

KIORI
energy



*World-leading Residential Energy
Storage System Provider*

**INVERSORES DE RED
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Stock Code: 605117.SH

Choose Deye — Choose a Green and Healthy Life

Deye
2021

Company Profile



Ningbo Deye Inverter Technology Co., Ltd, founded in 2007 with registered capital 30 million USD, is one of the China's high-tech enterprises and a subsidiary of Deye Group. With a plant area over 15,000m² 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 1.5-110kW, Hybrid inverter 3kW-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. 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

2021

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

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 30 million USD.

Core Technology

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

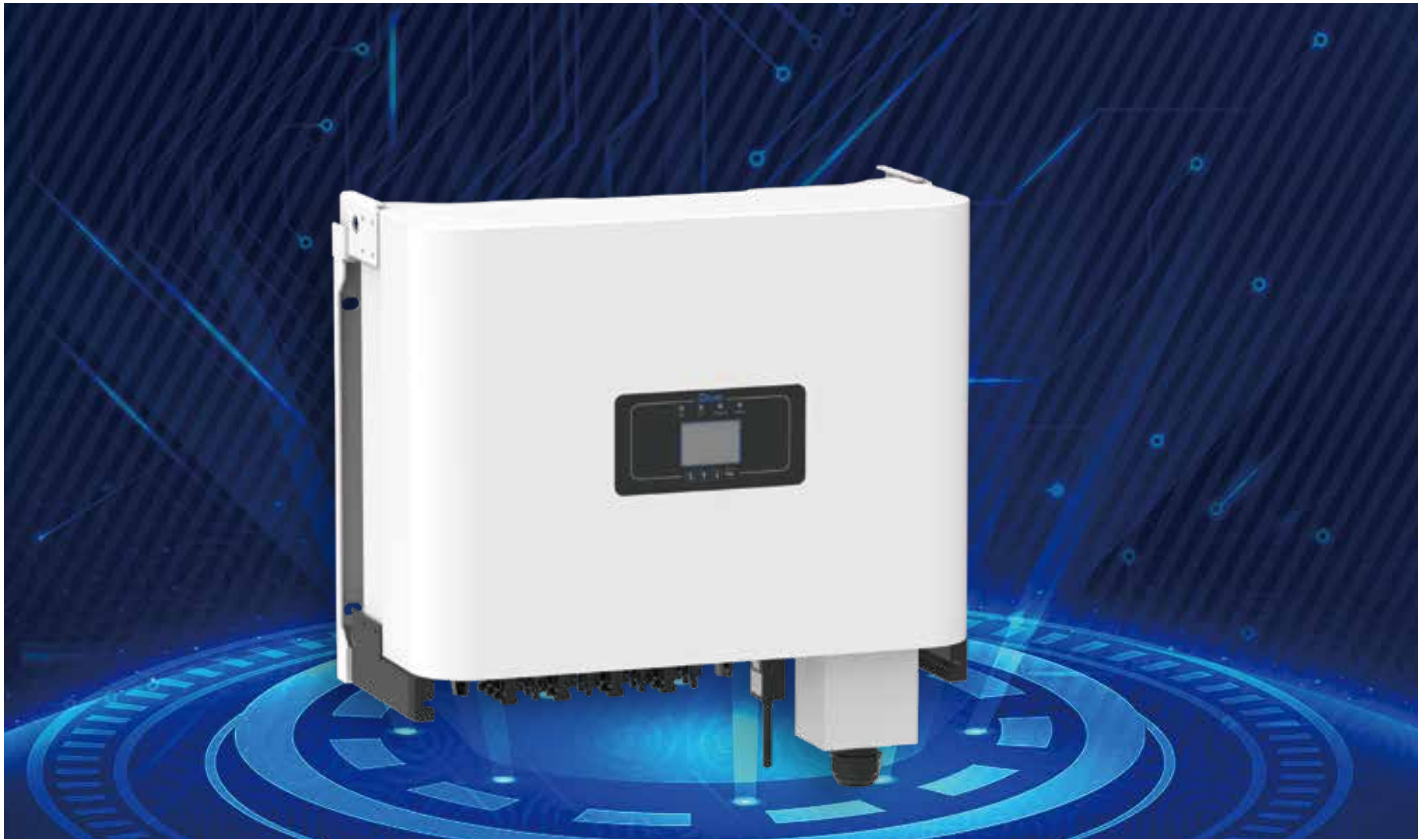
4	Automatic switching time 4ms
6	6 time periods for battery charging/discharging
16	V/f droop control, Max. 16pcs in parallel
24	Supports using diesel generator to charge battery directly, ensuring system energy supply 7*24H
95.5	Max. conversion efficiency of 97.6%; Max. battery charge efficiency of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



Core Features

Deye grid-connected inverter 1.5-110kW

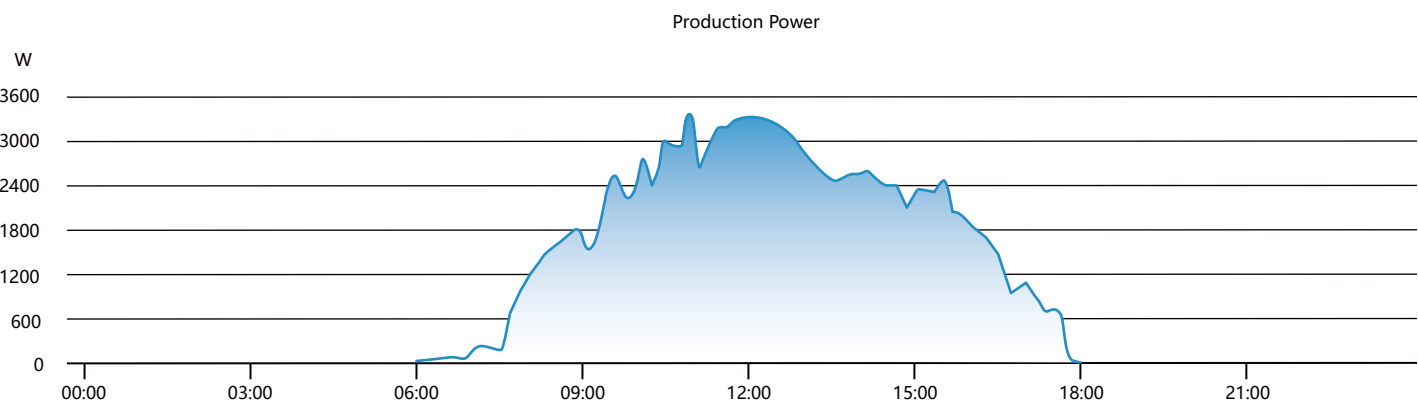
- Max. DC input current of 16A/string, adapt to 600W solar panel
- Max. 8 MPP trackers, Max. efficiency up to 98.9%
- High DC/AC ratio 1.5 times for more yields
- Wide output voltage range 277-460Vac
- Zero export application, response speed within 0.5S
- T-type three-level topology and enhanced SVPWM
- Type II DC / AC SPD, frequency droop control technology
- String intelligent monitoring (optional), Ani-PID function (Optional)



Main Highlights

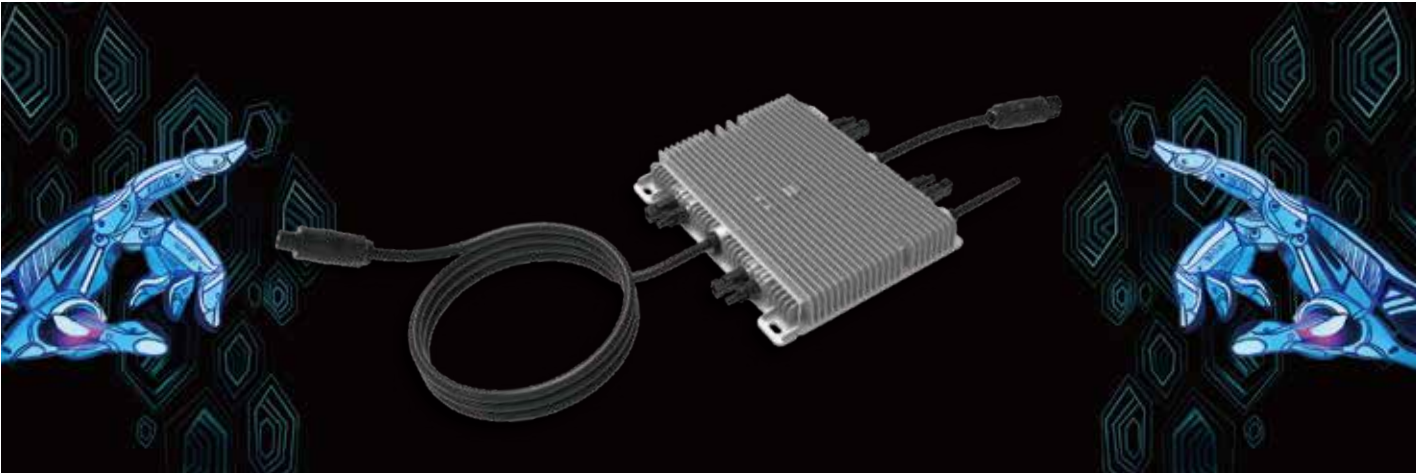
Deye microinverter 300-2000W

- Support reactive power compensation, comply with UL code.
- Module level monitoring, Max. 4 MPPTs design
- Max. DC input current 13A, adapt to 550W 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



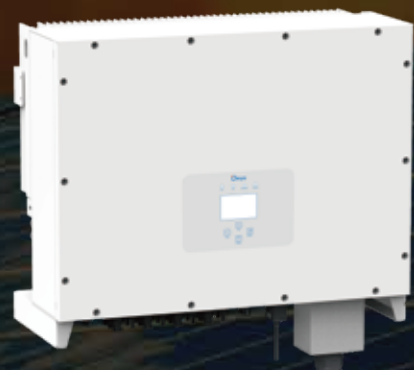
Deye Inverter Portfolio



Single Phase
String Inverter



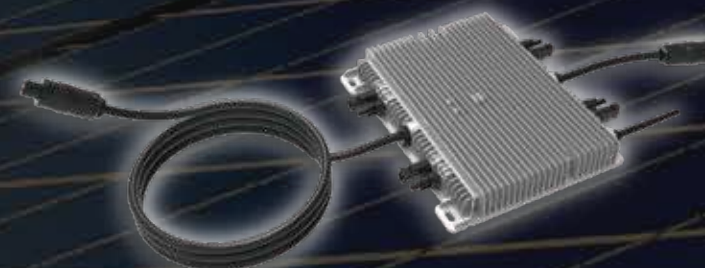
Three Phase
String Inverter



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)	13		
Max. Short Circuit Current (A)	19.5		
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	<3%		
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	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1, ABNT NBR 16149, ABNT NBR 16150, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3		
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)



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	7.8
Max. DC Input Voltage (V)	550			
Start-up DC Input Voltage (V)	80			
MPPT Operating Range (V)	70~550			
Max. DC Input Current (A)	13+13			
Max. Short Circuit Current (A)	19.5+19.5			
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	<3%			
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	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1, ABNT NBR 16149, ABNT NBR 16150, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12			
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 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
Input Side		
Max. DC Input Power (kW)	9.8	10.4
Max. DC Input Voltage (V)	550	
Start-up DC Input Voltage (V)	80	
MPPT Operating Range (V)	70~550	
Max. DC Input Current (A)	13+26	13+26
Max. Short Circuit Current (A)	19.5+39	19.5+39
Number of MPPT / Strings per MPPT	2 / 1+2	2 / 1+2
Output Side		
Rated Output Power (kW)	7.5	8
Max. Active Power (kW)	8.3	8.8
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
Max. AC Output Current (A)	35.9	38.3
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<3%	
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 NBR 16150, ABNT NBR IEC 62116, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN	
Operating Surroundings Humidity	0-100%	
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12	
Features		
DC Connection	MC-4 mateable	
AC Connection	IP65 rated plug	
Display	LCD1602	
Interface	RS485/RS232/Wifi/LAN	

Single Phase String Inverter

SUN- 9 / 10 / 10.5 K-G



2 MPP tracker, Max. efficiency up to 97.7%



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-9K-G	SUN-10K-G	SUN-10.5K-G
Input Side			
Max. DC Input Power (kW)	11.7	13	13.7
Max. DC Input Voltage (V)	550		
Start-up DC Input Voltage (V)	80		
MPPT Operating Range (V)	70~550		
Max. DC Input Current (A)	25+25		
Max. Short Circuit Current (A)	37.5+37.5		
Number of MPPT / Strings per MPPT	2 / 2		
Output Side			
Rated Output Power (kW)	9	10	10.5
Max. Active Power (kW)	9.9	11	11.6
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)	39.1	43.5	45.7
Max. AC Output Current (A)	43	47.8	50.2
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<3%		
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)	330Wx410Hx198.5D		
Weight (kg)	15.7		
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 NBR 16150, ABNT NBR IEC 62116		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12		
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 /12 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	SUN-12K -G03
Input Side							
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6
Max. DC Input Voltage (V)	1000						
Start-up DC Input Voltage (V)	140						
MPPT Operating Range (V)	120~850						
Max. DC Input Current (A)	13+13						
Max. Short Circuit Current (A)	19.5+19.5						
Number of MPPT / Strings per MPPT	2/1						
Output Side							
Rated Output Power (kW)	4	5	6	7	8	10	12
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11	13.2
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	17.4
Max. AC Output Current (A)	6.4	8	9.6	11.1	12.8	15.9	19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
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)	330Wx457.5Hx185D						
Weight (kg)	10						
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	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12						
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 /12 K-G03 Plus



-  2 MPP trackers, Max. efficiency up to 98.6%
-  16 Max. DC input current of 16A/string, adapt to 600W solar panel
-  Zero export application, VSG application
-  Wide output voltage range
-  String intelligent monitoring (optional)
-  Anti-PID function (Optional)

Model	SUN-4K -G03-P	SUN-5K -G03-P	SUN-6K -G03-P	SUN-7K -G03-P	SUN-8K -G03-P	SUN-10K -G03-P	SUN-12K -G03-P
Input Side							
Max. DC Input Power (kW)	5.2	6.5	7.8	9.1	10.4	13	15.6
Max. DC Input Voltage (V)	1000						
Start-up DC Input Voltage (V)	140						
MPPT Operating Range (V)	120~850						
Max. DC Input Current (A)	16+16						
Max. Short Circuit Current (A)	24+24						
Number of MPPT / Strings per MPPT	2/1						
Output Side							
Rated Output Power (kW)	4	5	6	7	8	10	12
Max. Active Power (kW)	4.4	5.5	6.6	7.7	8.8	11	13.2
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	17.4
Max. AC Output Current (A)	6.4	8	9.6	11.1	12.8	15.9	19.1
Output Power Factor	0.8 leading to 0.8 lagging						
Grid Current THD	<3%						
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)	330Wx457.5Hx205D						
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	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN						
Operating Surroundings Humidity	0-100%						
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-2, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12						
Features							
DC Connection	MC-4 mateable						
AC Connection	IP65 rated plug						
Display	LCD1602						
Interface	RS485/RS232/Wifi/LAN						

Three Phase String Inverter

SUN- 15 / 17 K-G03



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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-15K-G03	SUN-17K-G03
Input Side		
Max. DC Input Power (kW)	19.5	22.1
Max. DC Input Voltage (V)	1000	
Start-up DC Input Voltage (V)	250	
MPPT Operating Range (V)	200~850	
Max. DC Input Current (A)	13+26	
Max. Short Circuit Current (A)	19.5+39	
Number of MPPT / Strings per MPPT	2 / 1+2	
Output Side		
Rated Output Power (kW)	15	17
Max. Active Power (kW)	16.5	18.7
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)	21.8	24.6
Max. AC Output Current (A)	23.9	27.1
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<3%	
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)	330Wx472Hx202D	
Weight (kg)	15	
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<40 dB	
Cooling Concept	Smart cooling	
Max. Operating Altitude Without Derating	2000m	
Designed Lifetime	>20 years	
Grid Connection Standard	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683, VDE 0126-1-1, RD1699, UNE 206006 IN, UNE 206007-1 IN, UNE 217001 IN	
Operating Surroundings Humidity	0-100%	
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12	
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-G04



2 MPP trackers, Max. efficiency up to 98.6%



Zero export application, VSG application



String intelligent monitoring (optional)



Max. DC input current of 16A/string, adapt to 600W solar panel



Wide output voltage range



Anti-PID function (Optional)

Model	SUN-18K-G04	SUN-20K-G04	SUN-25K-G04
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)	200~850		
Max. DC Input Current (A)	32+32		
Max. Short Circuit Current (A)	48+48		
Number of MPPT / Strings per MPPT	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	<3%		
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)	330Wx508Hx206D		
Weight (kg)	20.8		
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	EN50549-1,VDE 0126-1-1		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2,IEC61000-6-2,IEC61000-6-4		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter

SUN- 30 / 33 / 36 K-G04



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-30K-G04	SUN-33K-G04	SUN-36K-G04
Input Side			
Max. DC Input Power (kW)	39	42.9	46.8
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		
Max. Short Circuit Current (A)	60+60		
Number of MPPT / Strings per MPPT	2 / 4		
Output Side			
Rated Output Power (kW)	30	33	36
Max. Active Power (kW)	33	36.3	39.6
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	52.2
Max. AC Output Current (A)	47.8	52.8	57.4
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<3%		
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)	362Wx577Hx215D		
Weight (kg)	25.5		
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	EN50549-1,VDE 0126-1-1		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2,IEC61000-6-2,IEC61000-6-4		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter

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



Max. 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-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
Max. Short Circuit Current (A)	60+60	60+60+60	60+60+60	60+60+60	60+60+60	60+60+60+60
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	<3%					
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	EN50549-1, IEC61727, IEC62116, IEC60068, IEC61683					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD 240 × 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%



Zero export application, VSG application



String intelligent monitoring (optional)



Wide output voltage range



Anti-PID function (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			
Max. Short Circuit Current (A)	60+60+60+60			
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	<3%			
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	IEC61727, IEC62116, IEC60068, IEC61683			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD 240 × 160			
Interface	RS485/RS232/Wifi/LAN			

Three Phase String Inverter

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



Max. 6 MPP 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-90K-G03	SUN-100K-G03	SUN-110K-G03
Input Side						
Max. DC Input Power (kW)	105	112.5	120	135	150	150
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					
Max. Short Circuit Current (A)	60+60+60+60+60+60					
Number of MPPT / Strings per MPPT	6 / 4					
Output Side						
Rated Output Power (kW)	70	75	80	90	100	110
Max. Active Power (kW)	77	82.5	88	99	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	130.4	144.9	159.4
Max. AC Output Current (A)	111.6	119.6	127.5	143.5	159.4	175.4
Output Power Factor	>0.99					
Grid Current THD	<3%					
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)	838Wx568Hx323D					
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	IEC61727, IEC62116, IEC60068, IEC61683, VDE0126-1-1					
Operating Surroundings Humidity	0-100%					
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12					
Features						
DC Connection	MC-4 mateable					
AC Connection	IP65 rated plug					
Display	LCD 240 × 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

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

F 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)	13+13	13+26
Max. Short Circuit Current (A)	19.5+19.5	19.5+39
Number of MPPT / Strings per MPPT	2 / 1	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	<3%	
DC Injection Current (mA)	<0.5%	
Grid Frequency Range	47~52 or 57~62 (Optional)	
Efficiency		
Max. Efficiency	98.3%	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)	330Wx457.5Hx185D	330Wx472Hx202D
Weight (kg)	10	15
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<25 dB	<45 dB
Cooling Concept	Natural cooling	Smart cooling
Max. Operating Altitude Without Derating	2000m	
Designed Lifetime	>20 years	
Grid Connection Standard	ABNT NBR 16149, ABNT NBR 16150, ABNT NBR IEC 62116	
Operating Surroundings Humidity	0-100%	
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12	
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 K-G03-LV SUN- 12 / 15 K-G02-LV



- LV

127/220Vac and 60Hz, Three phase system
- Wide output voltage range
- Max. 2 MPP trackers, Max. efficiency up to 98.6%
- Anti-PID function (Optional)
- F

Zero export application, VSG application
- String intelligent monitoring (optional)

Model	SUN-10K-G03-LV	SUN-12K-G02-LV	SUN-15K-G02-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)	32+32		
Max. DC Input Current (A)	48 /48		
Number of MPPT / Strings per MPPT	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	<3%		
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)	330Wx508Hx206D		
Weight (kg)	20.8		
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	EN50549-1,VDE 0126-1-1		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2,IEC61000-6-2,IEC61000-6-4		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD1602		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter (LV)

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



- 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)
- F

Zero export application, VSG application
- String intelligent monitoring (optional)

Model	SUN-20K-G02-LV	SUN-25K-G02-LV	SUN-30K-G02-LV
Input Side			
Max. DC Input Power (kW)	26	32.5	39
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
Max. Short Circuit Current (A)	60+60	60+60+60	60+60+60+60
Number of MPPT / Strings per MPPT	2 / 3	3 / 3	4 / 3
Output Side			
Rated Output Power (kW)	20	25	30
Max. Active Power (kW)	22	27.5	33
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
Max. AC Output Current (A)	57.8	72.2	86.6
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<3%		
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	ABNT NBR 16149, ABNT NBR 16150, ABNT NBR IEC 62116		
Operating Surroundings Humidity	0-100%		
Safety EMC / Standard	IEC62109-1/-2,IEC61000-6-2,IEC61000-6-4,IEC61000-3-11, IEC61000-3-12		
Features			
DC Connection	MC-4 mateable		
AC Connection	IP65 rated plug		
Display	LCD 240 × 160		
Interface	RS485/RS232/Wifi/LAN		

Three Phase String Inverter (LV)

SUN- 35 / 40 / 45 / 50 K-G-LV



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

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

F Zero export application, VSG application

~ Wide output voltage range

PID Anti-PID function (Optional)

Graph String intelligent monitoring (optional)

Model	SUN-35K-G02-LV	SUN-40K-G-LV	SUN-45K-G-LV	SUN-50K-G-LV
Input Side				
Max. DC Input Power (kW)	45.5	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)	30+30+30+30	40+40+40+40		
Max. Short Circuit Current (A)	45+45+45+45	60+60+60+60		
Number of MPPT / Strings per MPPT	4 / 3	4 / 4	4 / 4	4 / 4
Output Side				
Rated Output Power (kW)	35	40	45	50
Max. Active Power (kW)	38.5	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)	91.9	104.9	118.1	131.2
Max. AC Output Current (A)	101.1	115.5	129.9	144.4
Output Power Factor	0.8 leading to 0.8 lagging			
Grid Current THD	<3%			
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)	700W×575H×297D			
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	ABNT NBR 16149, ABNT NBR 16150, ABNT NBR IEC 62116			
Operating Surroundings Humidity	0-100%			
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-2, IEC61000-6-4, IEC61000-3-11, IEC61000-3-12			
Features				
DC Connection	MC-4 mateable			
AC Connection	IP65 rated plug			
Display	LCD 240 × 160			
Interface	RS485/RS232/Wifi/LAN			

Hybrid Inverter

SUN- 3 / 3.6 K-SG04LP1



Colorful touch LCD,
IP65 protection degree



6 time periods for battery
charging/discharging



Max. charging/discharging
current of 140A



Frequency droop control,
Max.16pcs parallel



DC couple and AC couple to
retrofit existing solar system



Support storing energy from
diesel generator

Model	SUN-3K-SG04LP1-24	SUN-3K-SG04LP1	SUN-3.6K-SG04LP1
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range (V)	20~30	40~60	40~60
Max. Charging Current (A)	140	70	85
Max. Discharging Current (A)	140	70	85
Charging Curve	3 Stages / Equalization		
External Temperature Sensor	Yes		
Charging Strategy for Li-Ion Battery	Self-adaption to BMS		
PV String Input Data			
Max. DC Input Power (W)	3900	3900	4680
PV Input Voltage (V)	370 (100~500)		
MPPT Range (V)	125~425		
Full Load DC Voltage Range (V)	240~425		
Start-up Voltage (V)	150		
PV Input Current (A)	13	13	13+13
Max. PV ISC (A)	17	17	17+17
No.of MPPT Trackers	1	1	2
No.of Strings Per MPPT Tracker	1	1	1+1
AC Output Data			
Rated AC Output and UPS Power (W)	3000	3000	3600
Max. AC Output Power (W)	3300	3300	3960
Peak Power (off grid)	2 times of rated power, 10 S		
AC Output Rated Current (A)	13	13	16
Max. AC Current (A)	15	15	18
Max. Continuous AC Passthrough (A)	35		
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	Natural cooling		
Noise (dB)	<30 dB		
Communication with BMS	RS485; CAN		
Weight (kg)	14		
Size (mm)	330W×559.5H×228D		
Protection Degree	IP65		
Installation Style	Wall-mounted		
Warranty	5 years		

Hybrid Inverter

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



Colorful touch LCD,
IP65 protection degree



6 time periods for battery
charging/discharging



Max. charging/discharging
current of 120A



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)	40~60			
Max. Charging Current (A)	90		120	
Max. Discharging Current (A)	90		120	
Charging Curve	3 Stages / Equalization			
External Temperature Sensor	Yes			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	4680		6500	
PV Input Voltage (V)	370 (100~500)			
MPPT Range (V)	125~425			
Full Load DC Voltage Range (V)	240~425			
Start-up Voltage (V)	150			
PV Input Current (A)	13+13			
Max. PV ISC (A)	17+17			
No.of MPPT Trackers	2			
No.of Strings Per MPPT Tracker	1+1			
AC Output Data				
Rated AC Output and UPS Power (W)	3600		5000	
Max. AC Output Power (W)	3960		5500	
Peak Power (off grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	15.7		21.7	
Max. AC Current (A)	18		25	
Max. Continuous AC Passthrough (A)	35			
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 Connection Standard	EN50549-1, CEI 0-21, IEC61727, IEC62116, IEC60068, IEC61683, ABNT NBR 16149, ABNT NBR 16150, AS4777.2, VDE 4105, XP C15-712-3, RD1699, UNE 206006 IN, UNE 206007-1 IN			
Safety EMC / Standard	IEC62040-1,IEC62109-1/-2,IEC61000-6-1,IEC61000-6-3,IEC61000-3-11, IEC61000-3-12, IEC61000-4-16,IEC61000-4-18,IEC61000-4-29			
General Data				
Operating Temperature Range (°C)	-25~60°C, >45°C Derating			
Cooling	Natural cooling			
Noise (dB)	<30 dB			
Communication with BMS	RS485; CAN			
Weight (kg)	20.5			
Size (mm)	330W×580H×232D			
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 time periods for battery
charging/discharging



Max. charging/discharging
current of 190A



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)	40~60			
Max. Charging Current (A)	120	135	190	190
Max. Discharging Current (A)	120	135	190	190
Charging Curve	3 Stages / Equalization			
External Temperature Sensor	Yes			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	6500	7800	9880	10400
PV Input Voltage (V)	370 (100~500)			
MPPT Range (V)	125-425			
Start-up Voltage (V)	150			
PV Input Current (A)	11+11	22+11	22+22	22+22
Max. PV ISC (A)	16.5+16.5	28+16.5	28+28	28+28
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)	5000	6000	7600	8000
Max. AC Output Power (W)	5500	6600	8360	8800
Peak Power (off grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	20.8	25	31.7 / 33	33.4 / 35
Max. AC Current (A)	22.9	27.5	34.9 / 36.3	36.7 / 38.5
Max. Continuous AC Passthrough (A)	35	40	50	50
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	ABNT NBR 16149,ABNT NBR 16150,ABNT NBR 62116, AS4777.2, VDE 0126-1-1, NRS 097-2-1, CEC Guideline, UL1741, CSA C22.2 NO.107.1-16, UL 1741 SA, CPUC RULE 21, UL1699B, UL 1741 CRD			
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12, IEC61000-2-2, 47 CFR Part 15			
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- 6 / 8 / 10 / 12 K-SG04LP3-EU/AU



- 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-6K-SG04LP3 -EU/AU	SUN-8K-SG04LP3 -EU/AU	SUN-10K-SG04LP3 -EU/AU	SUN-12K-SG04LP3 -EU/AU
Battery Input Data				
Battery Type	Lead-acid or Li-Ion			
Battery Voltage Range (V)	40~60			
Max. Charging Current (A)	150	190	210	240
Max. Discharging Current (A)	150	190	210	240
Charging Curve	3 Stages / Equalization			
External Temperature Sensor	Yes			
Charging Strategy for Li-Ion Battery	Self-adaption to BMS			
PV String Input Data				
Max. DC Input Power (W)	7800	10400	13000	15600
PV Input Voltage (V)	550 (150~800)			
MPPT Range (V)	200-650			
Start-up Voltage (V)	160			
PV Input Current (A)	13+13	13+13	26+13	26+13
Max. PV ISC (A)	17+17	17+17	34+17	34+17
No.of MPPT Trackers	2			
No.of Strings Per MPPT Tracker	1+1	1+1	2+1	2+1
AC Output Data				
Rated AC Output and UPS Power (W)	6000	8000	10000	12000
Max. AC Output Power (W)	6600	8800	11000	13200
Peak Power (off grid)	2 times of rated power, 10 S			
AC Output Rated Current (A)	9	12	15	18
Max. AC Current (A)	13.5	18	23	27
Max. Continuous AC Passthrough (A)	50			
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	IEC61727, IEC62116, IEC60068, IEC61683, NRS 097-2-1			
Safety EMC / Standard	IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-11, IEC61000-3-12			
General Data				
Operating Temperature Range (°C)	-25~60°C, >45°C Derating			
Cooling	Smart cooling			
Noise (dB)	<45 dB			
Communication with BMS	RS485; CAN			
Weight (kg)	34.5			
Size (mm)	422W×658H×281D			
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	10.4Ax2			
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℃			
Size (mm)	185Wx161Hx29D (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	10.4Ax4			
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℃			
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-US-220/EU-230
SUN500G3-US-220/EU-230



Microinverter

Model	SUN300G3-US-220	SUN300G3-EU-230	SUN500G3-US-220	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	19.5A			
Max. input Current	13A			
Number of MPPT / Strings per MPPT	1 / 1			
Output Data (AC)				
Rated output Power	300W		500W	
Rated output Current	1.4A	1.3A	2.3A	2.2A
Nominal Voltage / Range (this may vary with grid standards)	220V / 176-242V	230V / 184-265V	220V / 176-242V	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)	212W×229H×40D (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			
Grid Connection Standard	EN50549-1, VDE0126-1-1, VDE 4105, ABNT NBR 16149, ABNT NBR 16150, ABNT NBR 62116, RD1699, UNE 206006 IN, UNE 206007-1 IN, IEEE1547			
Safety EMC / Standard	UL 1741, IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3			
Warranty	10 years			

 Support reactive power compensation

 Rapid shutdown function

 PLC, Zigbee or WIFI communication

 IP67 protection degree, 10 years warranty

 1 MPP tracker, module level monitoring

Microinverter

SUN600G3-US-220/EU-230

SUN800G3-US-220/EU-230 SUN1000G3-US-220/EU-230



Support reactive power compensation

PLC, Zigbee or WIFI communication

2 MPP tracker,s module level monitoring

Rapid shutdown function

IP67 protection degree, 10 years warranty

Microinverter

Model	SUN600G3 -US-220	SUN600G3 -EU-230	SUN800G3 -US-220	SUN800G3 -EU-230	SUN1000G3 -US-220	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	19.5A×2					
Max. input Current	13A×2					
Number of MPPT / Strings per MPPT	2 / 1					
Output Data (AC)						
Rated output Power	600W		800W		1000W	
Rated output Current	2.7A	2.6A	3.6A	3.5A	4.5A	4.3A
Nominal Voltage / Range (this may vary with grid standards)	220V/176-242V	230V/184-265V	220V/176-242V	230V/184-265V	220V/176-242V	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℃					
Size (mm)	212W×229H×40D (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					
Grid Connection Standard	EN50549-1, VDE0126-1-1, VDE 4105, ABNT NBR 16149, ABNT NBR 16150, ABNT NBR 62116, RD1699, UNE 206006 IN, UNE 206007-1 IN, IEEE1547					
Safety EMC / Standard	UL 1741, IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3					
Warranty	10 years					

Microinverter

SUN1300G3-US-220/EU-230 SUN1600G3-US-220/EU-230
SUN1800G3-US-220/EU-230 SUN2000G3-US-220/EU-230



- Support reactive power compensation
- PLC, Zigbee or WIFI communication
- 4 MPP tracker,s module level monitoring

- Rapid shutdown function
- IP67 protection degree, 10 years warranty
- Max. DC input current of 13A, adapt to 550W PV module

Microinverter

Model	SUN1300 G3-US-220	SUN1300 G3-EU-230	SUN1600 G3-US-220	SUN1600 G3-EU-230	SUN1800 G3-US-220	SUN1800 G3-EU-230	SUN2000 G3-US-220	SUN2000 G3-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	19.5A×4							
Max. input Current	13A×4							
Number of MPPT / Strings per MPPT	4 / 1							
Output Data (AC)								
Rated output Power	1300W		1600W		1800W		2000W	
Rated output Current	5.9A	5.7A	7.3A	7A	8.2A	7.8A	9.1A	8.7A
Nominal Voltage / Range (this may vary with grid standards)	220V/ 176-242V	230V/ 184-265V	220V/ 176-242V	230V/ 184-265V	220V/ 176-242V	230V/ 184-265V	220V/ 176-242V	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							
Grid Connection Standard	EN50549-1, VDE0126-1-1, VDE 4105, ABNT NBR 16149, ABNT NBR 16150, ABNT NBR 62116, RD1699, UNE 206006 IN, UNE 206007-1 IN, IEEE1547							
Safety EMC / Standard	UL 1741, IEC62109-1/-2, IEC61000-6-1, IEC61000-6-3, IEC61000-3-2, IEC61000-3-3							
Warranty	10 years							

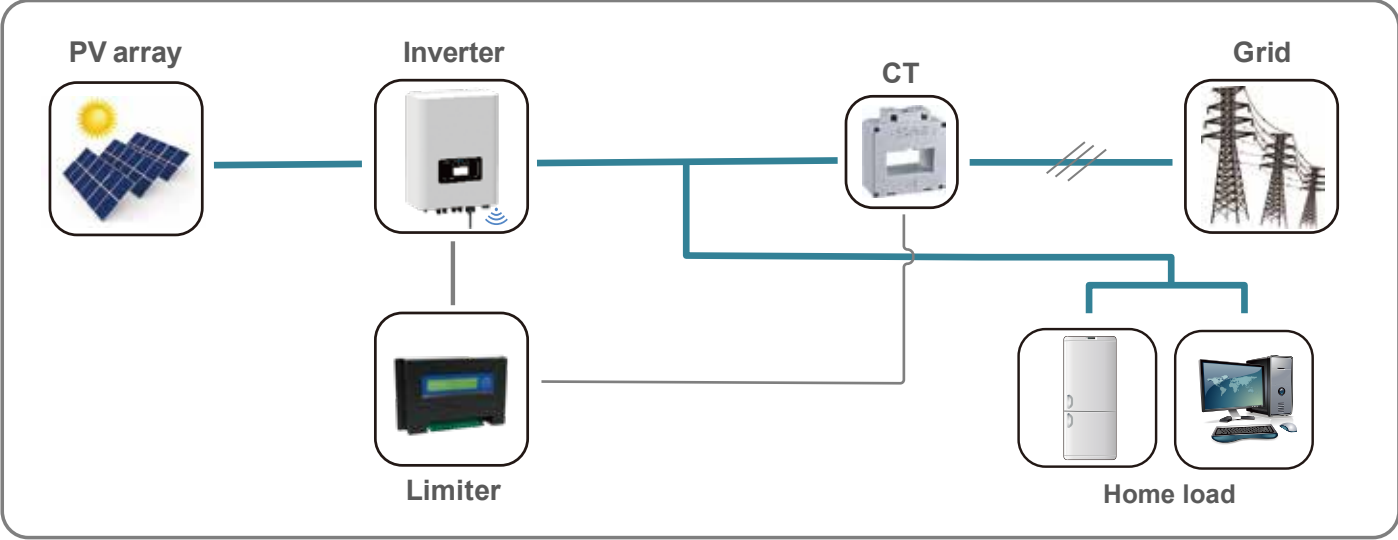
SUN-limiter



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

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	
Dimenstions (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℃
Humidity	≤95%
Applicable inverter type	Three-phase grid-tie inverter
Warranty	2 years

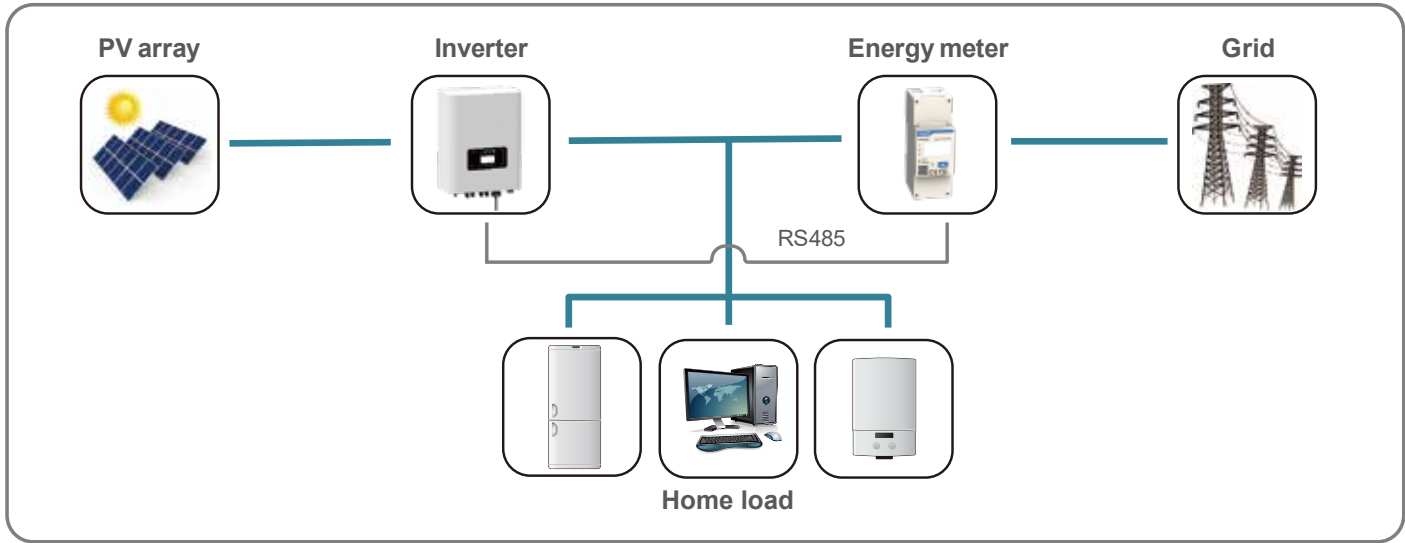
Zero-export Application Diagram



Energy Meter



Typical Application Diagram



Model	CHNT DDSU666	CHNT 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		
Dimenstions (L/H/W) in mm	36×85×66	100×72×66
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	32	
Regulated working temperature range	-25℃~+55℃	-10℃~+45℃
Limited working temperature range	-40℃~+70℃	-25℃~+75℃
Humidity	≤75%	
Warranty	1.5 years	

Model	EASTRON SDM 230 Modbus	EASTRON SDM 630-Modbus V2	EASTRON SDM 630 MCT
Max. AC current measurement (A)	100	100	1-9999A (with CT)
Direct Voltage measurement between phases	/	147-480V	50-950V
Direct measurement between phase and neutral	176~276V	85~480V	50-550V
Accuracy Class			
Active power	Class1		
Reactive power	Class2		
Power Supply			
Power consumption	≤2W / 10VA	≤2W / 10VA	≤2W / 10VA
AC power supply input voltage	176-276V	85-480V	85-275V / 120-380V
AC power supply input frequency	50Hz	50/60Hz ±2%	50/60Hz ±2%
Generation Specifications			
Dimenstions (L/H/W) in mm	36×99×63	72×100×66	72×94.5×65
Weight (kg)	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℃		
Humidity	0~95%, non-Condensing		
Warranty	1.5 years		

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.

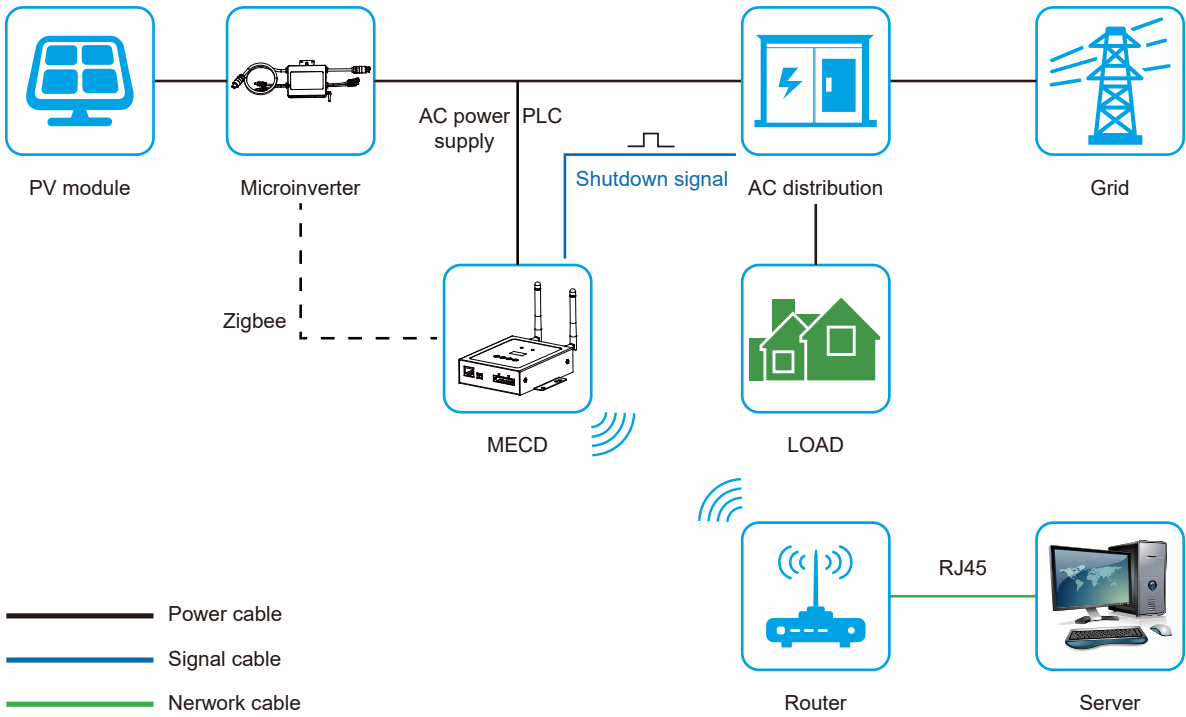


- ◆ Support quick shutdown remotely.
- ◆ Robust design, 3 years warranty.

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	
Dimenstions (L/H/W) in mm	133.6×132×35.5 mm
Weight (kg)	0.3
Operation temperature range	-20~+50℃
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.

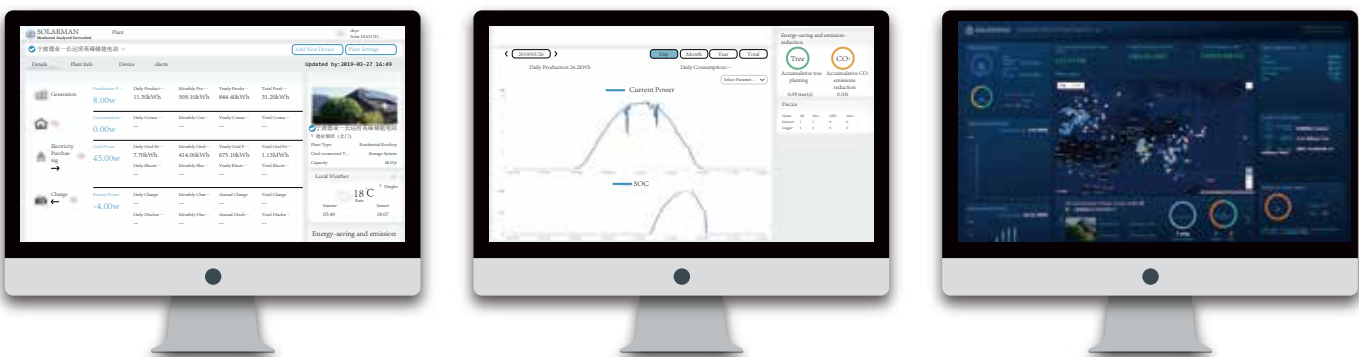


- External light indicator, logging status at a glance;
- Plug & play, pick power within inverter, no external power needed, easy to install;
- Independent from inverter to protect parts inside inverter, eliminate potential problems;
- IP65 water-proof design, resistant to bad weather, enhance stability;
- 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.

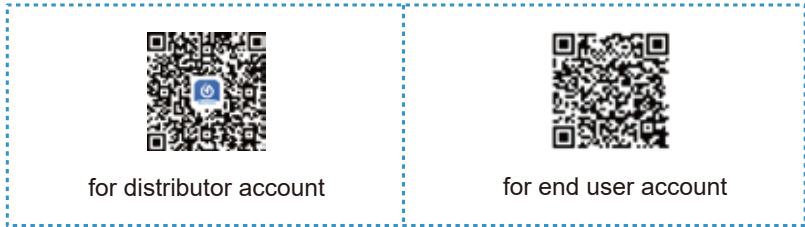
ProductModel	LSG-3	LSG-4	LSW-3	LS4G-3	LSE-3
Remote Communication Interface	GPRS	GPRS	WiFi	4G	LAN
Working Frequency	GSM850 / EGSM900 / DCS1800 / PCS 1900MHz	GSM850 / EGSM900 / DCS1800 / PCS 1900MHz	2.142GHz~2.484GHz	704MHZ-960MHZ 1710MHZ-2690MHZ	Adaptive Network; 10M / 100M
Satellite Positioning	/	GPS / 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 !



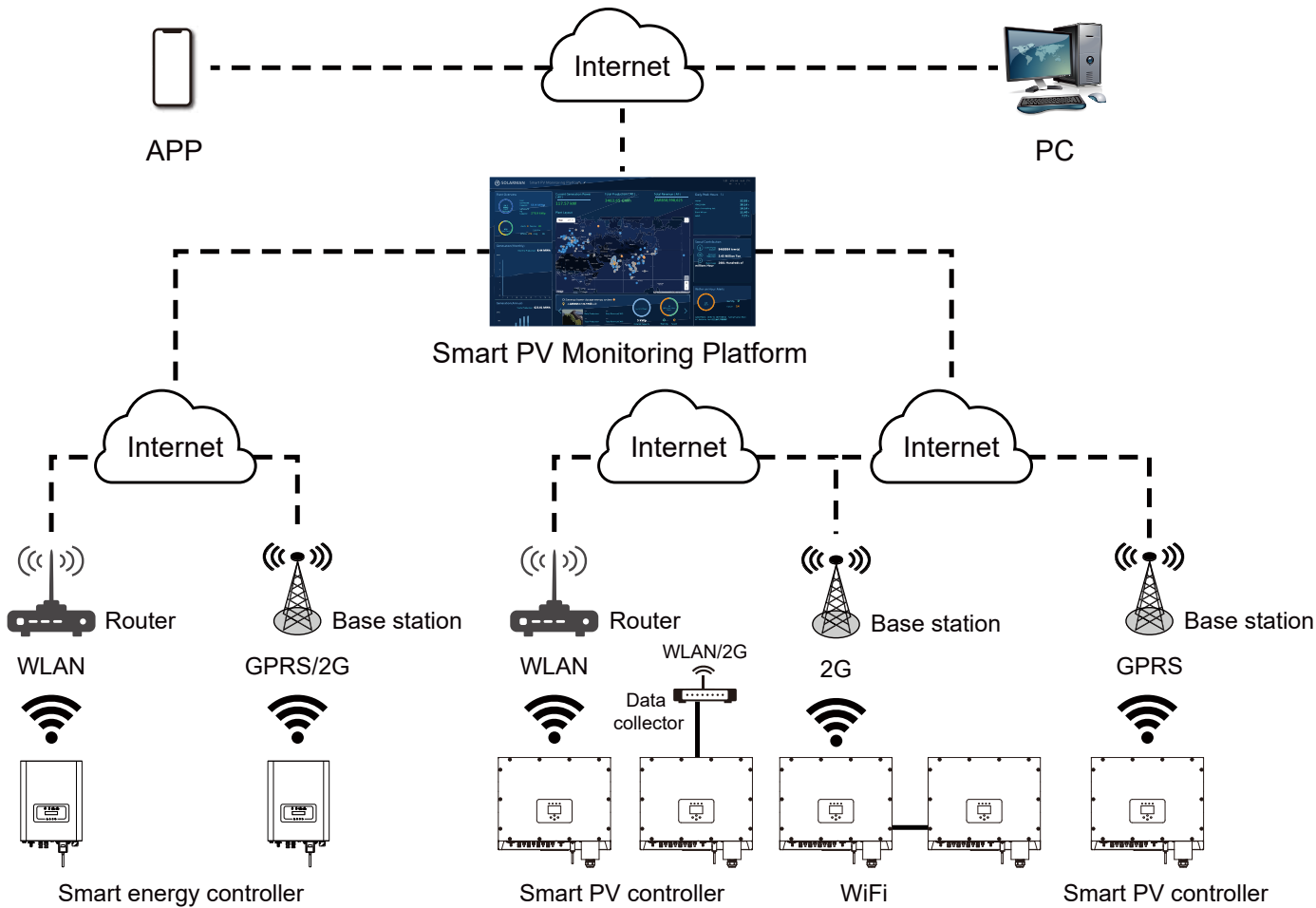
Efficiency

- 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