- ♦ Automatic switching time 4ms
- ♦ 6 time periods for battery charging/discharging
- ♦ V/f droop control, Max. 16pcs in parallel
- ♦ Supports using diesel generator to charge battery directly, ensuring system energy supply 7* 24H
- ♦ Max. conversion efficiency of 97.6%; Max. battery charge efficiency of 96.5%



Core Features

Deye grid-connected inverter 1-136kW

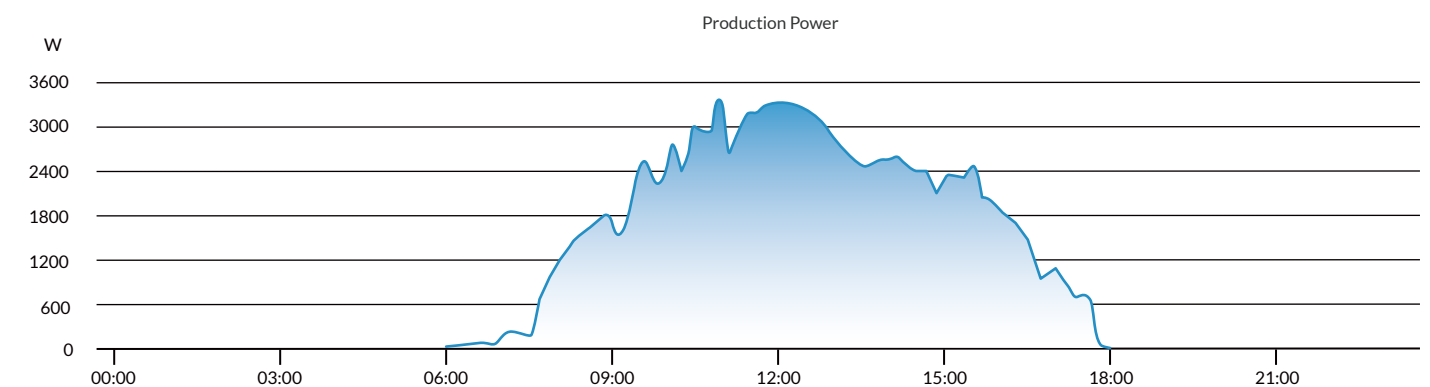
- ◆ Max. 8 MPP trackers, Max. efficiency up to 98.9%
- ◆ High DC/AC ratio 1.5 times for more yields
- ◆ Wide output voltage range 277-520Vac
- ◆ Zero export application, response speed within 0.5S
- ◆ T-type three-level topology and enhanced SVPWM
- ◆ Type II DC / AC SPD, frequency droop control technology
- ◆ Max. DC input current of 16A/string, adapt to 600W solar panel
- ◆ String intelligent monitoring (optional), Ani-PID function (Optional)



Main Highlights

Deye microinverter 300-2250W

- ◆ Support reactive power compensation, comply with UL code.
- ◆ Module level monitoring, Max. 4 MPPTs design
- ◆ Max. DC input current 18A, adapt to 790W PV module
- ◆ Rapid shutdown function, safe and reliable
- ◆ WIFI communication
- ◆ IP67 protection degree, 15 years warranty



Physical Layout

0W	200 W	180 W	150 W
170 W	170 W	280 W	250 W
270 W	280 W	260 W	240 W





Single Phase
String Inverter



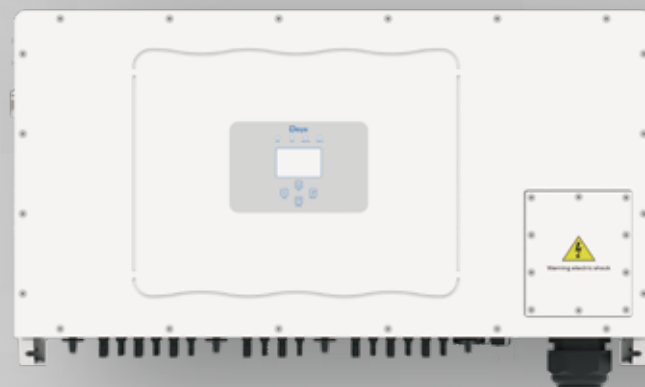
Microinverter



Three Phase
String Inverter (LV)



Single Phase
Hybrid Inverter



Three Phase
String Inverter



Three Phase
Hybrid Inverter



Accessory &
monitoring

Single Phase String Inverter

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



-  1 MPP tracker, Max. efficiency up to 97.5%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Low start-up voltage of 80V

Technical Data

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 Date										
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 Data										
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/range (V)	220/230 0.85Un-1.1Un									
Grid Connection Form	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										
Communication Interface	RS485/RS232									
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)									
General Data										
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating									
Permissible Ambient Humidity	0-100%									
Permissible Altitude (m)	2000m									
Noise (dB)	≤ 35 dB(A)									
Ingress Protection(IP) Rating	IP 65									
Inverter Topology	Non-Isolated									
Over Voltage Category	OVC II(DC), OVC III(AC)									
Cabinet Size (mm)	280W×272.5H×171.5D (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-3.6/4/4.6/5/6K-G04



2 MPP trackers, Max. efficiency up to 97.5%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)



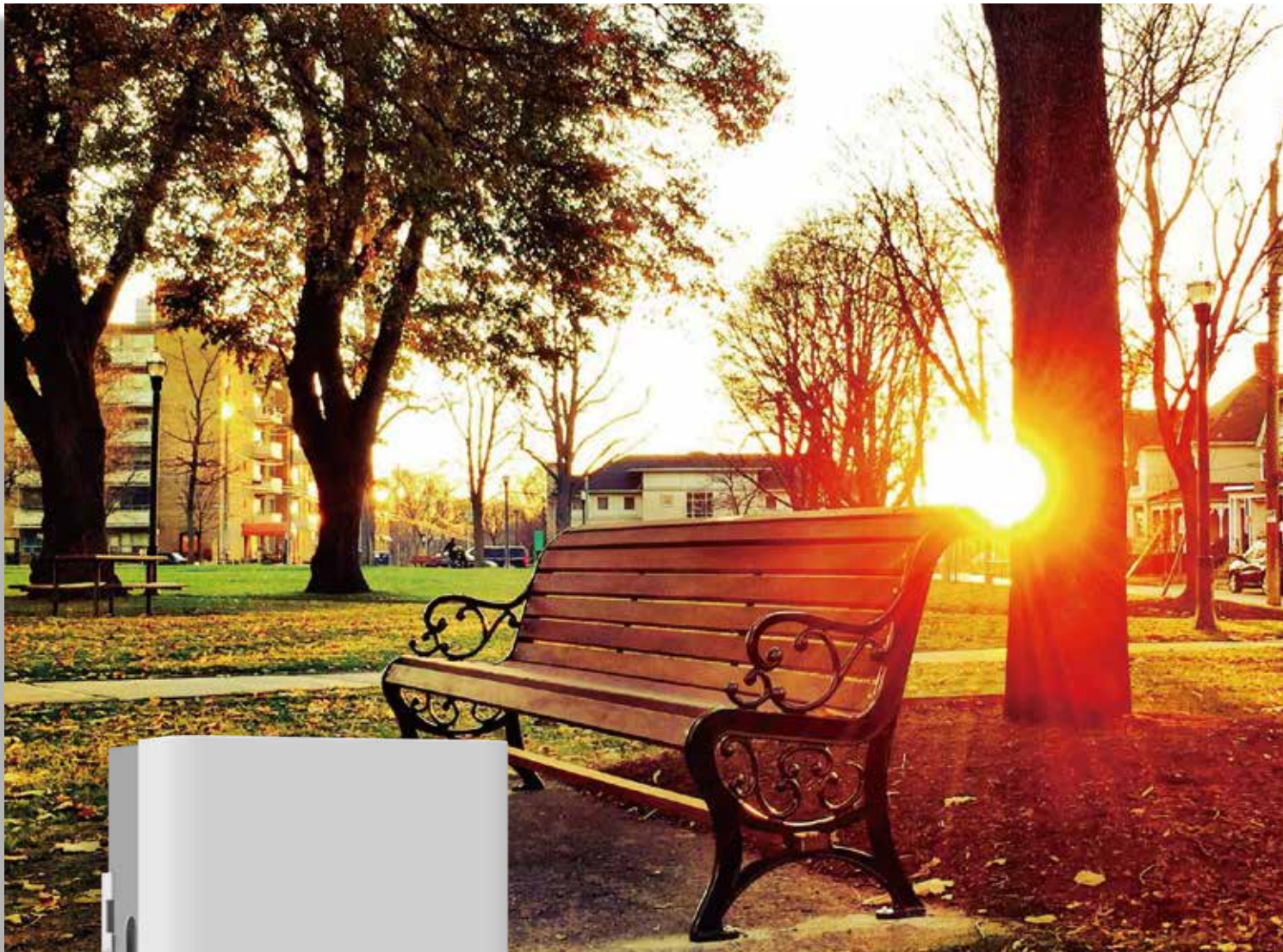
Low start-up voltage of 80V

Technical Data

Model	SUN-3.6K-G04	SUN-4K-G04	SUN-4.2K-G04	SUN-4.6K-G04	SUN-5K-G04	SUN-5.2K-G04	SUN-6K-G04	SUN-6.2K-G04
PV String Input Data								
Max. PV Input Power (kW)	4.7	5.2	5.46	5.98	6.5	6.76	7.8	8.06
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)	13+13							
Max. Input Short Circuit Current (A)	19.5+19.5							
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1							
AC Output Data								
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	20.9/20	22.7/21.7	23.7/22.7	27.3/26.1	28.2/27
Max. AC Output Current(A)	18/17.2	20/19.1	21/20.1	23/22	25/23.9	26/24.9	30/28.7	31/29.7
Rated Output voltage/range (V)	220/230 0.85Un-1.1Un							
Grid Connection Form	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								
Communication Interface	RS485/RS232							
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)							
General Data								
Operating Temperature Range (°C)	-25 to +65°C, >45°C Derating							
Permissible Ambient Humidity	0-100%							
Permissible Altitude (m)	2000m							
Noise (dB)	≤ 35 dB(A)							
Ingress Protection(IP) Rating	IP 65							
Inverter Topology	Non-Isolated							
Over Voltage Category	OVC II(DC), OVC III(AC)							
Cabinet Size (mm)	330W×323H×190D (Excluding Connectors and Brackets)							
Weight (kg)	8							
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							

Three Phase String Inverter

SUN-18/20/25K-G04



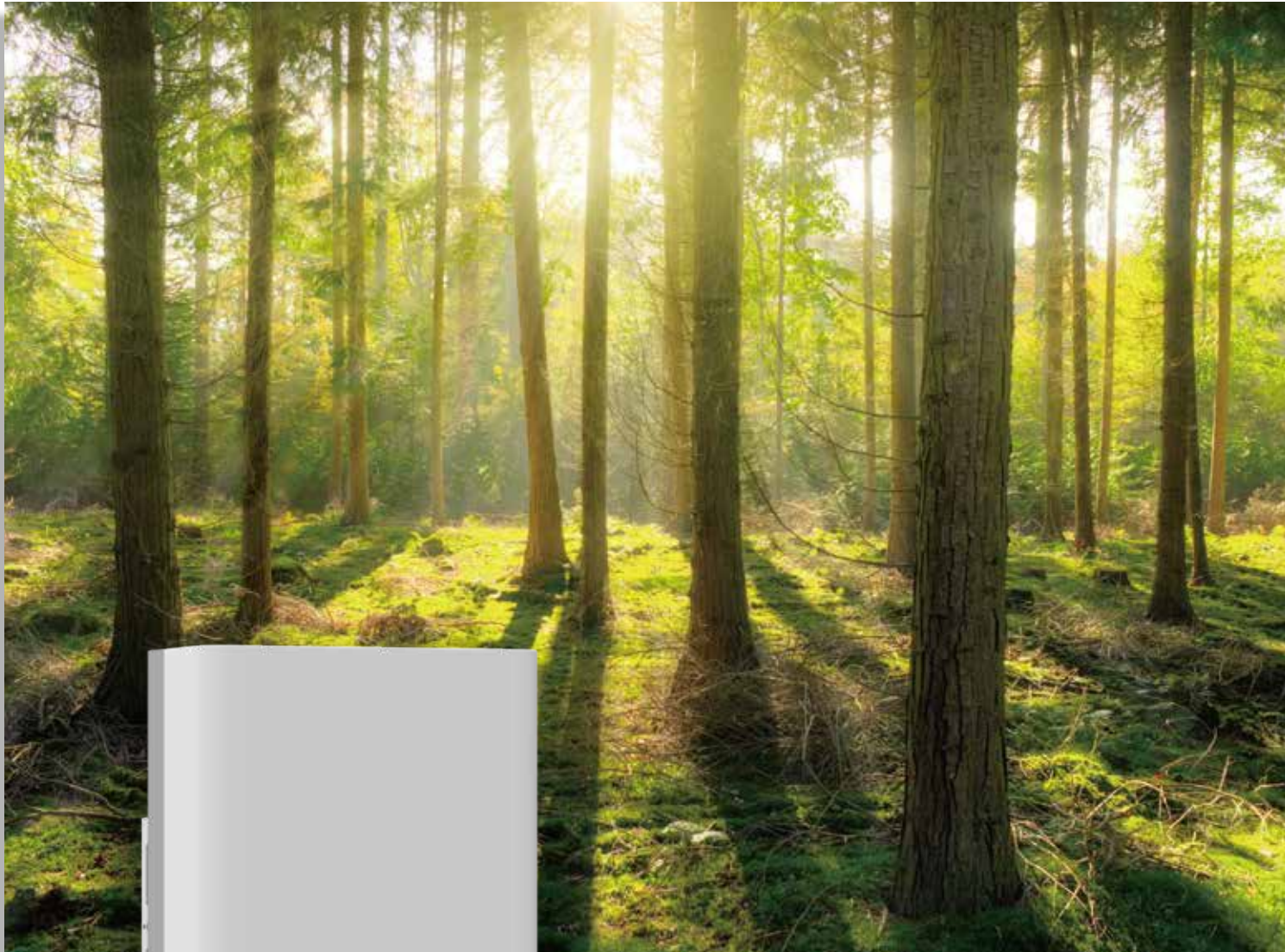
-  2 MPP trackers, Max. efficiency up to 98.6%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)

Technical Data

Model	SUN-18K-G04		SUN-20K-G04		SUN-25K-G04	
PV String Input Data						
Max. PV Input Power (kW)	23.4		26		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)	32+32					
Max. Input Short Circuit Current (A)	48+48					
No. of MPP Trackers/ No. of Strings MPP Tracker	2/2+2					
AC Output Data						
Rated AC Output Active Power(kW)	18		20		25	
Max. AC Output Apparent Power(kVA)	19.8		22		27.5	
Rated AC Output current (A)	27.3/26.1		30.3/29		37.9/36.2	
Max. AC Output Current(A)	30/28.7		33.3/31.9		41.7/39.8	
Rated Output voltage/range (V)	220/380V, 230/400V 0.85Un-1.1Un					
Grid Connection Form	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						
Communication Interface	RS485/RS232					
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)					
General Data						
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude (m)	2000m					
Noise (dB)	≤ 60 dB(A)					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (mm)	330W×572H×206 D (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, 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 String Inverter

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



2 MPP trackers, Max. efficiency up to 98.6%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (Optional)

Technical Data

Model	SUN-30K-G04		SUN-33K-G04		SUN-35K-G04		SUN-36K-G04	
PV String Input Data								
Max. PV Input Power (kW)	39		42.9		45.5		46.8	
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 Data								
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/range (V)	220/380V, 230/400V 0.85Un-1.1Un							
Grid Connection Form	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								
Communication Interface	RS485/RS232							
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)							
General Data								
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating							
Permissible Ambient Humidity	0-100%							
Permissible Altitude (m)	4000m							
Noise (dB)	≤ 60 dB(A)							
Ingress Protection(IP) Rating	IP 65							
Inverter Topology	Non-Isolated							
Over Voltage Category	OVC II(DC), OVC III(AC)							
Cabinet Size (mm)	330W×572H×206D (Excluding Connectors and Brackets)							
Weight (kg)	28.7							
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, 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 String Inverter

SUN-40/45/50K-G03



-  Max. 4 MPP trackers, Max. efficiency up to 98.7%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)

Technical Data

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. Input Short Circuit Current (A)	40+40+40		40+40+40+40	
Max. Operating PV Input 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 Data				
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/range (V)	220/380V, 230/400V 0.85Un-1.1Un			
Grid Connection Form	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				
Communication Interface	RS485/RS232			
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)			
General Data				
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating			
Permissible Ambient Humidity	0-100%			
Permissible Altitude (m)	4000m			
Noise (dB)	< 65 dB(A)			
Ingress Protection(IP) Rating	IP 65			
Inverter Topology	Non-Isolated			
Over Voltage Category	OVC II(DC), OVC III(AC)			
Cabinet Size (mm)	434W×570H×243D (Excluding Connectors and Brackets)			
Weight (kg)	39			
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, 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 String Inverter

SUN-60K-G04P3-EU-AM4



-  4 MPP trackers, Max. efficiency up to 98.7%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Type II DC/AC SPD

Technical Data

Model	SUN-60K-G04P3-EU-AM4
PV String Input Data	
Max. PV Input Power (kW)	90
Max. PV Input Voltage (V)	1100
Start-up Voltage (V)	250
MPPT Voltage Range (V)	200-1000
Rated PV Input Voltage (V)	600
Max. Input Short Circuit Current (A)	40+40+40+40
Max. Operating PV Input Current (A)	60+60+60+60
No. of MPP Trackers/ No. of Strings MPP Tracker	4/3+3+3+3
AC Output Data	
Rated AC Output Active Power(kW)	60
Max. AC Output Apparent Power(kVA)	66
Rated AC Output current (A)	90.9/87
Max. AC Output Current(A)	100/95.7
Rated Output voltage/range (V)	220/380V, 230/400V 0.85Un-1.1Un
Grid Connection Form	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	<0.5In
Efficiency	
Max. Efficiency	98.6%
Euro Efficiency	98.0%
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	
Communication Interface	RS485/RS232
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)
General Data	
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating
Permissible Ambient Humidity	0-100%
Permissible Altitude (m)	4000m
Noise (dB)	≤ 55 dB(A)
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
Over Voltage Category	OVC II(DC), OVC III(AC)
Cabinet Size (mm)	698×613×236.5D (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, 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 String Inverter

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



-  Max. 6 MPP trackers, Max. efficiency up to 98.8%
-  Zero export application, VSG application
-  String intelligent monitoring (optional)
-  Wide output voltage range
-  Anti-PID function (Optional)
-  Type II DC/AC SPD

Technical Data

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. Input Short Circuit Current (A)	40+40+40+40			40+40+40+40+40+40		
Max. Operating PV Input 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 Data						
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/range (V)	220/380V, 230/400V 0.85Un-1.1Un					
Grid Connection Form	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						
Communication Interface	RS485/RS232					
Monitor Mode	GPRS/WIFI/Bluetooth/4G/LAN(optional)					
General Data						
Operating Temperature Range (°C)	-25 to +60°C, >45°C Derating					
Permissible Ambient Humidity	0-100%					
Permissible Altitude (m)	4000m					
Noise (dB)	≤ 55 dB(A)					
Ingress Protection(IP) Rating	IP 65					
Inverter Topology	Non-Isolated					
Over Voltage Category	OVC II(DC), OVC III(AC)					
Cabinet Size (mm)	824W×516H×312.7D (Excluding Connectors and Brackets)					
Weight (kg)	81					
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, 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 Hybrid Inverter

SUN-3K-SG04LP1-24-EU-SM1

SUN-3K-SG04LP1-EU-SM1

SUN-3.6/5/6K-SG04LP1-EU-SM2



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 140A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Technical Data

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	40-60	40-60	40-60
Max. Charging Current (A)	140	70	90	120	135
Max. 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	6000	7200	10000	12000
Max. PV Input Power (W)	4800	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/Range (V)	220/230 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Grid Connection Form	L+N+PE				
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
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	2000m				
Noise (dB)	<30				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
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, 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				

*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-8K-SG05LP1-EU-SM2



-  Colorful touch LCD, IP65 protection degree
-  AC couple to retrofit existing solar system
-  Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
-  Max. charging/discharging current of 190A
-  6 time periods for battery charging/discharging
-  Support storing energy from diesel generator

Technical Data

Model	SUN-8K-SG05LP1-EU-SM2
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40-60
Max. Charging Current (A)	190
Max. Discharging Current (A)	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)	16000
Max. PV Input Power (W)	12800
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)	8000
Max. AC Input/Output Apparent Power (VA)	8800
Rated AC Input/Output Current (A)	36.4/34.8
Max. AC Input/Output Current (A)	40/38.3
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/Range (V)	220/230 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65
Grid Connection Form	L+N+PE
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection
Surge Protection Level	TYPE II(DC), TYPE II(AC)
Interface	
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	2000m
Noise (dB)	<30
Ingress Protection(IP) Rating	IP 65
Inverter Topology	Non-Isolated
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-10/12K-SG02LP1-EU-AM3



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 250A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Technical Data

Model	SUN-10K-SG02LP1-EU-AM3		SUN-12K-SG02LP1-EU-AM3	
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	220		250	
Max. Discharging Current (A)	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)	20000		24000	
Max. PV Input Power (W)	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			
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)	10000		12000	
Max. AC Input/Output Apparent Power (VA)	11000		13200	
Rated AC Input/Output Current (A)	45.5/43.5		54.6/52.2	
Max. AC Input/Output Current (A)	50/47.9		60/57.4	
Max. Continuous AC Passthrough (grid to load) (A)	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/Range (V)	220/230 0.85Un- 1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Grid Connection Form	L+N+PE			
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
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	2000m			
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)	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,G98,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-14/16K-SG01LP1-EU



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 290A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Technical Data

Model	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 Current (A)	250		290	
Max. Discharging Current (A)	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)	28000		32000	
Max. PV Input Power (W)	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)	14000		16000	
Max. AC Input/Output Apparent Power (VA)	15400		17600	
Rated AC Input/Output Current (A)	63.6/60.9		72.7/69.6	
Max. AC Input/Output Current (A)	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/Range (V)	220/230 0.85Un~1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Grid Connection Form	L+N+PE			
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
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	2000m			
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)	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, AS 4777.2, 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



Colorful touch LCD, IP65 protection degree



AC couple to retrofit existing solar system



Max. 16 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel



Max. charging/discharging current of 350A



6 time periods for battery charging/discharging



Support storing energy from diesel generator

Technical Data

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 Current (A)	220	250	290	350
Max. Discharging Current (A)	220	250	290	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)	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			
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/Range (V)	220/230 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Grid Connection Form	L+N+PE			
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
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)	464×763×282 (Excluding Connectors and Brackets)			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, AS 4777.2, 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



- 100** 100% unbalanced output, max. output up to 50% rated power for each phase
- AC couple** to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 240** Max. charging/discharging current of 240A
- 48** 48V low voltage battery, transformer isolation design
- 6** 6 time periods for battery charging/discharging
- Support** storing energy from diesel generator

Technical Data

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 Current (A)	120	150	190	210	240
Max. 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/Range (V)	220/380V, 230/400V 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Grid Connection Form	3L+N+PE				
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
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	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)	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, 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-14/15/16/18/20K-SG05LP3-EU-SM2



- 100

100% unbalanced output, max. output up to 50% rated power for each phase
- AC couple to retrofit existing solar system
- 10

Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 350

Max. charging/discharging current of 350A
- 48

48V low voltage battery, transformer isolation design
- 6

6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Technical Data

Model	SUN-14K-SG05LP3 -EU-SM2	SUN-15K-SG05LP3 -EU-SM2	SUN-16K-SG05LP3 -EU-SM2	SUN-18K-SG05LP3 -EU-SM2	SUN-20K-SG05LP3 -EU-SM2
Battery Input Data					
Battery Type	Lead-acid or Lithium-ion				
Battery Voltage Range (V)	40-60				
Max. Charging Current (A)	260	280	300	330	350
Max. 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/Range (V)	220/380V, 230/400V 0.85Un-1.1Un				
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Grid Connection Form	3L+N+PE				
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection				
Surge Protection Level	TYPE II(DC), TYPE II(AC)				
Interface					
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)	<60				
Ingress Protection(IP) Rating	IP 65				
Inverter Topology	Non-Isolated				
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



- 100** 100% unbalanced output
- AC couple** to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 50** Max. charging/discharging current of 50A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
- Support** storing energy from diesel generator

Technical Data

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 Current (A)	30	30	37				50	
Max. Discharging Current (A)	30	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	37.9/36.3
Max. AC Input/Output Current (A)	8.4/8	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/Range (V)	220/380V, 230/400V 0.85Un-1.1Un							
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65							
Grid Connection Form	3L+N+PE							
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection							
Surge Protection Level	TYPE II(DC), TYPE II(AC)							
Interface								
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	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, 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-25/29.9/30K-SG02HP3-EU-AM3



- 100

100% unbalanced output
- AC couple to retrofit existing solar system
- 10

Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 75

Max. charging/discharging current of 75A
- H

High voltage battery, higher efficiency
- 6

6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Technical Data

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 Current (A)	75					
Max. 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. DC Input Power (W)	40000	47840	48000			
Max. DC Input Voltage (V)	1000					
Start-up Voltage (V)	180					
MPPT Voltage Range (V)	150-850					
Rated DC 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/Range (V)	220/380V, 230/400V 0.85Un-1.1Un					
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65					
Grid Connection Form	3L+N+PE					
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection					
Surge Protection Level	TYPE II(DC), TYPE II(AC)					
Interface						
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)	448x688x 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-30K-SG01HP3-EU-BM3
SUN-40/50K-SG01HP3-EU-BM4



- 100

100% unbalanced output
- AC couple to retrofit existing solar system
- 10

Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 100

Max. charging/discharging current of 100A
- H

High voltage battery, higher efficiency
- 6

6 time periods for battery charging/discharging
- Support storing energy from diesel generator

Technical Data

Model	SUN-30K-SG01HP3 -EU-BM3		SUN-40K-SG01HP3 -EU-BM4		SUN-50K-SG01HP3 -EU-BM4	
Battery Input Data						
Battery Type						Lithium-ion
Battery Voltage Range (V)						160-800
Max. Charging Current (A)						50+50
Max. 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)	60000		80000		100000	
Max. PV Input Power (W)	48000		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)	30000		40000		50000	
Max. AC Input/Output Apparent Power (VA)	33000		44000		55000	
Rated AC Input/Output Current (A)	45.5/43.5		60.7/58		75.8/72.5	
Max. AC Input/Output Current (A)	50/47.9		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/Range (V)						220/380V, 230/400V 0.85Un-1.1Un
Rated Input/Output Grid Frequency/Range(Hz)						50/45-55, 60/55-65
Grid Connection Form						3L+N+PE
Total Current Harmonic Distortion THDi						<3% (of nominal power)
DC Injection Current						<0.5% In
Efficiency						
Max. Efficiency						97.60%
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection
Surge Protection Level						TYPE II(DC), TYPE II(AC)
Interface						
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						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-60/70/75/80K-SG02HP3-EU-EM6



- 100** 100% unbalanced output
- AC couple** AC couple to retrofit existing solar system
- 10** Max. 10 pcs parallel for on-grid and off-grid operation; Support multiple batteries parallel
- 160** Max. charging/discharging current of 160A
- H** High voltage battery, higher efficiency
- 6** 6 time periods for battery charging/discharging
- Support** Support storing energy from diesel generator

Technical Data

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 Current (A)	80+80			
Max. 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	121.3/115.9
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/Range (V)	220/380V, 230/400V 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Grid Connection Form	3L+N+PE			
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 (optional), Anti-islanding Protection, DC Switch, Insulation Impedance Detection, Residual Current Detection			
Surge Protection Level	TYPE II(DC), TYPE II(AC)			
Interface				
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	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			

Microinverter

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



- ✓ 1 MPP tracker, module level monitoring
- ✓ IP67 protection degree
- ✓ WIFI communication
- ✓ Rapid shutdown function
- ✓ Easy installation, suitable for quick-plug balcony PV system
- ✓ <100ms AC fast discharge, compliant with new required standard DIN VDE 0620-1 (<200ms) to protect human safety
- ✓ Complete NS protection with self-check function
- ✓ External relay advantage with low temperature, long life, easier maintenance
- ✓ 25 years design lifetime and 10 years warranty
- ✓ With integrate WIFI

Technical Data

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 Piece)	210-560(1 Piece)	210-700(1 Piece)
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		1/1	
AC Output Side			
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
Rated Output Voltage/Range (V)		220/230 0.85Un-1.1Un	
Grid Connection Form		L+N+PE	
Rated Output Grid Frequency/Range(Hz)		50/45-55, 60/55-65	
Max. Unit per Branch	17	13	10
Power Factor Adjustment Range		0.9 leading-0.9 lagging	
Total Current Harmonic Distortion THDi		<3%	
DC Injection Current		<0.5In	
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 (mm)		173W×158.5H×31.5D (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, 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	

Microinverter

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



- ✓ 2 MPP tracker, module level monitoring
- ✓ IP67 protection degree
- ✓ WIFI communication
- ✓ Rapid shutdown function
- ✓ Easy installation, suitable for quick-plug balcony PV system
- ✓ <100ms AC fast discharge, compliant with new required standard DIN VDE 0620-1 (<200ms) to protect human safety
- ✓ Complete NS protection with self-check function
- ✓ External relay advantage with low temperature, long life, easier maintenance
- ✓ 25 years design lifetime and 10 years warranty
- ✓ With integrate WIFI

Technical Data

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 Side				
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	
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un			
Grid Connection Form	L+N+PE			
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Max. Unit per Branch	8	6	5	
Power Factor Adjustment Range	0.9 leading-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 (mm)	280.5W×190H×40D (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, 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			

Microinverter

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



- 18

Max. DC input current of 18A, adapt to 770W PV module
- IP67 protection degree, 10 years warranty
- 4 MPP trackers, module level monitoring
- Wi-Fi communication
- Rapid shutdown function

Technical Data

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 Side					
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
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un				
Grid Connection Form	L+N+PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Max. Unit per Branch	5	4	3	3	3
Power Factor Adjustment Range	0.9 leading-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)				
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)				
Communication	Wi-Fi				
Cabinet Size (WxHxD mm) (Excluding Connectors and Brackets)	311×250.5×36.5				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, 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				

Microinverter

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



- Wireless wifi communication, no wiring required
- Bidirectional measurement can record electricity consumption data while also preventing backflow
- IP67 protection degree, 10 years warranty
- 18 Max. DC input current of 18A, adapt to 770W PV module
- 4 MPP trackers, module level monitoring
- Rapid shutdown function

Technical Data

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 Side					
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
Rated Output Voltage/Range (V)	220/230 0.85Un-1.1Un				
Grid Connection Form	L+N+PE				
Rated Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65				
Max. Unit per Branch	5	4	3	3	3
Power Factor Adjustment Range	0.9 leading-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				
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				

Micro Hybrid Inverter

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



- ✓ IP67 protection degree
- ✓ WIFI communication
- ✓ Wireless CT, Wireless Smart Switch and Wireless BMS communication
- ✓ AC couple to retrofit existing solar system
- ✓ Max. charging/discharging current 25A
- ✓ Expand two independent PV inputs
- ✓ Working in Microinverter mode or storage inverter mode
- ✓ Supports UPS load, fast switching within 4ms

Technical Data

Model	SUN-BK60SG01-EU-AM2		SUN-BK80SG01-EU-AM2	SUN-BK100SG01-EU-AM2
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40-60			
Max. Charging Current (A)	25			
Max. 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 per MPP Tracker	2/1			
AC Input/Output Data				
Rated AC Input/Output Active Power (W)	600	800	1000	
Max. AC Input/Output Active Power (W)	660	880	1100	
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/Range (V)	220/230 0.85Un-1.1Un			
Rated Input/Output Grid Frequency/Range(Hz)	50/45-55, 60/55-65			
Grid Connection Form	L+N+PE			
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)			
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)			
Communication	Wi-Fi, Lora, Bluetooth			
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			

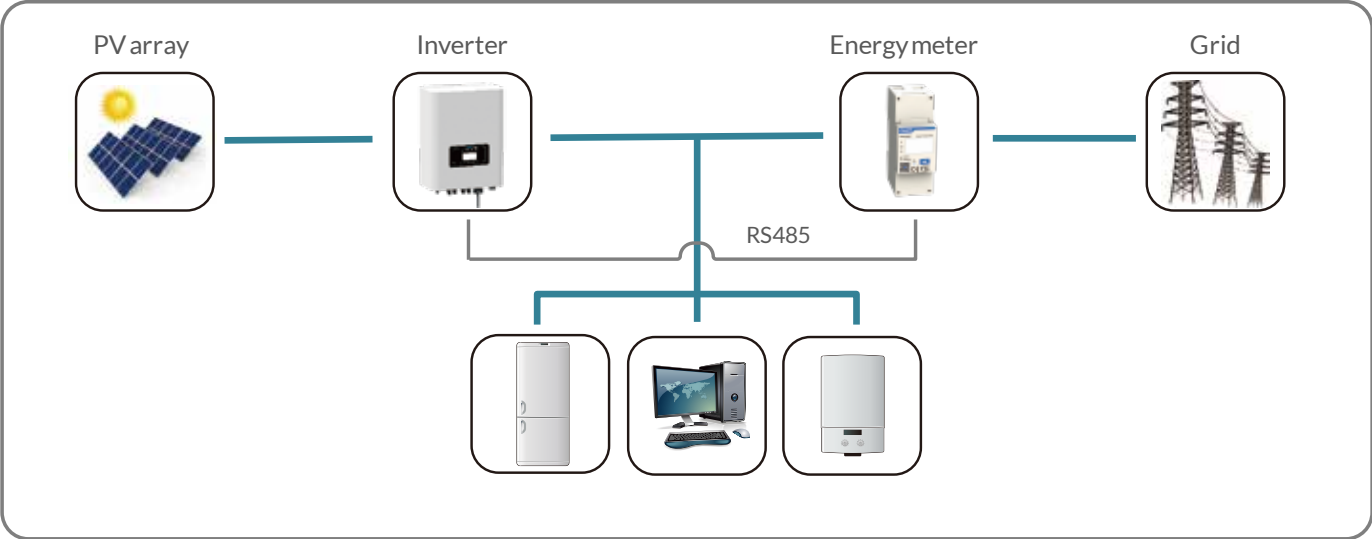
Energy Meter



Technical Data

Model	CHNT DDSU666	CHNT DTSU666	EASTRON SDM 230 Modbus	EASTRON SDM 630-Modbus V2	EASTRON SDM 630 MCT
Battery Data					
Max. direct current measurement (A)	60	80	100	100	1-9999A (with CT)
Direct Voltage measurement between phases	/	176-458V	/	147-480V	50-950V
					50-550V
Direct measurement between phase and neutral	176-264V	100-265V	176-276V	85-480V	20-550V
Accuracy Class					
Active power	Class1				
Reactive power	Class2				
Power Supply					
Power consumption	≤1W / 8VA	≤1.5W / 6VA	≤2W / 10VA	≤2W / 10VA	≤2W / 10VA
AC power supply input voltage	176-264V	100-265V	176-276V	85-480V	85-275V / 120-380V
AC power supply input frequency	50/60Hz		50Hz	50/60Hz ±2%	50/60Hz ±2%
Generation Specifications					
Dimenstions (L/H/W) in mm	36×85×66	100×72×66	36×99×63	72×100×66	72×94.5×65
Weight (kg)	0.21	0.44	0.21	0.42	0.29
Mounting options	DIN Rail				
Degree of protection	IP51				
Display	LCD				
Communication interface	RS485				
Max. number of devices to connect	32				
Regulated working temperature range	-25-55°C	-10-45°C	-25-55°C		
Limited working temperature range	-40-70°C	25-75°C	/		
Humidity	≤75%		0~95%, non-Condensing		
Warranty	1.5 years				

Typical Application Diagram



Stick Logger

GPRS / WIFI / 4G / Ethernet

Monitor your system anywhere in the world.



- ◆ External light indicator, logging status at a glance;
- ◆ Plug & play, pick power within inverter, no external power needed, easy to install;
- ◆ Independent from inverter to protect parts inside inverter, eliminate potential problems;
- ◆ IP65 water-proof design, resistant to bad weather, enhance stability;
- ◆ External design, easier to replace faulty equipment;
- ◆ End-user can monitor yields at any time with SOLARMAN APP.

Technical Data

Product Model	LSG-3	LSG-4	LSW-3	LS4G-3	LSE-3
Remote Communication Interface	GPRS	GPRS	WiFi	4G	LAN
Working Frequency	GSM850 / EGSM900 / DCS1800 / PCS 1900MHz	GSM850 / EGSM900 / DCS1800 / PCS 1900MHz	2.142GHz-2.484GHz	704MHZ-960MHZ 1710MHZ-2690MHZ	Adaptive Network; 10M / 100M
Satellite Positioning	/	GPS / Beidou < 15m	/	/	/
Antenna	External GPRS Stick Antenna	External GPRS Stick Antenna	External WiFi Stick Antenna	External 4G Stick Antenna	/
Data Interface	RS485 / RS232 / TTL				
Working Voltage	DC4.7V~DC15V				
Working Power	3W	3W	1.5W	5W	1W
SIM Card	Chip Card / MicroSIM	Chip Card / MicroSIM	/	MicroSIM	/
Memory	2M Flash (2M-16M Optional)				
Working Temperature	-40°C-85°C				
Working Humidity	< 90% (No Condensing)				
No.of Connections	One				
Serial Communication Rate	bps (1200-115200bps Configurable)				
Data Acquisition Interval	Default 5min (1-15min Configurable)				
User Configuration	AT+InstructionSet				
	Remote Server				
	Bluetooth	APP / Web		Local Serial Port	Web
Firmware Upgrade	Remote Upgrade				
Others	Real-time Control, Data resuming				

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 solarman professional platform to enable remote PV system monitoring and to realize distributed power station management with lower cost and higher efficiency.

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.



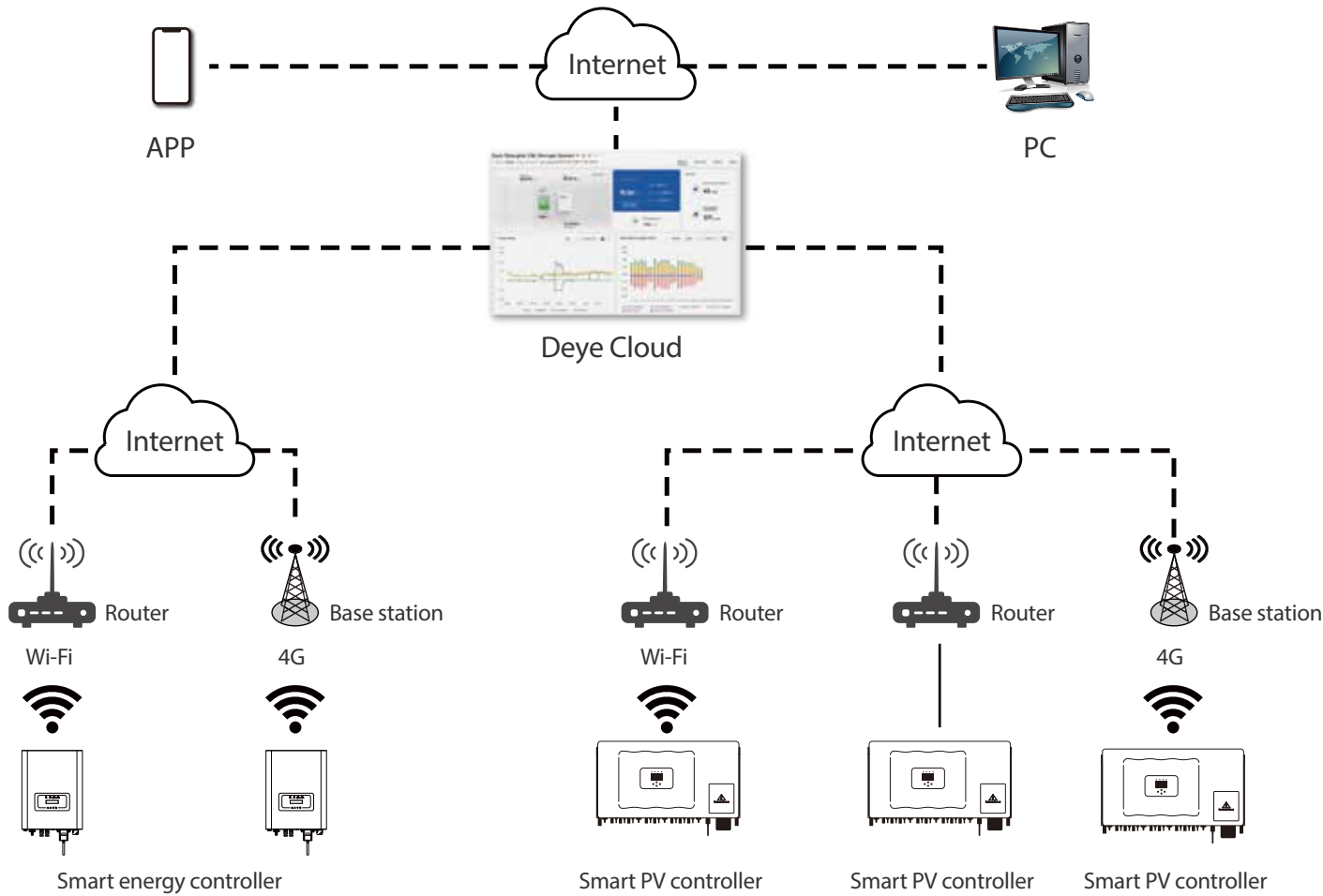
All in one

- 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.





- ▶ 20kW
- ▶ Germany
- ▶ SUN-10K-G



- ▶ 220kW
- ▶ China
- ▶ SUN-110K-G



- ▶ 5kW
- ▶ Australia
- ▶ SUN-5K-G

Project cases



- ▶ 660kW
- ▶ Ching
- ▶ SUN-110K-G



- ▶ 50kW
- ▶ Brazil
- ▶ SUN-25K-G

Project cases



- ▶ 320kW
- ▶ Brazil
- ▶ SUN-80K-G



- ▶ 16kW
- ▶ South Africa
- ▶ SUN-8K-SG



- ▶ 150kW
- ▶ South Africa
- ▶ SUN-50K-SG

- ▶ 32kW
- ▶ South Africa
- ▶ SUN-8K-SG



- ▶ 6kW
- ▶ Italy
- ▶ SUN-6K-SG

Project cases



- ▶ 48kW
- ▶ Lebanon
- ▶ SUN-12K-SG



- ▶ 12kW
- ▶ Myanmar
- ▶ SUN-12K-SG

- ▶ 120kW
- ▶ Philippines
- ▶ SUN-12K-SG



- ▶ 50kW
- ▶ India
- ▶ SUN-50K-SG



- ▶ 12kW
- ▶ Vietnam
- ▶ SUN-12K-SG