

Deye

Clean Power For You

Ningbo Deye Inverter Technology Co., Ltd

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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

Ver: 2.3 2021



Solar Inverter Series Album

Choose Deye — Choose a Green and Healthy Life

Deye
2021

Company Profile



Ningbo Deye Inverter Technology Co., Ltd, founded in 2007 with registered capital 205 million RMB (30 million USD), is one of the China's high-tech enterprises and a subsidiary of Deye Group. With a plant area over 15,000 m² 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, Deye offers solar energy storage system solutions. Among them, PV grid-connected inverter power range from 1.5-100kW, Hybrid inverter 3.6kW-12kW, and microinverter 300W-2000W.



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.



Milestones

42,857,142 USD

In 2019, Deye Inverter technology Co.,Ltd achieved 42.86 million USD sales target. Since 2017, Deye has maintained an annual growth rate of more than 10%.

30,000 pcs +

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.

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...

2007

Founded in 2007 with registered capital of 205 million RMB(30 million USD).

Core Technology

Deye hybrid inverter 3.6/5/8kW with 208/230/240Vac

4	Automatic switching time 4ms
6	6 time periods for battery charging/discharging
16	V/f droop control, Max. 16pcs in parallel
24	Supports using diesel generator to charge battery directly, ensuring system energy supply 7*24H
95.5	Max. conversion efficiency of 97.6%; Max. battery charge efficiency of 95.5%
190	Max. charging/discharging current of 190A

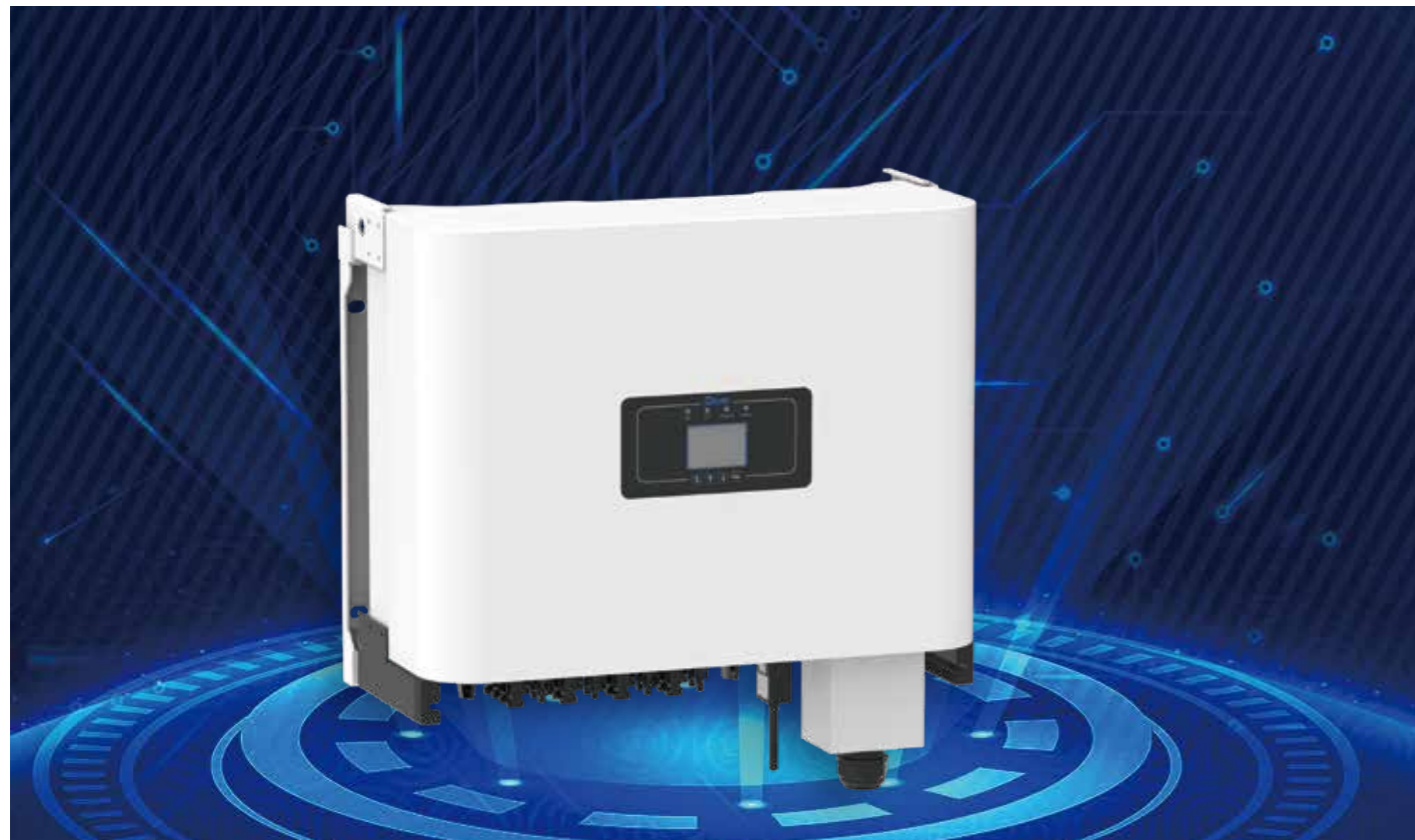


Capable | Intelligent | User-friendly | Safety
Reduce your electricity bill and improve your energy independence
Your ideal residential solar energy storage solution

Core Features

Deye grid-connected inverter 1.5-100kW

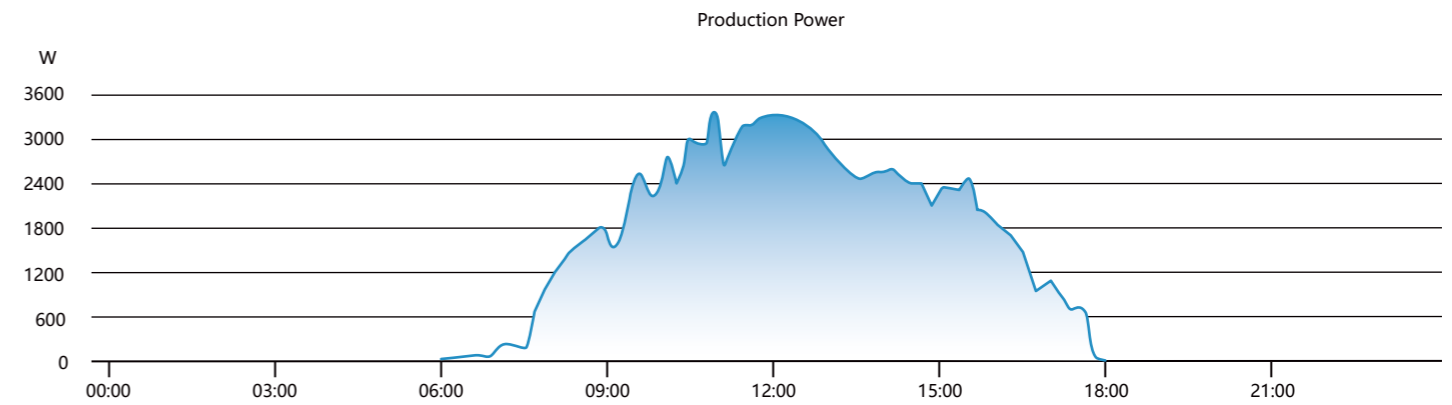
- Max. 4 MPP trackers, Max. efficiency up to 98.9%
- High DC/AC ratio 1.3 times for more yields
- Wide output voltage range 277-460Vac
- Zero export application, response speed within 0.5S
- T-type three-level topology and enhanced SVPWM
- Type II DC / AC SPD, frequency droop control technology
- String intelligent monitoring (optional), Ani-PID function (Optional)



Main Highlights

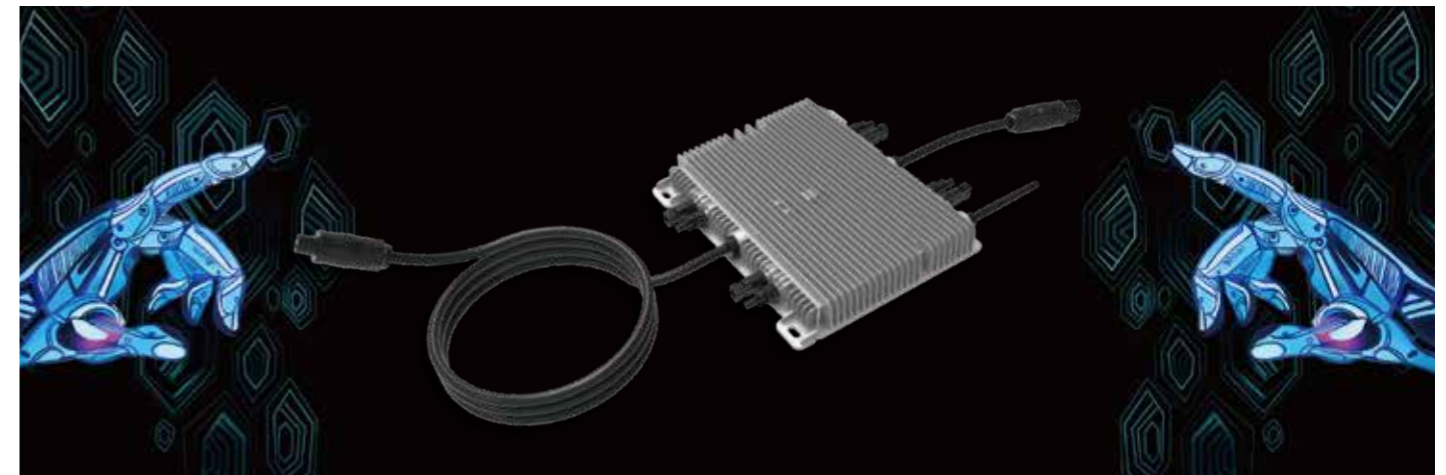
Deye microinverter 300-2000W

- Module level monitoring, Max. 4 MPPTs design
- Max. DC input current 12.5A, adapt to 600W PV module
- Rapid shutdown function, safe and reliable
- PLC, Zigbee or WIFI communication
- IP67 protection degree, 10 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



Complete Manufacturing System



World-Class Components Suppliers

Deye chooses world-class suppliers to ensure the high quality of its products.

MOSFET, IGBT



IC



Capacitor, Inductor



Diode



Relay



FAN



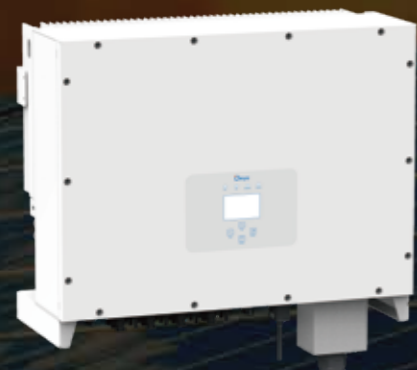
Deye Inverter Portfolio



Single Phase
String Inverter



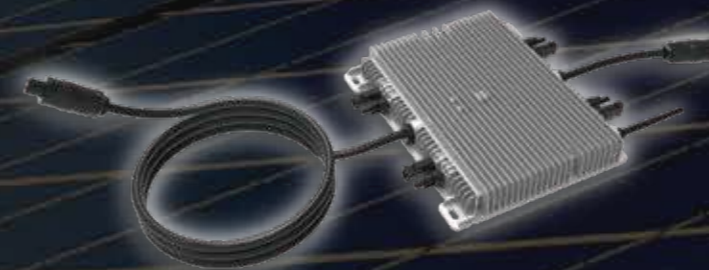
Three Phase
String Inverter



Three Phase
String Inverter (LV)



Hybrid Inverter



Microinverter



Accessory & monitoring

Single Phase String Inverter

SUN- 1.5 / 2 / 3 K-G



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

Model	SUN-1.5K-G	SUN-2K-G	SUN-3K-G
Input Side			
Max. DC Input Power (kW)	2	2.6	3.6
Max. DC Input Voltage (V)	550		
Start-up DC Input Voltage (V)	80		
MPPT Operating Range (V)	70~550		
Max. DC Input Current (A)	12.5		
Number of MPPT / Strings per MPPT	1 / 1		
Output Side			
Rated Output Power (kW)	1.5	2	3
Max. Active Power (kW)	1.7	2.2	3.3
Rated AC Grid Voltage (V)	220 / 230 (Optional)		
AC Grid Voltage Range (V)	160 Vac~300 Vac (this may vary with grid standards)		
Rated Grid Frequency (Hz)	50 / 60 (Optional)		
Operating Phase	Single phase		
Rated AC Grid Output Current (A)	6.5	8.7	13.1
Max. AC Output Current (A)	7.2	9.6	14
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	47~52 or 57~62 (Optional)		
Efficiency			
Max. Efficiency	97.3%	97.3%	97.5%
Euro Efficiency	97.1%	97.1%	97.3%
MPPT Efficiency	>99%		
Protection			
DC Reverse-Polarity Protection	Yes		
AC Short Circuit Protection	Yes		
AC Output Overcurrent Protection	Yes		
Output Overvoltage Protection	Yes		
Insulation Resistance Protection	Yes		
Ground Fault Monitoring	Yes		
Anti-islanding Protection	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Yes		
Remote software upload	Yes		
Remote change of operating parameters	Yes		
Surge protection	DC Type II / AC Type II		
General Data			
Size (mm)	330Wx310Hx115D		
Weight (kg)	6		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<25 dB		
Cooling Concept	Natural cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		

Single Phase String Inverter

SUN- 3.6 / 4 / 5 / 6 K-G



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)



80 Low start-up voltage of 80V

Model	SUN-3.6K-G	SUN-4K-G	SUN-5K-G	SUN-6K-G
Input Side				
Max. DC Input Power (kW)	4.7	5.2	6.5	6.6
Max. DC Input Voltage (V)	550			
Start-up DC Input Voltage (V)	80			
MPPT Operating Range (V)	70~550			
Max. DC Input Current (A)	12.5+12.5			
Number of MPPT / Strings per MPPT	2 / 1			
Output Side				
Rated Output Power (kW)	3.6	4	5	6
Max. Active Power (kW)	4	4.4	5.5	6.6
Rated AC Grid Voltage (V)	220 / 230 (Optional)			
AC Grid Voltage Range (V)	180Vac~300 Vac (this may vary with grid standards)			
Rated Grid Frequency (Hz)	50 / 60 (Optional)			
Operating Phase	Single phase			
Rated AC Grid Output Current (A)	15.7	17.4	21.7	26.1
Max. AC Output Current (A)	17.4	19.1	23.9	28.7
Output Power Factor	0.8 leading to 0.8 lagging			
Grid Current THD	<2%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	47~52 or 57~62 (Optional)			
Efficiency				
Max. Efficiency	97.3%	97.5%	97.5%	97.5%
Euro Efficiency	97.1%	97.3%	97.3%	97.3%
MPPT Efficiency	>99%			
Protection				
DC Reverse-Polarity Protection	Yes			
AC Short Circuit Protection	Yes			
AC Output Overcurrent Protection	Yes			
Output Overvoltage Protection	Yes			
Insulation Resistance Protection	Yes			
Ground Fault Monitoring	Yes			
Anti-islanding Protection	Yes			
Temperature Protection	Yes			
Integrated DC Switch	Yes			
Remote software upload	Yes			
Remote change of operating parameters	Yes			
Surge protection	DC Type II / AC Type II			
General Data				
Size (mm)	330Wx310Hx172D			
Weight (kg)	11			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<25 dB			
Cooling Concept	Natural cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD1602			
Interface	RS485/RS232/Wifi/LAN			

Single Phase String Inverter

SUN- 7.5 / 8 / 10 K-G



2 MPP trackers, Max. efficiency up to 97.7%



Wide output voltage range



Zero export application, VSG application



Anti-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-7.5K-G	SUN-8K-G	SUN-10K-G
Input Side			
Max. DC Input Power (kW)	9.8	10.4	13
Max. DC Input Voltage (V)	550		
Start-up DC Input Voltage (V)	120		
MPPT Operating Range (V)	100~550		
Max. DC Input Current (A)	12.5+25	12.5+25	25+25
Number of MPPT / Strings per MPPT	2 / 1+2	2 / 1+2	2 / 2+2
Output Side			
Rated Output Power (kW)	7.5	8	10
Max. Active Power (kW)	8.3	8.8	11
Rated AC Grid Voltage (V)	220 / 230 (Optional)		
AC Grid Voltage Range (V)	180Vac~300 Vac (this may vary with grid standards)		
Rated Grid Frequency (Hz)	50 / 60 (Optional)		
Operating Phase	Single phase		
Rated AC Grid Output Current (A)	32.6	34.8	43.5
Max. AC Output Current (A)	35.9	38.3	47.8
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	47~52 or 57~62 (Optional)		
Efficiency			
Max. Efficiency	97.7%		
Euro Efficiency	97.5%		
MPPT Efficiency	>99%		
Protection			
DC Reverse-Polarity Protection	Yes		
AC Short Circuit Protection	Yes		
AC Output Overcurrent Protection	Yes		
Output Overvoltage Protection	Yes		
Insulation Resistance Protection	Yes		
Ground Fault Monitoring	Yes		
Anti-islanding Protection	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Yes		
Remote software upload	Yes		
Remote change of operating parameters	Yes		
Surge protection	DC Type II / AC Type II		
General Data			
Size (mm)	330Wx310Hx198.5D		
Weight (kg)	11		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<25 dB		
Cooling Concept	Natural cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	ABNT NBR 16149, ABNT NBR16150, ABNT NBR IEC 62116		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter

SUN- 4 / 5 / 6 / 7 / 8 /10 K-G03



2 MPP trackers, Max. efficiency up to 98.3%



Wide output voltage range



Zero export application, VSG application



Anti-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-4K-G03	SUN-5K-G03	SUN-6K-G03	SUN-7K-G03	SUN-8K-G03	SUN-10K-G03
Input Side						
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13
Max. DC Input Voltage (V)	1000					
Start-up DC Input Voltage (V)	140					
MPPT Operating Range (V)	120~850					
Max. DC Input Current (A)	12.5+12.5					
Number of MPPT / Strings per MPPT	2/1					
Output Side						
Rated Output Power (kW)	4	5	6	7	8	10
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11
Rated AC Grid Voltage (V)	220 / 380, 230 / 400					
AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	5.8	7.2	8.7	10.1	11.6	14.5
Max. AC Output Current (A)	6.4	8	9.6	11.1	12.8	15.9
Output Power Factor	0.8 leading to 0.8 lagging					
Grid Current THD	<2%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range	47~52 or 57~62 (Optional)					
Efficiency						
Max. Efficiency	98.3%					
Euro Efficiency	97.5%					
MPPT Efficiency	>99%					
Protection						
DC Reverse-Polarity Protection	Yes					
AC Short Circuit Protection	Yes					
AC Output Overcurrent Protection	Yes					
Output Overvoltage Protection	Yes					
Insulation Resistance Protection	Yes					
Ground Fault Monitoring	Yes					
Anti-islanding Protection	Yes					
Temperature Protection	Yes					
Integrated DC Switch	Yes					
Remote software upload	Yes					
Remote change of operating parameters	Yes					
Surge protection	DC Type II / AC Type II					
General Data						
Size (mm)	330Wx430Hx177D					
Weight (kg)	15					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65°C					
Ingress Protection	IP65					
Noise Emission (Typical)	<25 dB					
Cooling Concept	Natural cooling					
Max. Operating Altitude Without Derating	2000m					
Designed Lifetime	>20 years					
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD1602					
Interface	RS485/RS232/Wifi/LAN					

Three Phase String Inverter

SUN- 12 / 15 K-G03



2 MPP trackers, Max. efficiency up to 98.5%



Wide output voltage range



Zero export application, VSG application



Anti-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-12K-G03	SUN-15K-G03
Input Side		
Max. DC Input Power (kW)	15.6	19.5
Max. DC Input Voltage (V)		1000
Start-up DC Input Voltage (V)		250
MPPT Operating Range (V)		200~800
Max. DC Input Current (A)		11+22
Number of MPPT / Strings per MPPT		2 / 1+2
Output Side		
Rated Output Power (kW)	12	15
Max. Active Power (kW)	13.2	16.5
Rated AC Grid Voltage (V)		220 / 380, 230 / 400
AC Grid Voltage Range (V)		277Vac~460Vac (this may vary with grid standards)
Rated Grid Frequency (Hz)		50 / 60 (Optional)
Operating Phase		Three phase
Rated AC Grid Output Current (A)	17.4	21.8
Max. AC Output Current (A)	19.1	23.9
Output Power Factor		0.8 leading to 0.8 lagging
Grid Current THD		<2%
DC Injection Current (mA)		<0.5%
Grid Frequency Range		47~52 or 57~62 (Optional)
Efficiency		
Max. Efficiency		98.5%
Euro Efficiency		97.5%
MPPT Efficiency		>99%
Protection		
DC Reverse-Polarity Protection		Yes
AC Short Circuit Protection		Yes
AC Output Overcurrent Protection		Yes
Output Overvoltage Protection		Yes
Insulation Resistance Protection		Yes
Ground Fault Monitoring		Yes
Anti-islanding Protection		Yes
Temperature Protection		Yes
Integrated DC Switch		Yes
Remote software upload		Yes
Remote change of operating parameters		Yes
Surge protection		DC Type II / AC Type II
General Data		
Size (mm)		330Wx430Hx193.5D
Weight (kg)		17
Topology		Transformerless
Internal Consumption		<1W (Night)
Running Temperature		-25~65°C
Ingress Protection		IP65
Noise Emission (Typical)		<45 dB
Cooling Concept		Smart cooling
Max. Operating Altitude Without Derating		2000m
Designed Lifetime		>20 years
Grid Connection Standard		EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2
Operating Surroundings Humidity		0-100%
Safety EMC / Standard		IEC62109-1/-2, EN61000-6-1, EN61000-6-3
Features		
DC Connection		MC-4 mateable
AC Connection		IP65 rated plug
Display		LCD1602
Interface		RS485/RS232/Wifi/LAN

Three Phase String Inverter

SUN- 18 / 20 / 25 K-G02



2 MPP trackers, Max. efficiency up to 98.6%



Wide output voltage range



Zero export application, VSG application



Anti-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-18K-G02	SUN-20K-G02	SUN-25K-G02
Input Side			
Max. DC Input Power (kW)	21.6	26	32.5
Max. DC Input Voltage (V)	1000		
Start-up DC Input Voltage (V)	250		
MPPT Operating Range (V)	200~800		
Max. DC Input Current (A)	22+22	25+25	30+30
Number of MPPT / Strings per MPPT	2 / 2+2	2 / 2	2 / 3
Output Side			
Rated Output Power (kW)	18	20	25
Max. Active Power (kW)	19.8	22	27.5
Rated AC Grid Voltage (V)	220 / 380, 230 / 400		
AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)		
Rated Grid Frequency (Hz)	50 / 60 (Optional)		
Operating Phase	Three phase		
Rated AC Grid Output Current (A)	26.1	29	36.2
Max. AC Output Current (A)	28.7	31.9	39.9
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection Current (mA)	<0.5%		
Grid Frequency Range	47~52 or 57~62 (Optional)		
Efficiency			
Max. Efficiency	98.6%		
Euro Efficiency	97.8%		
MPPT Efficiency	>99%		
Protection			
DC Reverse-Polarity Protection	Yes		
AC Short Circuit Protection	Yes		
AC Output Overcurrent Protection	Yes		
Output Overvoltage Protection	Yes		
Insulation Resistance Protection	Yes		
Ground Fault Monitoring	Yes		
Anti-islanding Protection	Yes		
Temperature Protection	Yes		
Integrated DC Switch	Yes		
Remote software upload	Yes		
Remote change of operating parameters	Yes		
Surge protection	DC Type II / AC Type II		
General Data			
Size (mm)	400Wx520Hx240.5D		
Weight (kg)	28		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<45 dB		
Cooling Concept	Smart cooling		
Max. Operating Altitude Without Derating	2000m		
Designed Lifetime	>20 years		
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD 240 x 160		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter

SUN- 30 / 33 / 35 / 40 / 45 / 50 K-G03



Max. 4 MPPT trackers, Max. efficiency up to 98.7%



Wide output voltage range



Zero export application, VSG application



Anti-PID function (Optional)



String intelligent monitoring (optional)



Type II DC/AC SPD

Model	SUN-30K-G03	SUN-33K-G03	SUN-35K-G03	SUN-40K-G03	SUN-45K-G03	SUN-50K-G03
Input Side						
Max. DC Input Power (kW)	39	42.9	45.5	52	58.5	65
Max. DC Input Voltage (V)	1000					
Start-up DC Input Voltage (V)	250					
MPPT Operating Range (V)	200~850					
Max. DC Input Current (A)	40+40	40+40+40	40+40+40	40+40+40	40+40+40	40+40+40+40
Number of MPPT / Strings per MPPT	2 / 3	3 / 3	3 / 3	3 / 3	3 / 3	4 / 3
Output Side						
Rated Output Power (kW)	30	33	35	40	45	50
Max. Active Power (kW)	33	36.3	38.5	44	49.5	55
Rated AC Grid Voltage (V)	220 / 380, 230 / 400					
AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)					
Rated Grid Frequency (Hz)	50 / 60 (Optional)					
Operating Phase	Three phase					
Rated AC Grid Output Current (A)	43.5	47.8	50.7	58	65.2	72.4
Max. AC Output Current (A)	47.8	52.8	55.8	63.8	71.7	79.7
Output Power Factor	0.8 leading to 0.8 lagging					
Grid Current THD	<2%					
DC Injection Current (mA)	<0.5%					
Grid Frequency Range	47~52 or 57~62 (Optional)					
Efficiency						
Max. Efficiency	98.7%					
Euro Efficiency	98%					
MPPT Efficiency	>99%					
Protection						
DC Reverse-Polarity Protection	Yes					
AC Short Circuit Protection	Yes					
AC Output Overcurrent Protection	Yes					
Output Overvoltage Protection	Yes					
Insulation Resistance Protection	Yes					
Ground Fault Monitoring	Yes					
Anti-islanding Protection	Yes					
Temperature Protection	Yes					
Integrated DC Switch	Yes					
Remote software upload	Yes					
Remote change of operating parameters	Yes					
Surge protection	DC Type II / AC Type II					
General Data						
Size (mm)	647.5Wx537Hx303.5D					
Weight (kg)	44.5					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25~65°C					
Ingress Protection	IP65					
Noise Emission (Typical)	<45 dB					
Cooling Concept	Smart cooling					
Max. Operating Altitude Without Derating	2000m					
Designed Lifetime	>20 years					
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD 240 x 160					
Interface	RS485/RS232/Wifi/LAN					

Three Phase String Inverter

SUN- 60 / 70 / 75 / 80 K-G



4 MPP trackers, Max. efficiency up to 98.7%



Wide output voltage range



Zero export application, VSG application



Anti-PID function (Optional)



String intelligent monitoring (optional)



Type II DC/AC SPD

Model	SUN-60K-G	SUN-70K-G	SUN-75K-G	SUN-80K-G
Input Side				
Max. DC Input Power (kW)	78	91	97.5	104
Max. DC Input Voltage (V)	1000			
Start-up DC Input Voltage (V)	250			
MPPT Operating Range (V)	200~850			
Max. DC Input Current (A)	40+40+40+40			
Number of MPPT / Strings per MPPT	4 / 3	4 / 4	4 / 4	4 / 4
Output Side				
Rated Output Power (kW)	60	70	75	80
Max. Active Power (kW)	66	77	82.5	88
Rated AC Grid Voltage (V)	220 / 380, 230 / 400			
AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)			
Rated Grid Frequency (Hz)	50 / 60 (Optional)			
Operating Phase	Three phase			
Rated AC Grid Output Current (A)	87.8	101.5	108.7	115.9
Max. AC Output Current (A)	95.7	111.6	119.6	127.5
Output Power Factor	0.8 leading to 0.8 lagging			
Grid Current THD	<2%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	47~52 or 57~62 (Optional)			
Efficiency				
Max. Efficiency	98.7%			
Euro Efficiency	98.3%			
MPPT Efficiency	>99%			
Protection				
DC Reverse-Polarity Protection	Yes			
AC Short Circuit Protection	Yes			
AC Output Overcurrent Protection	Yes			
Output Overvoltage Protection	Yes			
Insulation Resistance Protection	Yes			
Ground Fault Monitoring	Yes			
Anti-islanding Protection	Yes			
Temperature Protection	Yes			
Integrated DC Switch	Yes			
Remote software upload	Yes			
Remote change of operating parameters	Yes			
Surge protection	DC Type II / AC Type II			
General Data				
Size (mm)	700Wx575Hx297D			
Weight (kg)	60			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<55 dB			
Cooling Concept	Smart cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD 240 x 160			
Interface	RS485/RS232/Wifi/LAN			

Three Phase String Inverter

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



Max. 6 MPPT trackers, Max. efficiency up to 98.7%

1.5

Max. DC/AC ratio upto 1.5



Zero export application, VSG application



Anti-PID function (Optional)



String intelligent monitoring (optional)



Type II DC/AC SPD

Model	SUN-70K-G03	SUN-75K-G03	SUN-80K-G03	SUN-100K-G03	SUN-110K-G03
Input Side					
Max. DC Input Power (kW)	105	112.5	120	150	150
Max. DC Input Voltage (V)	1000				1100
Start-up DC Input Voltage (V)	250				
MPPT Operating Range (V)	200~850				
Max. DC Input Current (A)	40+40+40+40	40+40+40+40	40+40+40+40	40+40+40+40+40	40+40+40+40+40
Number of MPPT / Strings per MPPT	4 / 4	4 / 4	4 / 4	6 / 4	6 / 4
Output Side					
Rated Output Power (kW)	70	75	80	100	110
Max. Active Power (kW)	77	82.5	88	110	121
Rated AC Grid Voltage (V)	220 / 380, 230 / 400				
AC Grid Voltage Range (V)	277Vac~460Vac (this may vary with grid standards)				
Rated Grid Frequency (Hz)	50 / 60 (Optional)				
Operating Phase	Three phase				
Rated AC Grid Output Current (A)	101.5	108.7	115.9	144.9	159.4
Max. AC Output Current (A)	111.6	119.6	127.5	159.4	175.4
Output Power Factor	>0.99				
Grid Current THD	<2%				
DC Injection Current (mA)	<0.5%				
Grid Frequency Range	47~52 or 57~62 (Optionl)				
Efficiency					
Max. Efficiency	98.7%				
Euro Efficiency	98.3%				
MPPT Efficiency	>99%				
Protection					
DC Reverse-Polarity Protection	Yes				
AC Short Circuit Protection	Yes				
AC Output Overcurrent Protection	Yes				
Output Overvoltage Protection	Yes				
Insulation Resistance Protection	Yes				
Ground Fault Monitoring	Yes				
Anti-islanding Protection	Yes				
Temperature Protection	Yes				
Integrated DC Switch	Yes				
Remote software upload	Yes				
Remote change of operating parameters	Yes				
Surge protection	DC Type II / AC Type II				
General Data					
Size (mm)	838Wx577Hx323D				
Weight (kg)	73.7				
Topology	Transformerless				
Internal Consumption	<1W (Night)				
Running Temperature	-25~65°C				
Ingress Protection	IP65				
Noise Emission (Typical)	<55 dB				
Cooling Concept	Smart cooling				
Max. Operating Altitude Without Derating	2000m				
Designed Lifetime	>20 years				
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2				
Operating Surroundings Humidity	0-100%				
Safety EMC / Standard	IEC62109-1/-2, AS3100, EN61000-6-1				
Features					
DC Connection	MC-4 mateable				
AC Connection	IP65 rated plug				
Display	LCD 240 x 160				
Interface	RS485/RS232/Wifi/LAN				

Three Phase String Inverter (LV)

SUN- 6 / 8 K-G03-LV



LV 127/220Vac and 60Hz, Three phase system

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

0 Zero export application, VSG application

~ Wide output voltage range

PID Anti-PID function (Optional)

📈 String intelligent monitoring (optional)

Model	SUN-6K-G03-LV	SUN-8K-G03-LV
Input Side		
Max. DC Input Power (kW)	7.8	10.4
Max. DC Input Voltage (V)	800	
Start-up DC Input Voltage (V)	250	
MPPT Operating Range (V)	200~700	
Max. DC Input Current (A)	11+22	
Number of MPPT / Strings per MPPT	2 / 1+2	
Output Side		
Rated Output Power (kW)	6	8
Max. Active Power (kW)	6.6	8.8
Rated AC Grid Voltage (V)	127 / 220	
AC Grid Voltage Range (V)	176Vac~242Vac (this may vary with grid standards)	
Rated Grid Frequency (Hz)	60 / 50 (Optional)	
Operating Phase	Three phase	
Rated AC Grid Output Current (A)	15.7	21
Max. AC Output Current (A)	17.3	23.1
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<2%	
DC Injection Current (mA)	<0.5%	
Grid Frequency Range	47~52 or 57~62 (Optional)	
Efficiency		
Max. Efficiency	98.5%	
Euro Efficiency	97.5%	
MPPT Efficiency	>99%	
Protection		
DC Reverse-Polarity Protection	Yes	
AC Short Circuit Protection	Yes	
AC Output Overcurrent Protection	Yes	
Output Overvoltage Protection	Yes	
Insulation Resistance Protection	Yes	
Ground Fault Monitoring	Yes	
Anti-islanding Protection	Yes	
Temperature Protection	Yes	
Integrated DC Switch	Yes	
Remote software upload	Yes	
Remote change of operating parameters	Yes	
Surge protection	DC Type II / AC Type II	
General Data		
Size (mm)	330Wx430Hx193.5D	
Weight (kg)	17	
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<45 dB	
Cooling Concept	Smart cooling	
Max. Operating Altitude Without Derating	2000m	
Designed Lifetime	>20 years	
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2	
Operating Surroundings Humidity	0-100%	
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3	
Features		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD1602	
Interface	RS485/RS232/Wifi/LAN	

Three Phase String Inverter (LV)

SUN- 10 / 12 / 15 K-G03-LV



LV 127/220Vac and 60Hz, Three phase system

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

0 Zero export application, VSG application

Wide Wide output voltage range

Anti-PID Anti-PID function (Optional)

String String intelligent monitoring (optional)

Model	SUN-10K-G03-LV	SUN-12K-G03-LV	SUN-15K-G03-LV
Input Side			
Max. DC Input Power (kW)	13	15.6	19.5
Max. DC Input Voltage (V)		800	
Start-up DC Input Voltage (V)		250	
MPPT Operating Range (V)		200~700	
Max. DC Input Current (A)	25+25	25+25	30+30
Number of MPPT / Strings per MPPT	2 / 2+2	2 / 2	2 / 3
Output Side			
Rated Output Power (kW)	10	12	15
Max. Active Power (kW)	11	13.2	16.5
Rated AC Grid Voltage (V)		127 / 220	
AC Grid Voltage Range (V)		176Vac~242Vac (this may vary with grid standards)	
Rated Grid Frequency (Hz)		60 / 50 (Optional)	
Operating Phase		Three phase	
Rated AC Grid Output Current (A)	26.2	31.5	39.4
Max. AC Output Current (A)	28.9	34.6	43.3
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		<2%	
DC Injection Current (mA)		<0.5%	
Grid Frequency Range		57~62	
Efficiency			
Max. Efficiency		98.6%	
Euro Efficiency		97.8%	
MPPT Efficiency		>99%	
Protection			
DC Reverse-Polarity Protection		Yes	
AC Short Circuit Protection		Yes	
AC Output Overcurrent Protection		Yes	
Output Overvoltage Protection		Yes	
Insulation Resistance Protection		Yes	
Ground Fault Monitoring		Yes	
Anti-islanding Protection		Yes	
Temperature Protection		Yes	
Integrated DC Switch		Yes	
Remote software upload		Yes	
Remote change of operating parameters		Yes	
Surge protection		DC Type II / AC Type II	
General Data			
Size (mm)		400Wx520Hx240.5D	
Weight (kg)		28	
Topology		Transformerless	
Internal Consumption		<1W (Night)	
Running Temperature		-25~65°C	
Ingress Protection		IP65	
Noise Emission (Typical)		<45 dB	
Cooling Concept		Smart cooling	
Max. Operating Altitude Without Derating		2000m	
Designed Lifetime		>20 years	
Grid Connection Standard		EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2	
Operating Surroundings Humidity		0-100%	
Safety EMC / Standard		IEC62109-1/-2, EN61000-6-1, EN61000-6-3	
Features			
DC Connection		MC-4 mateable	
AC Connection		IP65 rated plug	
Display		LCD 240 x 160	
Interface		RS485/RS232/Wifi/LAN	

Three Phase String Inverter (LV)

SUN- 20 / 25 / 30 / 35 K-G02-LV



127/220Vac and 60Hz, Three phase system



Wide output voltage range



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



Anti-PID function (Optional)



Zero export application, VSG application



String intelligent monitoring (optional)

Model	SUN-20K-G02-LV	SUN-25K-G02-LV	SUN-30K-G02-LV	SUN-35K-G02-LV
Input Side				
Max. DC Input Power (kW)	26	32.5	39	45.5
Max. DC Input Voltage (V)	800			
Start-up DC Input Voltage (V)	250			
MPPT Operating Range (V)	200~700			
Max. DC Input Current (A)	40+40	40+40+40	40+40+40+40	40+40+40+40
Number of MPPT / Strings per MPPT	2 / 3	3 / 3	4 / 3	4 / 3
Output Side				
Rated Output Power (kW)	20	25	30	35
Max. Active Power (kW)	22	27.5	33	38.5
Rated AC Grid Voltage (V)	127 / 220			
AC Grid Voltage Range (V)	176Vac~242Vac (this may vary with grid standards)			
Rated Grid Frequency (Hz)	60 / 50 (Optional)			
Operating Phase	Three phase			
Rated AC Grid Output Current (A)	52.5	65.6	78.7	91.9
Max. AC Output Current (A)	57.8	72.2	86.6	101.1
Output Power Factor	0.8 leading to 0.8 lagging			
Grid Current THD	<2%			
DC Injection Current (mA)	<0.5%			
Grid Frequency Range	57~62			
Efficiency				
Max. Efficiency	98.7%			
Euro Efficiency	98%			
MPPT Efficiency	>99%			
Protection				
DC Reverse-Polarity Protection	Yes			
AC Short Circuit Protection	Yes			
AC Output Overcurrent Protection	Yes			
Output Overvoltage Protection	Yes			
Insulation Resistance Protection	Yes			
Ground Fault Monitoring	Yes			
Anti-islanding Protection	Yes			
Temperature Protection	Yes			
Integrated DC Switch	Yes			
Remote software upload	Yes			
Remote change of operating parameters	Yes			
Surge protection	DC Type II / AC Type II			
General Data				
Size (mm)	647.5Wx537Hx303.5D			
Weight (kg)	44.5			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<45 dB			
Cooling Concept	Smart cooling			
Max. Operating Altitude Without Derating	2000m			
Designed Lifetime	>20 years			
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	IEC62109-1/-2, EN61000-6-1, EN61000-6-3			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD 240 x 160			
Interface	RS485/RS232/Wifi/LAN			

Three Phase String Inverter (LV)

SUN- 40 / 45 / 50 K-G-LV



127/220Vac and 60Hz, Three phase system



4 MPP trackers, Max. efficiency up to 98.7%



Zero export application, VSG application



Wide output voltage range



Anti-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-40K-G-LV	SUN-45K-G-LV	SUN-50K-G-LV
Input Side			
Max. DC Input Power (kW)	52	58.5	65
Max. DC Input Voltage (V)		800	
Start-up DC Input Voltage (V)		250	
MPPT Operating Range (V)		200~700	
Max. DC Input Current (A)		40+40+40+40	
Number of MPPT / Strings per MPPT		4 / 4	
Output Side			
Rated Output Power (kW)	40	45	50
Max. Active Power (kW)	44	49.5	55
Rated AC Grid Voltage (V)		127 / 220	
AC Grid Voltage Range (V)		176Vac~242Vac (this may vary with grid standards)	
Rated Grid Frequency (Hz)		60 / 50 (Optional)	
Operating Phase		Three phase	
Rated AC Grid Output Current (A)	104.9	118.1	131.2
Max. AC Output Current (A)	115.5	129.9	144.4
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		<2%	
DC Injection Current (mA)		<0.5%	
Grid Frequency Range		57~62	
Efficiency			
Max. Efficiency		98.7%	
Euro Efficiency		98.3%	
MPPT Efficiency		>99%	
Protection			
DC Reverse-Polarity Protection		Yes	
AC Short Circuit Protection		Yes	
AC Output Overcurrent Protection		Yes	
Output Overvoltage Protection		Yes	
Insulation Resistance Protection		Yes	
Ground Fault Monitoring		Yes	
Anti-islanding Protection		Yes	
Temperature Protection		Yes	
Integrated DC Switch		Yes	
Remote software upload		Yes	
Remote change of operating parameters		Yes	
Surge protection		DC Type II / AC Type II	
General Data			
Size (mm)		700Wx575Hx297D	
Weight (kg)		60	
Topology		Transformerless	
Internal Consumption		<1W (Night)	
Running Temperature		-25~65°C	
Ingress Protection		IP65	
Noise Emission (Typical)		<55 dB	
Cooling Concept		Smart cooling	
Max. Operating Altitude Without Derating		2000m	
Designed Lifetime		>20 years	
Grid Connection Standard		EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2	
Operating Surroundings Humidity		0-100%	
Safety EMC / Standard		IEC62109-1/-2, EN61000-6-1, EN61000-6-3	
Features			
DC Connection		MC-4 mateable	
AC Connection		IP65 rated plug	
Display		LCD 240 x 160	
Interface		RS485/RS232/Wifi/LAN	

Hybrid Inverter

SUN-3.6/5K-SG01/03LP1-EU



Colorful touch LCD,
IP65 protection degree

6

6 time periods for battery
charging/discharging

120

Max. charging/discharging
current of 120A

16

Frequency droop control,
Max.16pcs parallel



DC couple and AC couple to
retrofit existing solar system



Support storing energy from
diesel generator

Model	SUN-3.6K-SG01/03LP1-EU	SUN-5K-SG01/03LP1-EU
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range (V)	40~60V	
Max. Charging Current (A)	90A	120A
Max. Discharging Current (A)	90A	120A
Charging Curve	3 Stages / Equalization	
External Temperature Sensor	Optional	
Charging Strategy for Li-Ion Battery	Self-adaption to BMS	
PV String Input Data		
Max. DC Input Power (W)	4680W	6500W
PV Input Voltage (V)	370V (100V~500V)	
MPPT Range (V)	125~425V	
Full Load DC Voltage Range	240~425V	
Start-up Voltage (V)	150V	
PV Input Current (A)	11A+11A	
No. of MPPT Trackers	2	
No. of Strings Per MPPT Tracker	1+1	
AC Output Data		
Rated AC Output and UPS Power (W)	3600W	5000W
Max. AC Output Power (W)	3960W	5500W
Peak Power (off grid)	2 times of rated power, 10 S	
AC Output Rated Current (A)	15.7A	21.7A
Max. AC Current (A)	18A	25A
Max. Continuous AC Passthrough (A)	35A	
Power Factor	0.8 leading to 0.8 lagging	
Output Frequency and Voltage	50/60Hz; 220/230 / 240Vac (single phase)	
Grid Type	Single Phase	
Current Harmonic Distortion	THD<3% (Linear load<1.5%)	
Efficiency		
Max. Efficiency	97.60%	
Euro Efficiency	96.50%	
MPPT Efficiency	99.90%	
Protection		
PV Input Lightning Protection	Integrated	
Anti-islanding Protection	Integrated	
PV String Input Reverse Polarity Protection	Integrated	
Insulation Resistor Detection	Integrated	
Residual Current Monitoring Unit	Integrated	
Output Over Current Protection	Integrated	
Output Shorted Protection	Integrated	
Output Over Voltage Protection	Integrated	
Surge protection	DC Type II / AC Type II	
Certifications and Standards		
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699: 2011, XP C15-712-3, CEI 0-21	
Safety Regulation	IEC62109-1, IEC62109-2	
EMC	EN61000-6-1, EN61000-6-3	
General Data		
Operating Temperature Range (°C)	-25~60°C, >45°C Derating	
Cooling	Smart cooling	
Noise (dB)	<30 dB	
Communication with BMS	RS485; CAN	
Weight (kg)	20.5	
Size (mm)	330Wx580Hx232D	
Protection Degree	IP65	
Installation Style	Wall-mounted	
Warranty	5 years	

Hybrid Inverter

SUN-5/6K-SG01LP1-US SUN-7.6/8K-SG01LP1-US/EU



Colorful touch LCD,
IP65 protection degree

6

6 time periods for battery
charging/discharging

190

Max. charging/discharging
current of 190A

16

Frequency droop control,
Max.16pcs parallel



DC couple and AC couple to
retrofit existing solar system



Support storing energy from
diesel generator

Model	SUN-5K-SG01LP1-US	SUN-6K-SG01LP1-US	SUN-7.6K-SG01LP1-US/EU	SUN-8K-SG01LP1-US/EU
Battery Input Data				
Battery Type	Lead-acid or Lithium-ion			
Battery Voltage Range (V)	40~60V			
Max. Charging Current (A)	120A	135A	190A	190A
Max. Discharging Current (A)	120A	135A	190A	190A
Charging Curve	3 Stages / Equalization			
External Temperature Sensor	Optional			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	6500W	7800W	9880W	10400W
PV Input Voltage (V)	370V (100V~500V)			
MPPT Range (V)	125V-425V			
Start-up Voltage (V)	150V			
PV Input Current (A)	11A+11A	22A+11A	22A+22A	22A+22A
No.of MPPT Trackers	2			
No.of Strings Per MPPT Tracker	1+1	2+1	2+2	2+2
AC Output Data				
Rated AC Output and UPS Power (W)	5000W	6000W	7600W	8000W
Max. AC Output Power (W)	5500W	6600W	8360W	8800W
Peak Power (off grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	20.8A	25A	31.7A / 33A	33.4A / 35A
Max. AC Current (A)	22.9A	27.5A	34.9A / 36.3A	36.7A / 38.5A
Max. Continuous AC Passthrough (A)	35A	40A	50A	50A
Output Frequency and Voltage	50 / 60Hz; 120 / 240Vac (split phase), 208Vac (2 / 3 phase), 230Vac (single phase)			
Grid Type	Split phase; 2 / 3 phase; Single Phase			
Current Harmonic Distortion	THD<3% (Linear load<1.5%)			
Efficiency				
Max. Efficiency	97.60%			
Euro Efficiency	97.00%			
MPPT Efficiency	99.90%			
Protection				
PV Input Lightning Protection	Integrated			
Anti-islanding Protection	Integrated			
PV String Input Reverse Polarity Protection	Integrated			
Insulation Resistor Detection	Integrated			
Residual Current Monitoring Unit	Integrated			
Output Over Current Protection	Integrated			
Output Shorted Protection	Integrated			
Output Over Voltage Protection	Integrated			
Surge protection	DC Type II / AC Type II			
Certifications and Standards				
Grid Regulation	UL1741, IEEE1547, RULE21, VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727			
Safety Regulation	IEC62109-1, IEC62109-2			
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B			
General Data				
Operating Temperature Range (°C)	-25~60°C, >45°C Derating			
Cooling	Smart cooling			
Noise (dB)	<30 dB			
Communication with BMS	RS485; CAN			
Weight (kg)	32			
Size (mm)	420W×670H×233D			
Protection Degree	IP65			
Installation Style	Wall-mounted			
Warranty	5 years			

Three Phase Hybrid Inverter

SUN- 8 / 10 / 12 K-SG04LP3




48 48V low voltage battery, transformer isolation design


6 6 time periods for battery charging/discharging

240 Max. charging/discharging current of 240A

100% 100% unbalanced output, each phase
Max. output up to **50%** rated power

16 Frequency droop control, Max.16pcs parallel

 DC couple and AC couple to retrofit existing solar system


 Support storing energy from diesel generator


Model	SUN-8K-SG04LP3	SUN-10K-SG04LP3	SUN-12K-SG04LP3
Battery Input Data			
Battery Type	Lead-acid or Li-Ion		
Battery Voltage Range (V)	40~60V		
Max. Charging Current (A)	190A	210A	240A
Max. Discharging Current (A)	190A	210A	240A
Charging Curve	3 Stages / Equalization		
External Temperature Sensor	Optional		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. DC Input Power (W)	10400W	13000W	15600W
PV Input Voltage (V)	550V (150V~800V)		
MPPT Range (V)	200V-650V		
Start-up Voltage (V)	160V		
PV Input Current (A)	12.5A+12.5A	25A+12.5A	25A+12.5A
No.of MPPT Trackers	2		
No.of Strings Per MPPT Tracker	1+1	2+1	2+1
AC Output Data			
Rated AC Output and UPS Power (W)	8000W	10000W	12000W
Max. AC Output Power (W)	8800W	11000W	13200W
Peak Power (off grid)	2 times of rated power, 10 S		
AC Output Rated Current (A)	12A	15A	18A
Max. AC Current (A)	18A	23A	27A
Max. Continuous AC Passthrough (A)	50A		
Output Frequency and Voltage	50/60Hz; 230/400Vac (Three phase)		
Grid Type	Three Phase		
Current Harmonic Distortion	THD<3% (Linear load<1.5%)		
Efficiency			
Max. Efficiency	97.60%		
Euro Efficiency	97.00%		
MPPT Efficiency	99.90%		
Protection			
PV Input Lightning Protection	Integrated		
Anti-islanding Protection	Integrated		
PV String Input Reverse Polarity Protection	Integrated		
Insulation Resistor Detection	Integrated		
Residual Current Monitoring Unit	Integrated		
Output Over Current Protection	Integrated		
Output Shorted Protection	Integrated		
Output Over Voltage Protection	Integrated		
Surge protection	DC Type II / AC Type II		
Certifications and Standards			
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727		
Safety Regulation	IEC62109-1, IEC62109-2		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 class B		
General Data			
Operating Temperature Range (°C)	-25~60°C, >45°C Derating		
Cooling	Smart cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	36.8		
Size (mm)	422Wx658Hx281D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		


Microinverter


SUN500G-230-EU SUN600G2-US-208/240
 SUN600G2-US-220 SUN600G2-US-127



 Rapid shutdown function

 PLC, Zigbee or WIFI communication

 IP67 protection degree,
10 years warranty

 2 MPP trackers, module level monitoring

Microinverter

Model	SUN500G-230-EU	SUN600G2-US-208/240	SUN600G2-US-220	SUN600G2-US-127
Input Data (DC)				
Recommended input Power (STC)	210~400W (2 Pieces)	210~400W (2 Pieces)	210~400W (2 Pieces)	210~350W (2 Pieces)
Maximum input DC Voltage	60V			
MPPT Voltage Range	25~55V			
Operating DC Voltage Range	20~60V			
Max. DC Short Circuit Current	13A			
Max. input Current	10.4A×2			
Output Data (AC)				
Rated output Power	600W	600W	600W	500W
Maximum output Power	600W	600W	600W	500W
Maximum output Current	2.2A	2.9A / 2.5A	2.7A	4A
Nominal Voltage / Range	184~265V	208V / 183~229V 240V / 211~264V	176~242V	a.c.95~155V @127Vac
Nominal Frequency / Range	50.0 / 47.5~51.5Hz	60.0 / 59.3~60.5Hz	60.0 / 59.3~60.5Hz	60.0 / 59.3~60.5Hz
Extended Frequency / Range	50.0 / 45~55Hz	60.0 / 55~65Hz	60.0 / 55~65Hz	60.0 / 55~65Hz
Power Factor	>0.99			
Maximum units per branch	11	8 / 10	9	6
Efficiency				
CEC Weighted Efficiency	95%			
Peak Inverter Efficiency	96.5%			
Static MPPT Efficiency	99%			
Night Time Power Consumption	50mW			
Mechanical Data				
Ambient Temperature Range	-40~65°C			
Size (mm)	185W×161H×29D (Without mounting bracket and cable)			
Weight (kg)	2.4			
Cooling	Natural cooling			
Enclosure Environmental Rating	IP67			
Features				
Compatibility	Compatible with 60~72 cell PV modules			
Communication	Power line / WIFI / Zigbee			
Compliance	UL1741、VDE0126、VDE4105、IEC62109、CE、INMETRO			
Warranty	10 years			

Microinverter

SUN1300G2-US-208/240

SUN1200G-230-EU SUN1300G



Rapid shutdown function



PLC, Zigbee or WIFI communication



IP67 protection degree,
10 years warranty



4 MPP trackers, module level monitoring

Microinverter

Model	SUN1200G-230-EU	SUN1300G2-US-208/240	SUN1300G
Input Data (DC)			
Recommended input Power (STC)	210~400W (4 Pieces)		
Maximum input DC Voltage	60V		
MPPT Voltage Range	25~55V		
Operating DC Voltage Range	20~60V		
Max. DC Short Circuit Current	13A	13A	14A
Max. input Current	10.4A×4		
Output Data (AC)			
Rated output Power	1300W		
Maximum output Power	1300W		
Maximum output Current	4.3A	6.3A / 5.4A	5.9A
Nominal Voltage / Range	184~265V	208V / 183~229V 240V / 211~264V	176~242V
Nominal Frequency / Range	50.0 / 47.5~51.5Hz	60.0 / 59.3~60.5Hz	60.0 / 59.3~60.5Hz
Extended Frequency / Range	50.0 / 45~55Hz	60.0 / 55~65Hz	60.0 / 55~65Hz
Power Factor	>0.99		
Maximum units per branch	5	4	4
Efficiency			
CEC Weighted Efficiency	95%		
Peak Inverter Efficiency	96.5%		
Static MPPT Efficiency	99%		
Night Time Power Consumption	50mW		
Mechanical Data			
Ambient Temperature Range	-40~65°C		
Size (mm)	298.5W×287H×36D (Without mounting bracket and cable)		
Weight (kg)	6.3		
Cooling	Natural cooling		
Enclosure Environmental Rating	IP67		
Features			
Compatibility	Compatible with 60~72 cell PV modules		
Communication	Power line / WIFI / Zigbee		
Compliance	UL1741、VDE0126、VDE4105、IEC62109、CE、INMETRO		
Warranty	10 years		


Microinverter


SUN300G3-EU-230


SUN500G3-EU-230



 Rapid shutdown function

 PLC, Zigbee or WIFI communication

 IP67 protection degree, 10 years warranty

 1 MPP tracker, module level monitoring

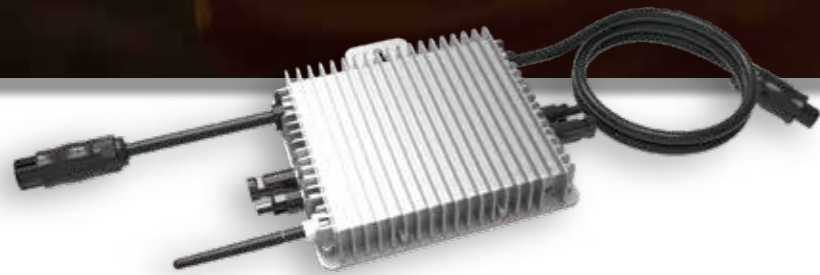
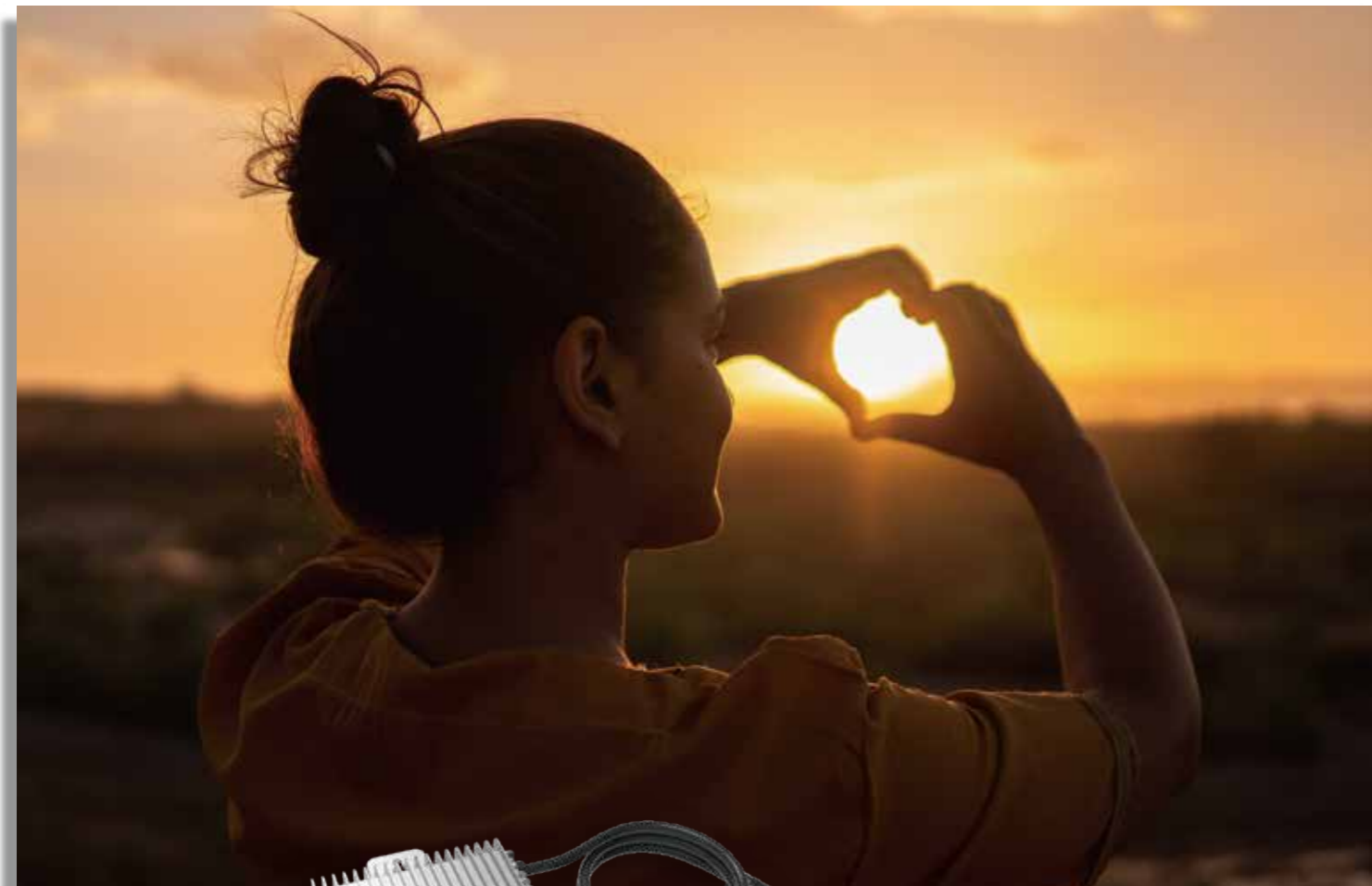
Microinverter

Model	SUN300G3-EU-230	SUN500G3-EU-230
Input Data (DC)		
Recommended input Power (STC)	210~400W (1 Piece)	210~600W (1 Piece)
Maximum input DC Voltage	60V	
MPPT Voltage Range	25~55V	
Operating DC Voltage Range	20~60V	
Max. DC Short Circuit Current	16A	
Max. input Current	10.5A×1	12.5A×1
Output Data (AC)		
Rated output Power	300W	500W
Maximum output Power	330W	550W
Maximum output Current	1.4A	2.4A
Nominal Voltage / Range	230V / 184-265V	
Nominal Frequency / Range	50 / 60Hz	
Extended Frequency / Range	45~55Hz / 55~65Hz	
Power Factor	>0.99	
Maximum units per branch	17	10
Efficiency		
CEC Weighted Efficiency	95%	
Peak Inverter Efficiency	96.5%	
Static MPPT Efficiency	99%	
Night Time Power Consumption	50mW	
Mechanical Data		
Ambient Temperature Range	-40~65°C	
Size (mm)	212Wx229Hx40D (Without mounting bracket and cable)	
Weight (kg)	3.5	
Cooling	Natural cooling	
Enclosure Environmental Rating	IP67	
Features		
Compatibility	Compatible with 60~72 cell PV modules	
Communication	Power line / WIFI / Zigbee	
Compliance	EN50549、VDE0126、VDE4105、IEC62109、CE、INMETRO	
Warranty	10 years	


Microinverter


SUN600G3-EU-230


SUN800G3-EU-230 SUN1000G3-EU-230



 Rapid shutdown function

 PLC, Zigbee or WIFI communication

 IP67 protection degree, 10 years warranty

 2 MPP trackers, module level monitoring

Microinverter

Model	SUN600G3-EU-230	SUN800G3-EU-230	SUN1000G3-EU-230
Input Data (DC)			
Recommended input Power (STC)	210~400W (2 Piece)	210~600W (2 Piece)	210~600W (2 Pieces)
Maximum input DC Voltage	60V		
MPPT Voltage Range	25~55V		
Operating DC Voltage Range	20~60V		
Max. DC Short Circuit Current	16A		
Max. input Current	10.5Ax2	12.5Ax2	12.5Ax2
Output Data (AC)			
Rated output Power	600W	800W	1000W
Maximum output Power	660W	880W	1100W
Maximum output Current	2.9A	3.8A	4.8A
Nominal Voltage / Range	230V / 184-265V		
Nominal Frequency / Range	50 / 60Hz		
Extended Frequency / Range	45~55Hz / 55~65Hz		
Power Factor	>0.99		
Maximum units per branch	8	6	5
Efficiency			
CEC Weighted Efficiency	95%		
Peak Inverter Efficiency	96.5%		
Static MPPT Efficiency	99%		
Night Time Power Consumption	50mW		
Mechanical Data			
Ambient Temperature Range	-40~65°C		
Size (mm)	212Wx229Hx40D (Without mounting bracket and cable)		
Weight (kg)	3.5		
Cooling	Natural cooling		
Enclosure Environmental Rating	IP67		
Features			
Compatibility	Compatible with 60~72 cell PV modules		
Communication	Power line / WIFI / Zigbee		
Compliance	EN50549、VDE0126、VDE4105、IEC62109、CE、INMETRO		
Warranty	10 years		


Microinverter


SUN1300G3-EU-230 SUN1600G3-EU-230
SUN1800G3-EU-230 SUN2000G3-EU-230




Microinverter

Model	SUN1300G3-EU-230	SUN1600G3-EU-230	SUN1800G3-EU-230	SUN2000G3-EU-230
Input Data (DC)				
Recommended input Power (STC)	210~400W (4 Pieces)	210~600W (4 Pieces)	210~600W (4 Pieces)	210~600W (4 Pieces)
Maximum input DC Voltage	60V			
MPPT Voltage Range	25~55V			
Operating DC Voltage Range	20~60V			
Max. DC Short Circuit Current	16A			
Max. input Current	10.5A×4	12.5A×4	12.5A×4	12.5A×4
Output Data (AC)				
Rated output Power	1300W	1600W	1800W	2000W
Maximum output Power	1430W	1760W	1980W	2200W
Maximum output Current	6.2A	7.7A	8.6A	9.6A
Nominal Voltage / Range	230V / 184-265V			
Nominal Frequency / Range	50 / 60Hz			
Extended Frequency / Range	45~55Hz / 55~65Hz			
Power Factor	>0.99			
Maximum units per branch	4	4	3	3
Efficiency				
CEC Weighted Efficiency	95%			
Peak Inverter Efficiency	96.5%			
Static MPPT Efficiency	99%			
Night Time Power Consumption	50mW			
Mechanical Data				
Ambient Temperature Range	-40~65°C			
Size (mm)	267W×300H×42.5D (Without mounting bracket and cable)			
Weight (kg)	5.2			
Cooling	Natural cooling			
Enclosure Environmental Rating	IP67			
Features				
Compatibility	Compatible with 60~72 cell PV modules			
Communication	Power line / WIFI / Zigbee			
Compliance	EN50549、VDE0126、VDE4105、IEC62109、CE、INMETRO			
Warranty	10 years			

 Rapid shutdown function

 PLC, Zigbee or WIFI communication

 IP67 protection degree, 10 years warranty

 4 MPP trackers, module level monitoring

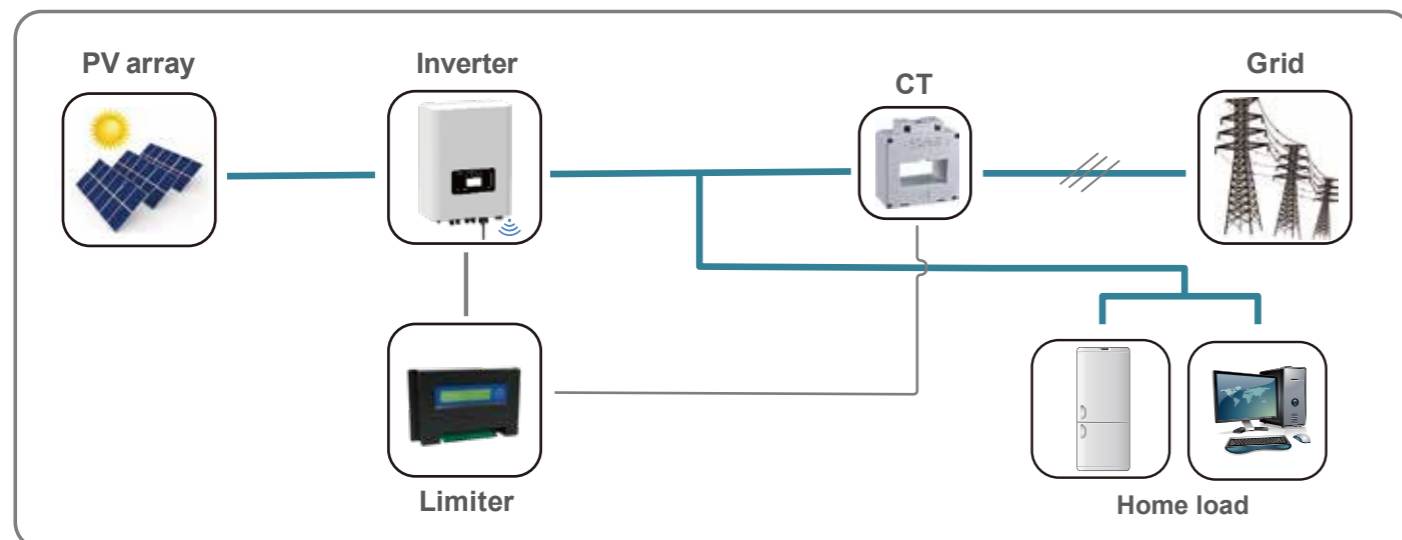
 Max. DC input current of 12.5A, adapt to 600W PV module

SUN-limiter



- ▾ Split-core type current transformer, easy installation
- ▾ Response time within 0.5S

Zero-export Application Diagram



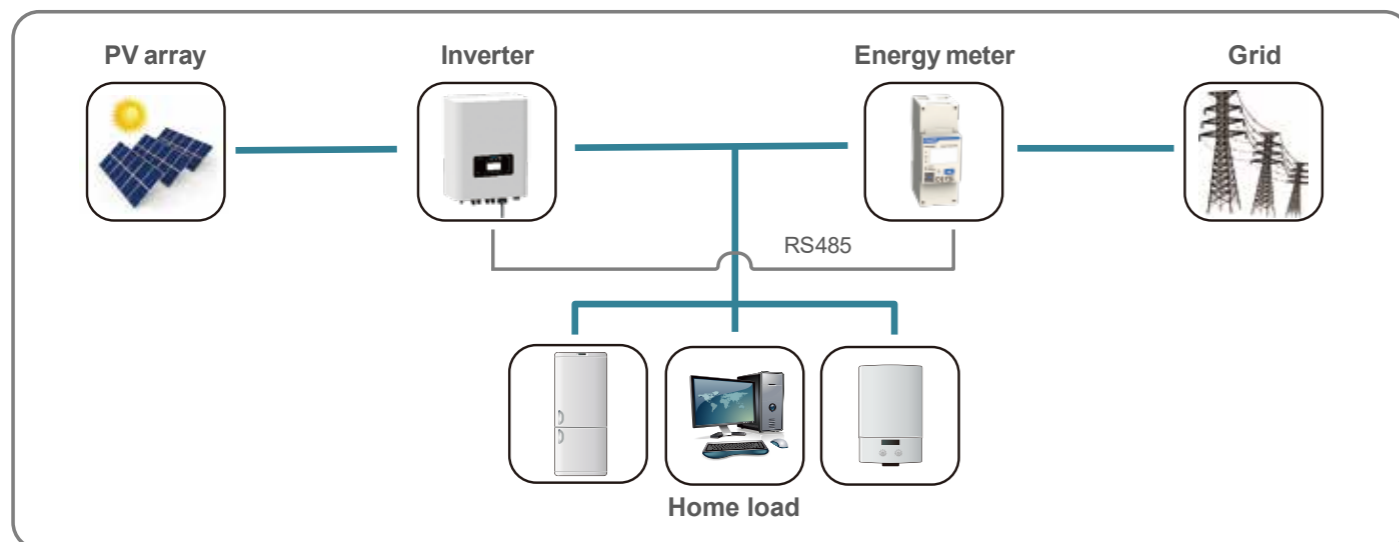
Model	SUN-limiter
Measurement	
Max. current measurement	200A
Current accuracy	0.5%
Voltage measurement between phases	277~460V
Voltage measurement between phase and neutral	160~265V
Voltage accuracy	0.5%
Active power accuracy	0.5%
Power Supply	
AC power supply input voltage	100-265V
AC power supply input frequency	50/60Hz
Generation Specifications	
Dimensions (L/H/W) in mm	160.7×28.4×95.8
Weight (kg)	0.2899
Mounting options	Wall-mounted
Degree of protection	IP20
Display	LCD
Communication interface	RS485
Max. number of devices to connect	4
Ambient temperature range	-25~60°C
Humidity	≤95%
Applicable inverter type	Three-phase grid-tie inverter
Warranty	2 years

Energy Meter



Model	DDSU666	DTSU666
Max. direct current measurement (A)	60	80
Direct Voltage measurement between phases	/	176-458V
Direct measurement between phase and neutral	176~264V	100-265V
Accuracy Class		
Active power		Class1
Reactive power		Class2
Power Supply		
Power consumption	≤1W / 8VA	≤1.5W / 6VA
AC power supply input voltage	176-264V	100-265V
AC power supply input frequency		50/60Hz
Generation Specifications		
Dimensions (L/H/W) in mm	36x85x66	100x72x66
Weight (kg)	0.21	0.44
Mounting options		DIN Rail
Degree of protection		IP51
Display		LCD
Communication interface		RS485
Max. number of devices to connect		4
Regulated working temperature range	-25°C~+55°C	-10°C~+45°C
Limited working temperature range	-40°C~+70°C	-25°C~+75°C
Humidity		≤75%
Warranty		1.5 years

Zero-export Application Diagram



MECD



- ◆ Built-in Zigbee, PLC and WIFI modular.
- ◆ Suitable for single-phase and three-phase applications.
- ◆ Enables remotely monitoring and management.



- ◆ OLED display and buttons, easy operation.
- ◆ Compact design and light in weight.

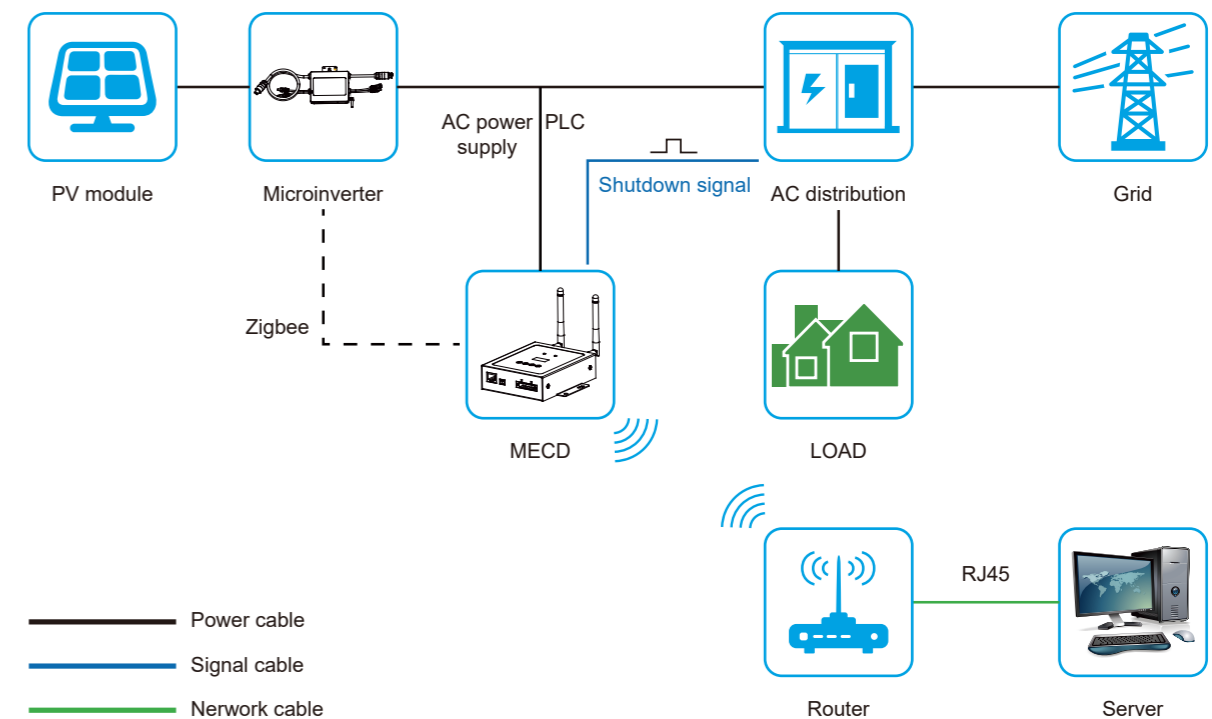


- ◆ Support quick shutdown remotely.
- ◆ Robust design, 3 years warranty.

The MECD communications gateway collects and delivers modular performance data in real time, for comprehensive monitor and manage of your solar system, optimizing the performance of your solar system. With built-in quick shutdown application, the MECD is able to control the microinverter connected shutdown immediately when the dry contact is activated.

Model	MECD
Communication interface	
Communication method	Zigbee, PLC
Max. number of inverters connected	5、10、20、32 (Max.)
Communication to router	WIFI
WIFI wireless security	WEP, WPA2-PSK
RS485	Reserved
Max. distance (free space)	PLC 300m; Zigbee 100m (Max. straight-line distance)
Power Supply	
AC power supply	100 to 240V AC, 50/60Hz
Power consumption	5W typical, 10W Maximum
Mechanical Data	
Dimensions (L/H/W) in mm	133.6×132×35.5 mm
Weight (kg)	0.3
Operation temperature range	-20~+50°C
Mounting method	Wall-mounted
Display	OLED and LED indicators
Features	
Grid type	Single phase / three phase
Digital Input	Control device connection
Other	
Compliance	IEC60950, IEC61000-6-2, FCC Part15 Class B / Class C
Warranty	3 years

Typical Application



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.

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.

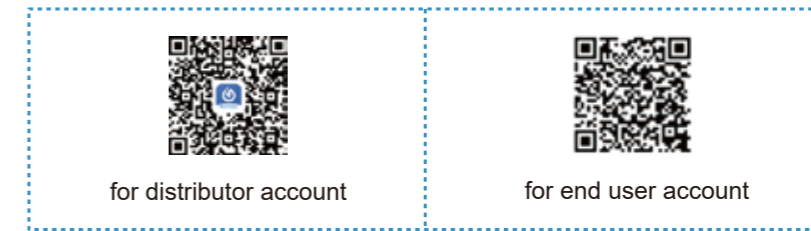
ProductModel	LSG-3	LSG-4	LSW-3	LS4G-3	LSE-3
Remote Communication Interface	GPRS	GPRS	WiFi	4G	LAN
Working Frequency	GSM850 / EGSM900 / DCS1800 / PCS 1900MHz	GSM850 / EGSM900 / DCS1800 / PCS 1900MHz	2.142GHz~2.484GHz	704MHZ-960MHZ 1710MHZ-2690MHZ	Adaptive Network; 10M / 100M
Satellite Positioning	/	GPS / 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	Bluetooth	APP / Web	AT+InstructionSet Remote Server	Local Serial Port	Web
Firmware Upgrade	Remote Upgrade				
Others	Real-time Control, Data resuming				

Smart PV Management Platform



Deye residential monitoring solution takes great care to ensure that your PV system is in excellent operation throughout its entire life-cycle. This monitoring solution offer you details information of your power generating plant including Today energy, Monthly energy, yearly energy, total energy etc, through wireless communication with your router to the internet by a smart wifi plug. User can easily access to the monitoring page via PC web or phone APP.

Maximum your energy output while minimizing your costs. Scan the QR code to build your power station !

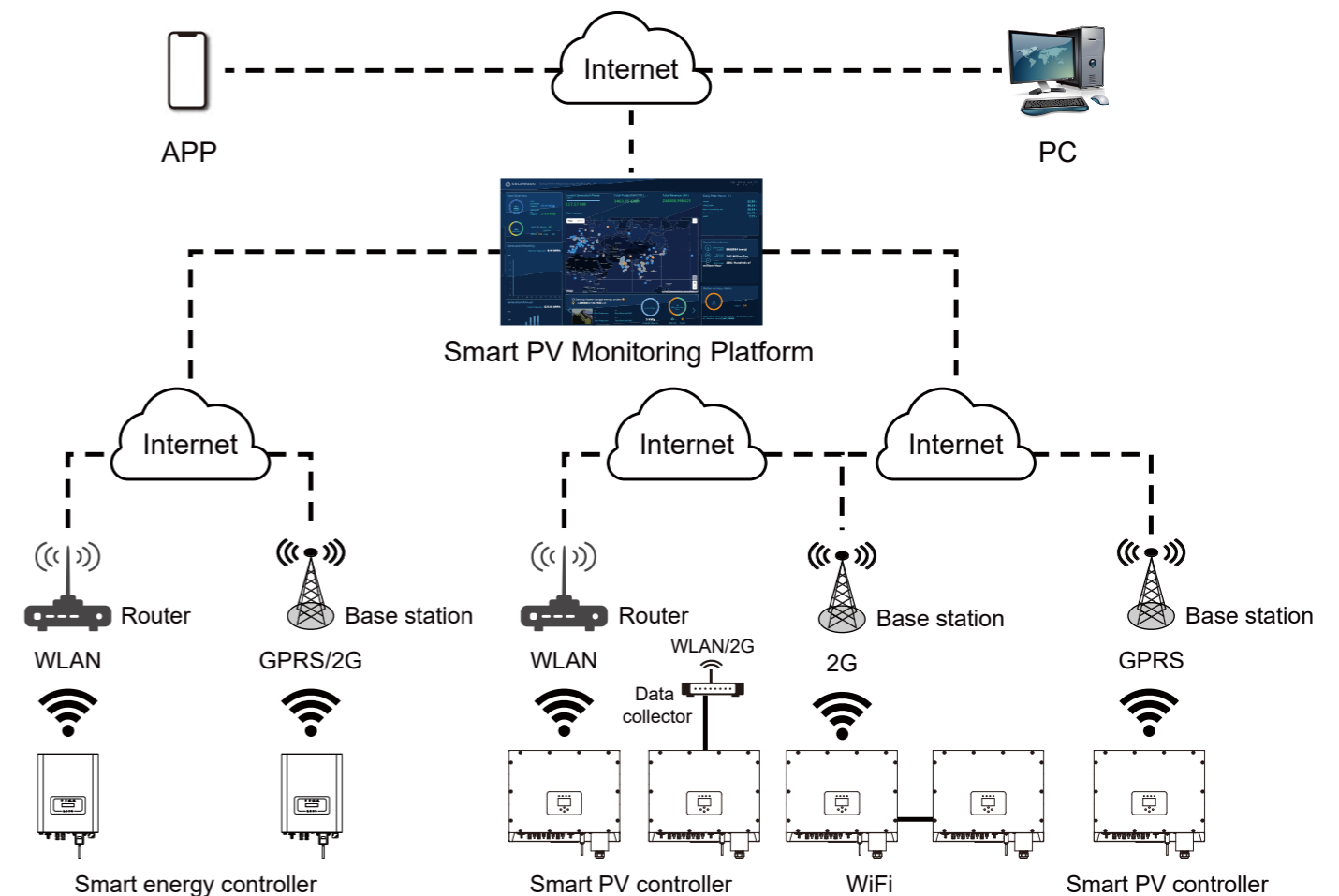


Efficiency

- Open station supports one-click installation and registration;
- Problem support one-click dispatch and navigation.

Safe

- Safe operation, traceable logs, etc;
- Support full lifecycle data storage to ensure data security and reliability.



Project cases



- ▶ 5KW
- ▶ Brazil
- ▶ SUN-5K-G



- ▶ 20KW
- ▶ Brazil
- ▶ SUN-10K-G



- ▶ 50KW
- ▶ Brazil
- ▶ SUN-25K-G



- ▶ 200KW
- ▶ Brazil
- ▶ SUN-50K-G



- ▶ 200KW
- ▶ Vietnam
- ▶ SUN-50K-G

Project cases



- ▶ 320KW
- ▶ Brazil
- ▶ SUN-80K-G



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



- ▶ 30KW
- ▶ China
- ▶ SUN 1200G

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



- ▶ 91KW
- ▶ USA
- ▶ SUN 1300G2