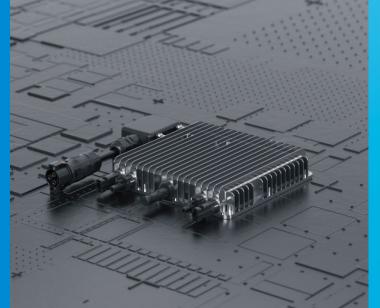
#### Microinverter 300W-2250W

panied by one, two, or four-way Maximum Power Point Tracking (MPPT

eve Microinverters provide a more cost-effective and convenient solution for

















#### Microinverter







210-700(2 Piece)

220/230 0.85Un-1.1Un L/N/PE

50/45-55, 60/55-65



M130 M160 M180 M200 M220 M225

210-790(4 Piece)

18+18+18+18 27+27+27+27

1300 1600 1800 2000 2200 2250 220/230 0.85Un-1.1Un

L/N/PE

50/45-55, 60/55-65

Mode	M30
PV String Input Data	11
Max. PV Input Power(W) Max. PV Input Voltage(V) Start-up Voltage(V) MPPT Voltage Range(V) Rated PV Input Voltage(V) Max. Operating PV Input Current (A) Max. Input Sort Circuit Current (A) No. of MPP Trackers/ No. of Strings MPP Tracker AC Output Side	21
Rated AC Output Active Power(W)	300
Max. AC Output Apparent Power(VA)	300
Rated Output Voltage/Range (V)	220/2
Grid Connection Form	
Rated Output Grid Frequency /Range(Hz)	50/4
Max. Unit per Branch	17
Power Factor Adjustment Range	0.9 lea
General Data	
Operating Temperature Range(°C)	-40 to +6

Start-up Voltage(V)	
MPPT Voltage Range(V)	
Rated PV Input Voltage(V)	
Max. Operating PV Input Current (A)	
Max. Input Short Circuit Current (A)	
No. of MPP Trackers/ No. of Strings MPP Tracker	
AC Output Side	
Rated AC Output Active Power(W)	300
Max. AC Output Apparent Power(VA)	300
Rated Output Voltage/Range (V)	220/2
Grid Connection Form	
Rated Output Grid Frequency /Range(Hz)	50/
Max. Unit per Branch	17
Power Factor Adjustment Range	0.9 le
General Data	
Operating Temperature Range(°C)	-40 to +
Ingress Protection(IP) Rating	
Over Voltage Category	OVC
Communication	
Weight(kg)	
Warranty	
Type of Cooling	N.

130	M40	M50	
11	MPPT/1 Par	nel	
210	0-700(1 Pie	ce)	
	60		
	20		
	25-55		
	42.5		
	13+13		
	19.5+19.5		
	1/1		
300	400	500	

Data	11	irr i/irai	Z MITT 1/2 T a			
er(W)	210	)-700(1 Pied		210	-700(2 Pi	
age(V)		60			60	
(V)		20				20
ge(V)		25-55				25-55
age(V)		42.5				42.5
Current (A)		13+13				13+13
Current (A)		19.5+19.5				19.5+19.5
ers/ Fracker		1/1				2/1
de						
Power(W)	300	400	500		600	800
Power(VA)	300	400	500		600	800
Range (V)	220/2	30 0.85Un-	1.1Un		220/2	30 0.85Ur
orm	L/N/PE					L/N/PE
equency	50/4	50/45-55, 60/55-65				15-55, 60/
inch	17	13	10		8	6
ent Range	0.9 lea	0.9 leading-0.9 lagging				ading-0.9
ı						
Range(°C)	-40 to +6	5°C. >45°C [	-40 to +6	5°C. >45°C		



#### **Deye Cloud** All-in-one Energy & Device **Management Platform**











**Micro Hybrid Inverter** SUN-BK60/80/100SG01-EU-AM2

NEW



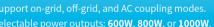














#### Ningbo Deye Inverter Technology Co., Ltd.

Address: No. 26 South YongJiang Road, Daqi, Beilun, NingBo, Zhejiang, China. Tel: +86 (0)574 86228841 | Fax: +86 (0)574 86228852













Ningbo Deye Inverter Technology Co., Ltd, founded in 2007 with registered capital 56 million USD, is one of the China's hightech enterprises and a subsidiary of Deye Group. With a plant area over 600,000 m<sup>2</sup> and complete production and testing equipment, Deye has become a major player in the global solar inverter market.

Ningbo Deye Inverter Technology Co., Ltd is dedicated to providing complete photovoltaic power system solutions, including residential and commercial power plants solutions. Also, Deve offers solar energy storage system solutions. Among them, PV grid-connected inverter power range from 1-136kW, Hybrid inverter 3kW-80kW, and microinverter 300W-2200W.

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

technology andbattery DC / DC topology etc...

inverter and attracted Deye hybrid inverter has on SSE of China in hybrid inverter, equipped surpass 1 million units. a lot of attention with become Top 3 in South 2021, **Stock Code** with independent two many unique features Africa, Pakistan and Top 1 such as V/f droop control Chinese brand in USA

605117.SH. way battery terminal port.

with a fresh design







#### **String Inverter** 1-136kW

Deve string inverters provide 1-136kW power options, featuring string monitoring, AFCI, zero export,

Their flexible design meets diverse needs, from residential to commercial and industrial PV projects.



### **Hybrid Inverter** 3-80kW

nare in countries such as South Africa. They provide accessible, highly reliable, dential to commercial energy storage applications.



	Single Phase S	String Inverter	Three Phase String Inverter				
				d			
Model	- 11 -						
	3.6-6.2kW	9-10.5kW	3-15kW	60-80kW	120-136kW		
PV String Input Data			P1				
Max. PV Input Power(kW)	5.4-9.3	13.5-15.8	4.5-22.5 4.5-22.5	90-120	180-204		
Max. PV Input Voltage(V)	550	550	1100 1100	1100	1100		
Start-up Voltage(V)	80	80	140 140	250	250		
MPPT Voltage Range(V)	70-500	70-500	120-1000 120-1000	200-1000	200-1000		
Rated PV Input Voltage(V)	360	360	600 600	600   720	600		
flax. Operating PV Input Current(A)	18	26+26	26 26	40	40		
Max. Input Short Circuit Current(A)	27+27	39+39	30+30 30+39 19.5+19.5 19.5+39	60+60+60	60+60+60+60+60+60+60		
	21.21	33.33	2/1+1 2/1+1	4/3+3+3			
No. of MPP Trackers/ No. of Strings MPP Tracker	2/1+1	2/2+2	2/1+2 2/1+2	4/4+4+4	8/4+4+4+4+4+4+4		
AC Output Side							
Rated AC Output Active Power(kW)	3.6-6.2	9-11	3-15	60-80	120-136		
Max. AC Output Apparent Power(kVA)	3.96-6.82	9.9-11.55	3.3-16.5	66-88	132-136		
Rated output voltage/range (V)	220/230 0.85Un-1.1Un	220/230 0.85Un-1.1Un	220/380, 230/400 0.85Un-1.1Un	220/380, 230/400 0.85Un-1.1Un	220/380, 230/400 0.85Un-1.1Un		
Grid Connection Form	L/N/PE	L/N/PE	3L/N/PE	3L/N/PE	3L/N/PE		
Rated Output Grid Frequency/range(Hz)	50/45-55, 60/55-65	50/45-55, 60/55-65	50/45-55, 60/55-65	50/45-55, 60/55-65	50/45-55, 60/55-65		
Power Factor Adjustment Range	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging	0.8 leading to 0.8 lagging		
Efficiency							
Max. Efficiency	97.3%   97.5%	97.7%	98.1%-98.5%	98.6%   98.7%	98.8%		
Euro Efficiency	96.9%   97%	97.2%	97.5%-98%	98.0%   98.1%	98.2%		
MPPT Efficiency	>99%	>99%	>99%	>99%	>99%		
,	~35%	~33%0	~9970	~9370	~5570		
Interface							
Communication Interface	RS485/RS232	RS485/RS232	RS485/RS232	RS485/RS232	RS485/RS232		
Monitor Mode	GPRS/WIFI/Bluetooth /4G/LAN(optional)	GPRS/WIFI/Bluetooth /4G/LAN(optional)	GPRS/WIFI/Bluetooth /4G/LAN(optional)	GPRS/WIFI/Bluetooth /4G/LAN(optional)	GPRS/WIFI/Bluetooth /4G/LAN(optional)		
General Data							
Operating Tomporature Day 25/90\	2E to 160°C > 45°C D	2E to 16000 >4500 D	2E to 16000 >4500 D1	25 to 160%C > 45%C D	25 to 16000 t 4500 D !		
Operating Temperature Range(°C) Permissible Ambient Humidity	-25 to +60°C, >45°C Derating 0-100%	-25 to +60°C, >45°C Derating 0-100%	-25 to +60°C, >45°C Derating 0-100%	-25 to +60°C, >45°C Derating 0-100%	-25 to +60°C, >45°C Derating 0-100%		
Permissible Altitude(m)	3000m	3000m	4000m	4000m	4000m		
Noise(dB)	€35	≤35	<45	≤55	≤65		
Ingress Protection(IP) Rating	IP 65	IP 65	IP 65	IP 65	IP 65		
Inverter Topology	Non-Isolated	Non-Isolated	Non-Isolated	Non-Isolated	Non-Isolated		
Over Voltage Category	OVC II(DC), OVC III(AC)	OVC II(DC), OVC III(AC)	OVC II(DC), OVC III(AC)	OVC II(DC), OVC III(AC)	OVC II(DC), OVC III(AC)		
Weight(kg)	7.7	14.8	11	53.7	103		
Warranty	5 Years	5 Years	5 Years	5 Years	5 Years		
Type of Cooling	Natural Cooling	Natural Cooling	Natural Cooling	Intelligent Air Coolin -	Intelligent Air Coolin -		
Type of Cooling	Tractarat Cooling	Material Cooling	Intelligent Air Cooling	Intelligent Air Cooling	Intelligent Air Cooling		

	Single Phase Hybrid Inverter Three Phase Hybrid I				Hybrid Inverter	brid Inverter			
(	8	<b>86</b>	(a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c	· · · · · · · · · · · · · · · · · · ·					
Model	<b>\</b>	-			-		market on one		T
	3-6kW	7-10kW	7.6-12kW	12-18kW	3-12kW	14-20kW	29.9-50kW	60-80kW	
Battery Input Data									High Efficiency
Battery Type			Le	ead-acid or Lithium-ic	n		Lithiu	m-ion	4ms UPS-level switch
Battery Voltage Range (V)	20-60	40-60	40-60	40-60	40-60	40-60	160-800	160-1000	Max. efficiency of 97
Max. Charging Current (A)	70-140	175-210	190-250	220-290	70-240	260-350	50+50	80+80	Long-Term Assı
Max. Discharging Current (A)	70-140	175-210	190-250	220-290	70-240	260-350	50+50	80+80	5-year warranty, exte
Charging Strategy for Li-ion Battery Number of Battery Input	1	1	1	Self-adap	tion to BMS	1	2	2	5 year warrancy, exce
PV String Input Data	1	1	1	Z	1	1		<u> </u>	
Max. PV Access Power (W)	6000-12000	14000-20000	15200 24000	24000 22000	6000 24000	20000 40000	E0000 10000	120000-160000	
	4800-9600	11200-16000	15200-24000 12160-19200	24000-32000 19200-25600	6000-24000 4800-19200	28000-40000 22400-32000	59800-100000 47840-80000	96000-128000	
Max. PV Input Power (W) Max. PV Input Voltage (V)	500	500	500	500	800	800	1000	1000	
Start-up Voltage(V)	125	125	125	125	160	160	180	180	
MPPT Voltage Range (V)	150-425	150-425	150-425	150-425	200-650	160-650	150-850	150-850	
Rated PV Input Voltage (V)	370	370	370	370	550	550	600	650	
Max. Operating PV Input Current (A)	18   18+18	26+26	26+26   26+26+26	26+26+26	20+20   26+26	36+36	36+36+36   36+36+36+36	36+36+36+36+36	
Max. Input Short-Circuit Current (A)	27   27+27	34+34	44+44   44+44+44	44+44+44	30+30   39+39	54+54	55+55+55   55+55+55+55	54+54+54+54+54	
No. of MPP Trackers/ No. of Strings MPP Tracker	1/1 2/1+1	2/2+2	2/2+2 3/2+2+2	3/2+2+2	2/1+1 2/2+2	2/2+2	3/2+2+2 4/2+2+2	6/2+2+2+2+2+2	
AC Input/Output Data	2000 5000	7000 10000	7000 10000	10000 10000	2000 12000	14000 00000	20000 50000		
Rated AC Output Active Power(W)  Max. AC Output Apparent Power(VA)  Max. Continuous AC	3000-6000 3300-6600	7000-10000 7700-11000	7600-12000 8360-13200	12000-160000 13200-17600	3000-12000 3300-13200	14000-20000 15400-22000	29900-50000 29900-55000	60000-80000 66000-88000	
Passthrough (grid to load) (A)	35   40	50	50   60	100	45	70	200	200	
Peak Power (off-grid) (W)			2 times of rate				1.5 times of ra	ted power, 10s	
Power Factor Adjustment Range	0.8 leading to 0.8 lagging								
Rated Input/Output Voltage/Range (V) Rated Input/Output Grid Frequency/Range(Hz)		220/230 0	).85Un-1.1Un	50/45-55	, 60/55-65	220/380V, 230/	400V 0.85Un-1.1Un		South Sales
Grid Connection Form		L+	-N+PE			3L	+N+PE		The same
Efficiency									
Max. Efficiency		9	7.6%				97.6%		10
Euro Efficiency			6.5%				97%		
MPPT Efficiency		>	99%			>	>99%		
Interface									V
Communication Interface				RS485/R	S232/CAN				1
Monitor Mode				GPRS/WIFI/Bluetoc	oth/4G/LAN(optional)				_
General Data				, ,	. , (  ,				LoRa
Operating Temperature Range(°C)				-40 to +60°C.	>45°C Derating				SUN-SMART-TX01
Permissible Ambient Humidity					.00%				All Deye hybrid inverters can serve as the
Permissible Altitude(m)	2000m	2000m	2000m	2000m	3000m	3000m	2000m	3000m	local control center for the Deye Smart
Noise(dB)	<30	<30	<45	<50	≤55	<60	≪65	≪65	Home IoT System. Simply install the <b>Deye</b> Smart Transmitter(TX) to the
Ingress Protection(IP) Rating				IF	65				inverter's Meter port to easily pair with
Inverter Topology					solated				Deye LoRa devices.
Over Voltage Category				OVC II(DC)	, OVC III(AC)				
Weight(kg)	17.6   19	26.8	35.6	52	35.2	51.9	80	97.5	
Type of Cooling	Natural Cooling				Intelligent Air Cooling				



**High Performance** Support a peak output of 2 times the rated power for up to 10 seconds

4ms UPS-level switching time

**Long-Term Assurance** 

Max. efficiency of 97.6% for optimal performance

5-year warranty, extendable to 10 years for peace of mind

Smart MPPT Technology 2 MPPTs, supports 1.6x PV oversizing (18A+18A), optimizing energy from panels at various angles

SUN-SMART-CT01

SUN-SMART-PLUG01-F

Deye Smart Plug can be easily

installed in any standard socket,

instantly upgrading the appliance

plugged in to a smart device.

Deve Wireless CT is installed in the

distribution box to monitor power

consumption, Supports both LoRa and RS485 communication methods simultaneously.

SUN-SMART-PLUG01-F

Deye Smart Switch is designed for outdoor high-

power loads, offering the same logic control as Smart

Plugs, supporting both single-phase and three-phase

loads. With the Deye Cloud APP or directly on the inverter's

screen, you can customize the on/off logic for each Smart

Plug based on factors like time and battery SOC levels.

**Generator Integration**Support storing energy from diesel generator

**Durable & Reliable** Independent cooling design reduces dust accumulation and extends lifespan

IP65-rated, built to withstand tough environments

Lora ♠ SUN-EVSE22K01-EU-AC

**Deye Smart EV Charger** can be directly connected to any AC port

of the inverter and is controlled by the

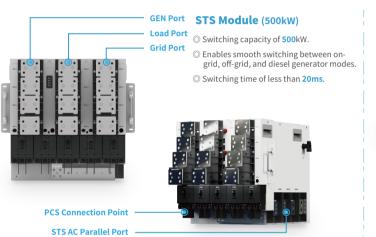
offers flexible options to take advantage

as Plug and Play, Time of Charge, o

Solar Energy Only.

**Parallel Scalability** Supports 16 pcs parallel (off-grid)

**Wireless Energy Manage System** 



100KW-2.5MW

**C&I ESS SOLUTION** 

## MPPT Module (8 MPP Trackers) PCS Module (100kW/125kW)

O System rated power up to 2.5MW.

© Eliminating the need for additional EMS. Integrates zero-export and time-of-use control functions.

Supports instantaneous peak power up to 170% of rated power.

# **Micro Hybrid ESS**

#### **Extreme Weather Adaptability**

· Wide Operating Temperature: -10°C ~ 50°C

**Enhanced Reliability** 

**Intelligent Control** · Local bluetooth communication, supports offline

control via the Deye Cloud APP · Supports Deve smart IoT system; smart plug. smart switch.wireless CT

**High Conversion Efficiency** 

**Quiet Operation** · Fanless design with natural cooling · Grid-tie and off-grid switchover time is less than 4ms

Flexible Operation

· Support On-grid and Off-grid Operation

**High Protection** · IP65: Water & Dust Protection Long Lifespan · 10-year Warranty

· 6000 Cycles to 70% Capacity

**Smart Connection** 

· Bluetooth, Wi-Fi and Mobile APP

**Convenient Charge** · Portable Power with USB-A and Type C

· DC-AC conversion efficiency of up to 96.5% · IP65 Protection Rating · 2000W rated power AC charge/discharge · 10-year standard warranty · Supports up to 4000W for PV access and allows a maximum PV power input of 3200W

**Seamless Scalability** · Easily expand the system with additional battery capacity

**UPS-Grade Backup Power**