



Solar Systems 2021



INDEX

<u>GETTING TO KNOW OUR INVERTERS</u>	<u>8</u>
<u>STORAGE INVERTERS.....</u>	<u>11</u>
3.6kW ON-GRID PARITY INVERTER WITH STORAGE.....	11
3.6kW ON-GRID PARITY INVERTER WITH STORAGE + 7kW MPPT INPUT	13
5.5kW ON-GRID PARITY INVERTER WITH STORAGE.....	15
8.8kW ON-GRID PARITY INVERTER WITH STORAGE.....	17
5.5kW / 7.6kW ON-GRID PARITY INVERTERS WITH STORAGE.....	19
<u>3-PHASE STORAGE INVERTERS</u>	<u>21</u>
8kW / 10kW / 12kW ON-GRID PARITY INVERTERS WITH STORAGE	21
<u>SINGLE-PHASE INVERTERS.....</u>	<u>23</u>
<u>3-PHASE STRING INVERTERS</u>	<u>27</u>
SUN-4 / 5 / 6 / 7 / 8 / 10 K-G03	27
SUN-12 / 15 K-G03	29
SUN-18 / 20 / 25 K-G02.....	31
SUN-30 / 33 / 35 / 40 / 45 / 50 K-G03	33
SUN-60 / 70 / 75 / 80 K-G02	35
SUN-70 / 75 / 80 / 100 K-G03	37
<u>3-PHASE STRING INVERTERS (LV)</u>	<u>39</u>
SUN-6 / 8 K-G03-LV.....	39
SUN-10 / 12 / 15 K-G03-LV	41
SUN-20 / 25 / 30 / 35 K-G02-LV	43
SUN-40 / 45 / 50 K-G-LV	45
<u>MICRO INVERTERS.....</u>	<u>47</u>
SUN500G-230-EU / SUN600G2-US-208/240 SUN600G2-US-220 / SUN600G2-US-127	47
SUN1200G-230-EU / SUN1300G2-US-208/240 / SUN1300G	49
SUN300G3-EU-230 / SUN500G3-EU-230	51
SUN600G3-EU-230 / SUN800G3-EU-230 / SUN1000G3-EU-230	53

SUN1300G3-EU-230 / SUN1600G3-EU-230 / SUN1800G3-EU-230 / SUN2000G3-EU-230	55
<u>COMPONENTS</u>	<u>57</u>
MECD.....	57
SOLARMAN STICK LOGGER.....	59
SUNSYNK STICK LOGGER	61
SMART PV MANAGEMENT PLATFORM.....	63
<u>PROTECTION DEVICES.....</u>	<u>65</u>
MAINS SURGE PROTECTOR.....	65
ONE-WAY COMBINER BOX WITH LIGHTENING AND SURGE PROTECTOR.....	67
BATTERY ISOLATOR	69
TWO-WAY COMBINER BOX WITH LIGHTENING AND SURGE PROTECTOR.....	71
<u>SOLAR AIR CONDITIONING.....</u>	<u>73</u>
SOLAR POWERED HYBRID AIR CONDITIONING UNITS.....	73
<u>LITHIUM BATTERIES</u>	<u>75</u>
L051100-A	75
POWER-MAKER BATTERY.....	77
WALL-MOUNT COMPONENT	79
<u>POWER BANKS.....</u>	<u>80</u>
<u>POWER MAKER CABINETS.....</u>	<u>82</u>
<u>SOLAR PUMP</u>	<u>83</u>
<u>EV CHARGING.....</u>	<u>85</u>
22kW THREE-PHASE EV STATION.....	85
7kW SINGLE-PHASE HOME USED EV STATION.....	87
7kW SINGLE-PHASE COMMERCIAL EV STATION.....	89
<u>SOLAR POOL / WATER PUMP / WATER HEATER AC HYBRID CONVERTER KITS.....</u>	<u>93</u>

<u>STORAGE INVERTER KITS</u>	<u>94</u>
<u>PROFESSIONAL COMPLETE KITS.....</u>	<u>96</u>
<u>SOLAR PANELS</u>	<u>98</u>
240W BIFACIAL SOLAR PANELS	98
SUN-120HCLM	99
SUN-120HCLB	101



Mission Statement

Our mission is to provide high-quality green technology that will benefit both our customers and the environment. We will achieve this by innovative design, high standards in production, and great value for money within the world of renewable energy.

About Us

Established over 20 years ago, Sunsynk® is part of the Global Tech China Group and is based out of Hong Kong with manufacturing and design bases in Ningbo, China. We are closely partnered with the Science Department of Ningbo University, where our technology is jointly developed. The company has approximately 80 staff working on our projects at any one time.

Our key products fall within the categories described in this catalogue with further information appearing on our website; www.sunsynk.com.

The Global Tech China Group was founded in 2004 and is a company registered in Hong Kong, made up of British & Chinese engineers. The company has over 30 registered patents covering a wide spectrum of products, some of which have directly influenced the development of electrical appliances within the world since 2004.

Currently, Sunsynk exports to over 20 countries, including South Africa, the Philippines, Thailand, Australia, New Zealand, and the United Kingdom, where solar lighting and power storage products have proven to be very popular.

Homes of the Future

It is sensible that new-build houses both in the UK and abroad will simply adopt solar power and battery storage as part of the initial building design. As the mains electricity price rises, it will be a severe disadvantage to selling a house without having an installed means to power generation and power storage. As electric vehicles (EVs) become the norm, the amount of power consumed by a household will double and families will be paying careful attention to the number of kWhs on their monthly bills. It will become essential that power management systems are installed to allow consumers to make informed decisions on the amount of power their appliances consume and what can be turned off. Smart-Metering is the beginning of this change and later, once houses have their own battery storage and power management systems, customers will be able to economically manage their own consumption.

The range of Sunsynk products covers all aspects of power generation, storage and management and brings the future of green, environmentally friendly energy to households and industry.

Sunsynk Parity Inverter with Storage & Programmable Export Facility

The inverter can power all kinds of appliances in the home or office environment, including motor type appliances such as tube lights, fans, refrigerators, and air conditioners. It works rather like a water tank when storing electricity in that you fill the tank up from a generator or solar array and silently use the power until the tank is empty or close to empty. Subsequently, it can be topped back up again by the generating facilities.

When excess power is diverted to the grid, it is possible in countries such as the UK or Hong Kong to receive payback from the mains supplier. This will allow the customer to earn money and cover the cost of the inverter within a short period of time.

The Sunsynk® range of solar products is the culmination of years of research and development. This inverter is one of our newest products. This device combines the functions of inverter, solar charger, and battery charger to offer uninterrupted power support in a convenient size. Its comprehensive LCD display offers users configurable and accessible button operation to adjust functions such as battery charging current, AC/Solar charger priority, and acceptable input voltage in order to match different applications.

In addition to producing power via solar panels the Sunsynk Inverters can be connected to an engine generator system thereby assisting in the reduction of diesel. Power is generated and stored and used by the appliance / load in preference to the engine's direct power.

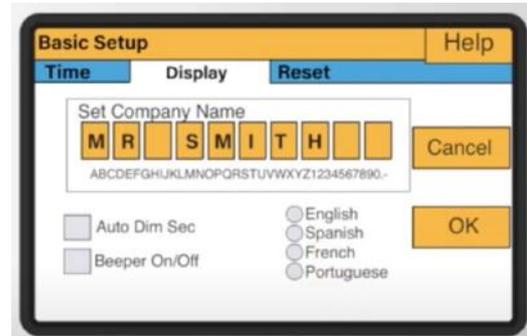
GETTING TO KNOW OUR INVERTERS

The Sunsynk Operating System is one of the best in its class. It provides real-time information as well as the daily cumulative readings for power consumption and generation. The screen is an interactive touch-screen and users can adjust it by their finger-tips. Special attention should be paid to the Bar Chart and the Cog icons.

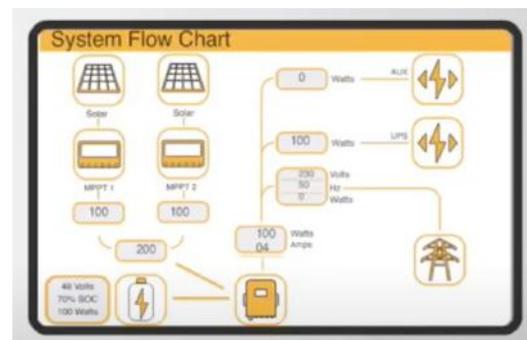
By clicking the various icons on the Home page, the user can access lots more information, like this simple spread sheet providing real-time data.

Let's start with the Basic Setup features which include setting Date & Time as well as the installer's name or telephone number.

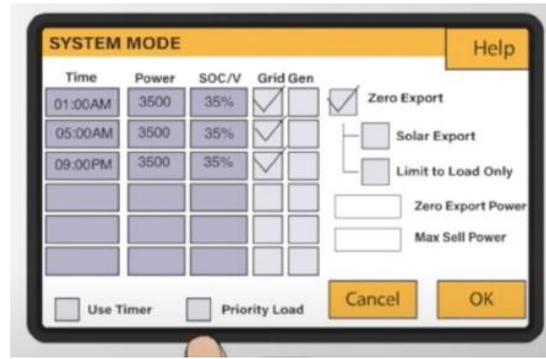
From the Basic Setup page, you could also have a choice of pre-installed languages. These are Spanish, French, Portuguese and English.



If you click on the Bar Chart icon you can access this System Flow Chart, showing exactly what the inverter is doing at any particular time and how the power is flowing through the device.



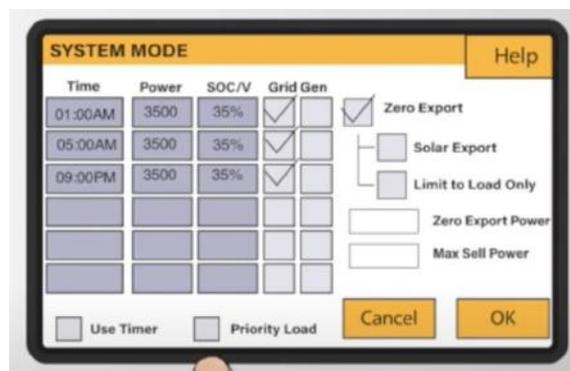
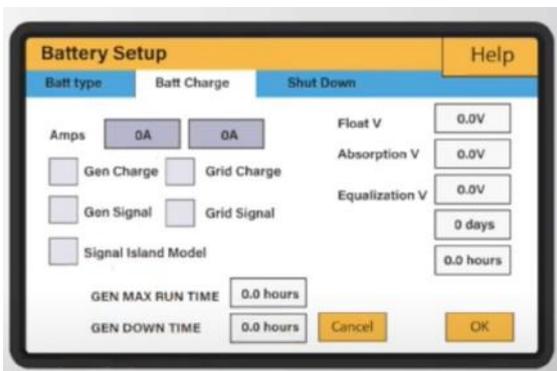
If you click the Cog icon in the top right-hand corner you can now access the Settings navigation page which will take you to the various programming pages.



The Battery Setup allows the user to choose between AGM-Battery, Lithium Battery or No Battery.

On the Battery Charge page, besides solar charging, the user can select to charge the battery packs from either the Grid or by Generator. If a signal is required to trigger a generator to start, this function can be selected from this page. In addition, we have the option of using the relay as an automatic response when the inverter is in Island-Mode

Also, the Battery Setup page lets you select the shutdown voltages when the inverter's power is OFF or if the battery is LOW.



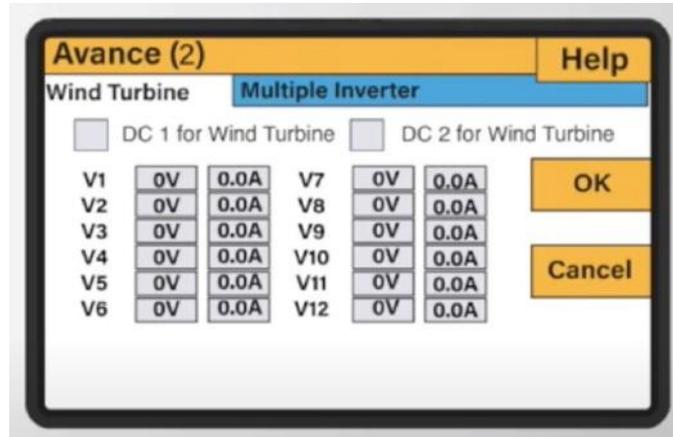
If you are using lithium batteries and connect a communication cable between the lithium batteries, BMS and inverter, you need to make sure the circuit is correct and communicating. By clicking the icon on the bottom right hand side of the SETTINGS page the user can confirm the status of this function.

Grid Setup is fairly simple and provides the parameters of the Grid Voltage and Frequency Upper and Lower settings. In most cases the default settings will be fine unless you have a particular problem with your mains power.

System Mode is the heart of the inverter and enables the user to set timings for the inverter to do various tasks. From here you can also select your solar to export power to the load or to the battery. In addition, you can control the maximum power of the inverter and the import power from the Grid to help prevent zero export.

Advanced settings allow you to parallel inverters into a multi-inverter system operating in either single-phase or three-phase rotation.

If you are using a Wind Turbine you can set up the profile of the wind turbine from this page.



Auxiliary Load can be used for many things like using a generator on a single inverter system peak power shaving or if using micro inverters off-grid. This page lets the user set the environment.

As well as the Setup pages the Sunsynk Operating System provides lots of information which is generally common to most inverters such as historic solar and grid power.

We also provide a comprehensive list of fault codes. This should be treated as a diagnostic tool to check that your whole system is operating correctly and that there are no earth-faults on your solar panels and there are no over or under-voltages and over-currents

There are many other pages on the Sunsynk operating system and this is just a simple glimpse of what it can do. We believe we have the best operating system out of any hybrid inverter the easiest to use and program. Each page also has a simple Help Menu to assist the user. No power, no problem with Sunsynk.

STORAGE INVERTERS

3.6kW On-Grid Parity Inverter with Storage

SUNSYNK-3.6K-SG01LP1 IP65

The Sunsynk 3.6kW Parity Inverter is ideal for small-scale AC applications. The 3.6kW hybrid is our flagship inverter for use in places where you are limited to the inverter size, such as United Kingdom and Australia.

It has multiple operating modes: Grid-Tied, Off-Grid, UPS, and Hybrid. The array size ranges between 1.2 to 4.6kW, and the inverter possesses software features common with our larger models. It carries a weatherproofing rating of IP65 and is fitted with one MPPT port.



Features:

- Maximum efficiency of 97.6% with a wide input range.
- Natural cooling - IP65 protected.
- Compact and light design for easy installation.
- Transformerless GT technology.
- RS485 Wi-Fi interface.
- Built-in protection features.
- Built-in anti-overflow function.
- 25 years lifespan.

Model	SUNSYNK-3.6K-SG01LP1
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	90A
Max. Discharging Current	90A
Charging Curve	3 Stages/Equalisation
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
PV String Input Data	
Max. DC Input Power	4680W
PV Input Voltage	370V (100V~500V)
MPPT Range	125~425V
Full Load DC Voltage Range	240~425V
Start-up Voltage	150V
PV Input Current	11A
No. of MPPT Trackers	1
No. of Strings Per MPPT Tracker	1
AC Output Data	
Rated AC Output and UPS Power	3600W
Max. AC Power	3960W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	15.7A
Max AC Output Current	18A
Max Continuous AC Passthrough	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%
MPPT Efficiency	96.50%
Euro 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
Certifications and Standards	
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05
Safety Regulation	IEC62109-1, IEC62109-2
EMC	EN61000-6-1, EN61000-6-3
General Data	
Operating Temperature Range	-25~60°C, >45°C Derating
Cooling	Natural Cooling
Noise	<30dB
Communication with BMS	RS485; CAN
Weight	20.5kg
Size (Length x Width x Height)	580 x 330 x 208 mm
Protection Degree	IP65
Warranty	5 years

STORAGE INVERTERS

3.6kW On-Grid Parity Inverter with Storage + 7kW MPPT Input

SUNSYNK-3.6K-SG02LP1 IP65

The Sunsynk hybrid inverter has many operating modes and it can be connected to several input types, such as PV, AC grid, batteries, generator, microinverter, and wind turbines. It is a complete solution. The 3.6kW inverter with the 7kW MPPT is perfect for the UK market. Now you can have enough solar power to charge your batteries and provide the load the whole day.

For this model, the array size ranges between 1.2 to 4.6kW and it has several software features common with our larger models. It carries a weatherproofing rating of IP65 and is fitted with two MPPT ports.



Features:

- Maximum efficiency of 97.6% with a wide input range.
- Double MPPT design with precise MPPT algorithm.
- Natural cooling - IP65 protection.
- Compact and light design for easy installation.
- Transformerless GT technology.
- RS485 Wi-Fi interface.
- Built-in protection features.
- Built-in anti-overflow function.
- 25 years lifespan.

Model	SUNSYNK-3.6K-SG02LP1
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range (V)	40~60V
Max. Charging Current (A)	90A
Max. Discharging Current (A)	90A
Charging Curve	3 Stages/Equalisation
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
PV String Input Data	
Max. DC Input Power (W)	7000W
Voc Max. (V)	500V
MPPT Range (V)	125~425V
Full Load DC Voltage Range (V)	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
Max. AC Power (W)	3960W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current (A)	15.7A
Max AC Output Current (A)	18A
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%
MPPT Efficiency	96.50%
Euro 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
Certifications and Standards	
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05
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
Communication with BMS	RS485; CAN
Weight (kg)	20.5
Size (Length x Width x Height)	580 x 330 x 208 mm
Protection Degree	IP65
Installation Style	Wall-mounted

STORAGE INVERTERS

5.5kW On-Grid Parity Inverter with Storage

SUNSYNK-5.5K-SG01LP1 IP65

Here is a mid-range On-grid Parity Inverter that carries the same features as the larger inverters. The 5.5 kW inverter is our best-selling hybrid inverter with 2 MPPT ports. It is perfect for most applications.

The size is aimed at domestic premises with sufficient roof space for solar or wind power. Ideal for solar arrays ranging from 2.5kW to 4.8kW. It carries a weatherproofing rating of IP65 and is fitted with 2 x MPPT ports.



Features:

- Maximum efficiency of 97.6% with a wide input range.
- Double MPPT design with precise MPPT algorithm.
- Fan cooling - IP65 protection.
- Compact and light design for easy installation.
- Transformer-less GT technology.
- RS485 Wi-Fi interface.
- Built-in protection features.
- Built-in anti-overflow function.
- 25 years lifespan.

Model	Sunsynk-5.5K-SG01LP1
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	120A
Max. Discharging Current	120A
Charging Curve	3 Stages/Equalisation
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
PV String Input Data	
Max. DC Input Power	6500W
PV Input Voltage	370V (100V~500V)
MPPT Range	125~425V
Full Load DC Voltage Range	240~425V
Start-up Voltage	150V
PV Input Current	11A+11A
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	1+1
AC Output Data	
Rated AC Output and UPS Power	5000W
Max. AC Power	5500W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	21.7A
Max AC Output Current	25A
Max Continuous AC Passthrough	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%
MPPT Efficiency	96.50%
Euro 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
Certifications and Standards	
Grid Regulation	VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05
Safety Regulation	IEC62109-1, IEC62109-2
EMC	EN61000-6-1, EN61000-6-3
General Data	
Operating Temperature Range	-25~60°C, >45°C Derating
Cooling	Fan
Noise	<30dB
Communication with BMS	RS485; CAN
Weight	20.5kg
Size (Length x Width x Height)	580 x 330 x 208 mm
Protection Degree	IP65
Warranty	5 years

STORAGE INVERTERS

8.8kW On-Grid Parity Inverter with Storage

SUNSYNK-8.8K-SG02LP1 IP65

The Sunsynk Hybrid Parity Inverter is a highly efficient power management tool that allows the user to hit those 'parity' targets by managing power flow from multiple sources such as solar, wind turbines, main electrical grids, and generator, and then effectively storing and releasing electric power as the utilities require. It also carries a weatherproofing rating of IP65 and is fitted with two MPPT ports. Its convenient LCD display offers the user a configurable and accessible button operation, and once the Wi-Fi dongle has been attached, the user can monitor and adjust the inverter's functions remotely to make the most of installed power generation and storage.

The 8.8kW inverter is ideal when we need a bit more power, especially for systems that have totally off-grid or where you need a powerful UPS. It has a 50% surge power and the main advantage of these super inverters is that it can reverse and charge the batteries with very high power when required. In addition, since Sunsynk Hybrid Inverters use IGBT, they are much more reliable against surges and back EMF



Features:

- Overload / temperature / short circuit protection.
- Supports Wi-Fi monitoring.
- 3-Stage MPPT charging for optimal battery performance.
- Timing adjustable for convenient and efficient operation.
- On-grid, off-grid or uninterrupted power supply (UPS).
- Fan Cooling – IP65 protection.
- 5-year warranty.

Model	SUNSYNK-8.8K-SG01LP1
Battery Input Data	
Battery Type	Lead-acid or Lithium-ion
Battery Voltage Range	40~60V
Max. Charging Current	190A
Max. Discharging Current	190A
Charging Curve	3 Stages/Equalisation
External Temperature Sensor	Optional
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS
PV String Input Data	
Max. DC Input Power	10400W
PV Input Voltage	370V (100V~500V)
MPPT Range	125~425V
Full Load DC Voltage Range	240~425V
Start-up Voltage	150V
PV Input Current	22A+22A
No. of MPPT Trackers	2
No. of Strings Per MPPT Tracker	2+2
AC Output Data	
Rated AC Output and UPS Power	8000W
Max. AC Power	8800W
Peak Power (off-grid)	2 times of rated power, 10 S
AC Output Rated Current	33.4A/35A
Max AC Output Current	38A/40A
Max Continuous AC Passthrough	90A
Output Frequency and Voltage	50/60Hz; 120/240Vac (split phase), 208Vac (2/3), 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%
MPPT Efficiency	96.50%
Euro Efficiency	99.90%
Protection	
PV Arc Fault Detection	Integrated (Except European Type)
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
Certifications and Standards	
Grid Regulation	UL1741, IEEE1547, RULE21, VDE0126, 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	-25~60°C, >45°C Derating
Cooling	Fan
Noise	<30db
Communication with BMS	RS485; CAN
Weight	32kg
Size (Length x Width x Height)	670 x 420 x 233 mm
Protection Degree	IP65
Installation Style	Wall-mounted

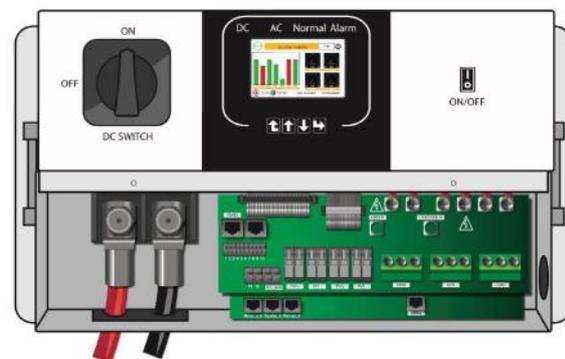
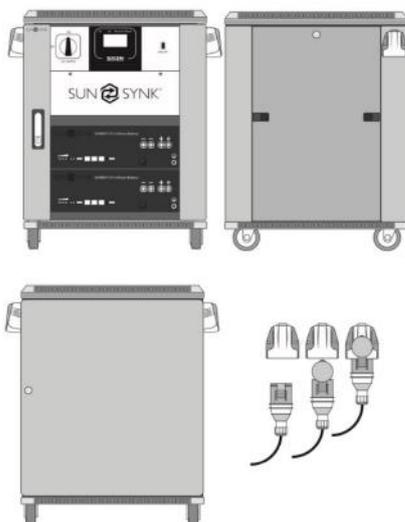
STORAGE INVERTERS

5.5kW / 7.6kW On-Grid Parity Inverters with Storage

SUNSYNK-6K-SG02LP1

SUNSYNK-7.6K-SG02LP1

The rack mounted inverter, 5.5kW and 7.6kW, are perfect for use where space is of a premium. It can be stacked up with batteries for several applications, for example, telecommunications systems and office UPS. In addition, similarly to our other hybrids, it can be connected to several input types, such as PV, AC grid, batteries, generator, microinverter, and wind turbines.



Model	SUNSYNK-6K- SG02LP1	SUNSYNK-7.6K-SG02LP1
Battery Input Data		
Battery Type	Lead-acid or Lithium-ion	
Battery Voltage Range	40~60V	
Max. Charging Current	135A	190A
Max. Discharging Current	135A	190A
Charging Curve	3 Stages/Equalisation	
External Temperature Sensor	Optional	
Charging Strategy for Li-Ion Battery	Self-Adaptation to BMS	
PV String Input Data		
Max. DC Input Power	7800W	9880W
PV Input Voltage	370V (100V~500V)	
MPPT Range	125~425V	
Start-up Voltage	150V	
PV Input Current	18A+9A	22A+22A
No. of MPPT Trackers	2	
No. of Strings Per MPPT Tracker	2+1	2+2
AC Output Data		
Rated AC Output and UPS Power	6000W	7600W
Max. AC Power	6600W	8360W
Peak Power (off-grid)	2 times of rated power, 10 S	
AC Output Rated Current	25A	31.7A/33A
Max AC Output Current	27.5A	34.9A/36.3A
Max Continuous AC Passthrough	40A	50A
Output Frequency and Voltage	50/60Hz; 120/240Vac(split phase), 208Vac(2/3), 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%	
MPPT Efficiency	97.00%	
Euro Efficiency	99.90%	
Protection		
PV Arc Fault Detection	Integrated (Except European Type)	
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	
Certifications and Standards		
Grid Regulation	UL1741, IEEE1547, RULE21, VDE0126, 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	-25~60°C, >45°C Derating	
Cooling	Fan	
Noise	<30	
Communication with BMS	RS485; CAN	
Warranty	5 years	

3-PHASE STORAGE INVERTERS

8kW / 10kW / 12kW On-Grid Parity Inverters with Storage

SUNSYNK-8K-3P-SG02LP1

SUNSYNK-10K-3P-SG02LP1

SUNSYNK-12K-3P-SG02LP1

The Sunsynk Three-Phase On-Grid Parity Inverters are highly efficient power management tools for three-phase grid applications. These inverters allow the user to control power flow from multiple sources such as solar, main electrical grids, and generator, and effectively storing and delivering electric power to the grid.

These amazing three-phase inverters have a unique feature. They can operate and balance the load, which means you can have 20% connected to one phase, 20% to another, and 60% to the third phase, and it still gives perfect phase rotation. No other inverter in their class can offer this amazing feature.



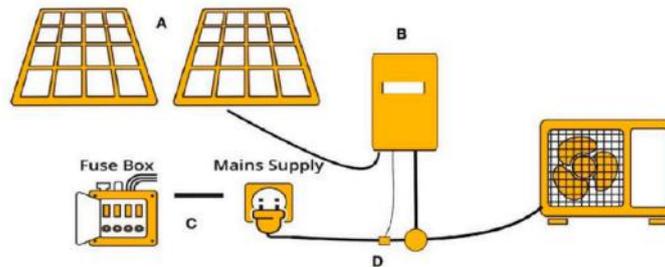
Features:

- 48V low-voltage battery.
- Isolation transformer design.
- 6 time periods for battery charging/discharging.
- Maximum charging/discharging current of 250A.
- Frequency droop control.
- Up to 16 inverters in parallel.
- DC and AC couple to retrofit existing solar system.
- Support storing energy from diesel generator.
- Interactive Display.

Model	SUN-8K-SG01LP3	SUN-10K-SG01LP3	SUN-12K-SG01LP3
Battery Input Data			
Battery Type	Lead-acid or Lithium-ion		
Battery Voltage Range	40~60V		
Max. Charging Current	190A	210A	240A
Max. Discharging Current	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	9880W	13000W	15000W
PV Input Voltage	450V (140V~1000V)		
MPPT Range	140V~800V		
Start-up Voltage	160V		
PV Input Current	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	8000W	10000W	12000W
Max. AC Power	8800W	11000W	13200W
Peak Power (off-grid)	2 times of rated power, 10 S		
AC Output Rated Current	11.6A	14.5A	17.4A
Max AC Output Current	12.8A	16A	19.1A
Max Continuous AC Passthrough	60A	60A	60A
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	97.6%		
MPPT Efficiency	97.0%		
Euro Efficiency	99.9%		
Protection			
PV Arc Fault Detection	Integrated (Except European Type)		
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, VDE0126, AS4777, NRS2017, G98,G99, IEC61683, IEC62116, IEC61727		
Safety Regulation	IEC2109-1, IEC62109-2		
EMC	EN61000-6-1, EN61000-6-3, FCC 15 Class B		
General Data			
Operating Temperature Range	-25~60°C, >45°C Derating		
Cooling	Fan		
Noise	<30dB		
Communication with BMS	RS485; CAN		
Weight	45kg		
Size (Length x Width x Height)	673 x 462 x 265mm		
Warranty	5 years		

SINGLE-PHASE INVERTERS

SUN-1.5 / 2 / 3 / 3.6 / 5 / 6 / 7.5 / 8 / 10K-G



Sunsynk® have produced inverters specifically designed to handle solar systems that power heaters and water pumps fitted to swimming pools, greenhouses and other power-hungry applications. But, they can also be utilized to provide power for homes and businesses.

Some of these models are perfect for heating your hot water on sunny days and, if there is low sunshine, it will automatically pull power from the mains grid. The CT coil built into these inverters will control when power is drawn from the grid or from the solar array. A Wi-Fi connection allows the user to remotely monitor and control this inverter and power connections are IP65 rated.



Model	SUN-1.5K-G	SUN-2K-G	SUN-3K-G
Input			
Max. DC Input Power	1.95kW	2.6kW	3.6kW
Max. DC Input Voltage	550V		
Start-up DC Input Voltage	80V		
MPPT Operating Range	70~550V		
Max. DC Input Current	12.5A		
Number of MPPT / Strings per MPPT	1 / 1		
Output			
Rated Output Power	1.5kW	2kW	3kW
Max. Active Power	1.65kW	2.2kW	3.3kW
Rated AC Grid Voltage	230V		
AC Grid Voltage Range	160~300V		
Rated Grid Frequency	50/60Hz (Optional)		
Operating Phase	Single-Phase		
Rated AC Grid Output Current	6.5	8.7A	13.1A
Max. AC Output Current	7.2	9.6A	14A
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection	<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		
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 (W x H x D)	330 x 310 x 115mm		
Weight	6kg		
Internal Consumption	<1W (Night)		
Running Temperature	-25°C~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<25dB		
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		

Model	SUN-3.6K-G	SUN-5K-G	SUN-6K-G
Input			
Max. DC Input Power	4.68kW	6.5kW	6.6kW
Max. DC Input Voltage	550V		
Start-up DC Input Voltage	80V		
MPPT Operating Range	70~550V		
Max. DC Input Current	12.5A + 12.5A		
Number of MPPT / Strings per MPPT	2 / 1		
Output			
Rated Output Power	3.6kW	5kW	6kW
Max. Active Power	4kW	5.5kW	6.6kW
Rated AC Grid Voltage	230V		
AC Grid Voltage Range	180~300V		
Rated Grid Frequency	50/60Hz (Optional)		
Operating Phase	Single-Phase		
Rated AC Grid Output Current	15.7	21.7A	26A
Max. AC Output Current	17.4	23.9A	28.7A
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection	<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		
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 (W x H x D)	330 x 310 x 172mm		
Weight	11kg		
Internal Consumption	<1W (Night)		
Running Temperature	-25°C~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<25dB		
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		

Model	SUN-7.5K-G	SUN-8K-G	SUN-10K-G
Input			
Max. DC Input Power	9.75kW	10.4kW	13kW
Max. DC Input Voltage	550V		
Start-up DC Input Voltage	120V		
MPPT Operating Range	100~550V		
Max. DC Input Current	12.5A + 25A	12.5A + 25A	25A + 25A
Number of MPPT / Strings per MPPT	2 / 1	2 / 1 + 2	2 / 2 + 2
Output			
Rated Output Power	7.5kW	8kW	10kW
Max. Active Power	8.25kW	8.8kW	11kW
Rated AC Grid Voltage	230V		
AC Grid Voltage Range	180~300V		
Rated Grid Frequency	50/60Hz (Optional)		
Operating Phase	Single-Phase		
Rated AC Grid Output Current	32.6	34.8A	43.5A
Max. AC Output Current	35.9	38.3A	47.8A
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection	<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		
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 (W x H x D)	330 x 310 x 198.5mm		
Weight	11kg		
Internal Consumption	<1W (Night)		
Running Temperature	-25°C~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<25dB		
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		

3-PHASE STRING INVERTERS

The Sunsynk three-phase inverters are the perfect solution for grid-tied applications, ranging from medium to high power. These rugged machines have excellent harmonics, high efficiency, wide output voltage range, and are approved for use in many countries.

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

These lower power models are ideal for most small commercial and domestic applications. They have high efficiency, great harmonics, wide output voltage range, and all this with a user-friendly display.



2 MPP trackers, Max. efficiency up to 98.3%



Wide output voltage range



Zero export application, VSG application



Ani-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						
Max. DC Input Power	5.2kW	6.5kW	7.8kW	9.1kW	10.4kW	13kW
Max. DC Input Voltage	1000V					
Start-up DC Input Voltage	140V					
MPPT Operating Range	120~850V					
Max. DC Input Current	12.5A + 12.5A					
Number of MPPT / Strings per MPPT	2 / 1					
Output						
Rated Output Power	4kW	5kW	6kW	7kW	8kW	10kW
Max. Active Power	4.4kW	5.5kW	6.6kW	7.7kW	8.8kW	11kW
Rated AC Grid Voltage	380/400V					
AC Grid Voltage Range	277~460V					
Rated Grid Frequency	50/60Hz (Optional)					
Operating Phase	Three-Phase					
Rated AC Grid Output Current	5.8A	7.2A	8.7A	10.1A	11.6A	14.5A
Max. AC Output Current	6.3A	8A	9.6A	11.1A	12.7A	16A
Output Power Factor	0.8 leading to 0.8 lagging					
Grid Current THD	<2%					
DC Injection	<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					
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 (W x H x D)	330 × 430 × 177 mm					
Weight	15kg					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25°C~65°C					
Ingress Protection	IP65					
Noise Emission (Typical)	<25dB					
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/Wi-Fi/LAN					

3-PHASE STRING INVERTERS

SUN-12 / 15 K-G03

The 12 / 15kW 3-Phase String Inverters are the big brothers of the smaller units, and they are perfect for most small commercial and large domestic applications.

These machines are safe and reliable and can reach 98.5% efficiency with a high power factor.

They also have a user-friendly LCD display plus the ability via Wi-Fi to be monitored and managed remotely by smartphone or PC.



2 MPP trackers, Max. efficiency up to 98.5%



Wide output voltage range



Zero export application, VSG application



Ani-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-12K-G	SUN-15K-G
Input		
Max. DC Input Power	15.6kW	18kW
Max. DC Input Voltage	1000V	
Start-up DC Input Voltage	250V	
MPPT Operating Range	200~800V	
Max. DC Input Current	11A + 22A	
Number of MPPT / Strings per MPPT	2 / 1 + 2	
Output		
Rated Output Power	12kW	15kW
Max. Active Power	13.2kW	16.5kW
Rated AC Grid Voltage	380/400V	
AC Grid Voltage Range	277~460V	
Rated Grid Frequency	50/60Hz (Optional)	
Operating Phase	Three-Phase	
Rated AC Grid Output Current	17.4A	21.8A
Max. AC Output Current	19.14A	23.9A
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<2%	
DC Injection	<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	
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 (W x H x D)	330 × 430 × 193.5 mm	
Weight	17kg	
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25°C~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<45dB	
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/Wi-Fi/LAN	

3-PHASE STRING INVERTERS

SUN-18 / 20 / 25 K-G02

The 18 / 20 / 25kW models are very useful for larger commercial applications that require a compact design.

These models feature intelligent cooling, high efficiency, remote monitoring, and also support VSG function, which is helpful to poor grid areas.



2 MPP trackers, Max. efficiency up to 98.6%



Wide output voltage range



Zero export application, VSG application



Ani-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-18K-G02	SUN-20K-G02	SUN-25K-G02
Input			
Max. DC Input Power	21.6kW	26kW	32.5kW
Max. DC Input Voltage	1000V		
Start-up DC Input Voltage	250V		
MPPT Operating Range	200~800V		
Max. DC Input Current	22A + 22A	25A + 25A	30A + 30A
Number of MPPT / Strings per MPPT	2 / 2 + 2	2 / 2	2 / 3
Output			
Rated Output Power	18W	20kW	25kW
Max. Active Power	19.8kW	22kW	27.5kW
Rated AC Grid Voltage	380/400V		
AC Grid Voltage Range	277~460V		
Rated Grid Frequency	50/60Hz (Optional)		
Operating Phase	Three-Phase		
Rated AC Grid Output Current	26.1A	29A	36.2A
Max. AC Output Current	28.71A	31.9A	39.9A
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection	<0.5%		
Grid Frequency Range	47~52 or 57~62 (optional)		
Efficiency			
Max. Efficiency	98.60%		
Euro Efficiency	97.80%		
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		
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 (W x H x D)	400 × 520 × 240.5 mm		
Weight	28kg		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25°C~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<45dB		
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/Wi-Fi/LAN		

3-PHASE STRING INVERTERS

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

These are the largest inverters in their class (30kW - 50kW Three Phase) yet remain stylish with high efficiency plus many features such as smart cooling, multiple MPPT inputs, remote monitoring and control.



4 MPP trackers, Max. efficiency up to 98.7%



Wide output voltage range



Zero export application, VSG application



Ani-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						
Max. DC Input Power	39kW	42.9kW	45.5kW	52kW	55kW	65kW
Max. DC Input Voltage	1000V					
Start-up DC Input Voltage	250V					
MPPT Operating Range	200~850V					
Max. DC Input Current	40A + 40A	40A + 40A + 40A	40A + 40A + 40A	40A + 40A + 40A	40A + 40A + 40A	40A + 40A + 40A + 40A
Number of MPPT / Strings per MPPT	2 / 3	3 / 3	3 / 3	3 / 3	3 / 3	4 / 3
Output						
Rated Output Power	30kW	33kW	35kW	40kW	45kW	50kW
Max. Active Power	33kW	36kW	38.5kW	44kW	49.5kW	55kW
Rated AC Grid Voltage	380/400V					
AC Grid Voltage Range	277~460V					
Rated Grid Frequency	50/60Hz (Optional)					
Operating Phase	Three-Phase					
Rated AC Grid Output Current	43.5A	48A	50.7A	58A	65.2A	72.4A
Max. AC Output Current	47.85A	52.8A	55.8A	63.8A	71.7A	79.64A
Output Power Factor	0.8 leading to 0.8 lagging					
Grid Current THD	<2%					
DC Injection	<0.5%					
Grid Frequency Range	47~52 or 57~62 (optional)					
Efficiency						
Max. Efficiency	98.70%					
Euro Efficiency	98.00%					
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					
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 (W x H x D)	647.5 × 537 × 303.5 mm					
Weight	44.5kg					
Topology	Transformerless					
Internal Consumption	<1W (Night)					
Running Temperature	-25°C~65°C					
Ingress Protection	IP65					
Noise Emission (Typical)	<45dB					
Cooling Concept	Smart Cooling					
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/Wi-Fi/LAN					

3-PHASE STRING INVERTERS

High Power String Inverters

SUN-60 / 70 / 75 / 80 K-G02

These are large style commercial string inverters to be used with solar farms and large solar arrays.

Reaching 98.7% of efficiency, these rugged machines are the perfect solution for three-phase grid-tied applications.

Some features of these models are: user-friendly display, AC/DC surge protection, remote monitoring (via Wi-Fi), VSG function, intelligent cooling, and wide output voltage range.



4 MPP trackers, Max. efficiency up to 98.7%



Wide output voltage range



Zero export application, VSG application



Ani-PID function (Optional)



String intelligent monitoring (optional)



Type II DC/AC SPD

Model	SUN-60K-G02	SUN-70K-G02	SUN-75K-G02	SUN-80K-G02
Input				
Max. DC Input Power	78kW	91kW	97.5kW	104kW
Max. DC Input Voltage	1000V			
Start-up DC Input Voltage	250V			
MPPT Operating Range	200~850V			
Max. DC Input Current	40A + 40A + 40A + 40A			
Number of MPPT / Strings per MPPT	4 / 3	4 / 4	4 / 4	4 / 4
Output				
Rated Output Power	60kW	70kW	75kW	80kW
Max. Active Power	66kW	77kW	82.5kW	88kW
Rated AC Grid Voltage	380/400V			
AC Grid Voltage Range	277~460V			
Rated Grid Frequency	50/60Hz (Optional)			
Operating Phase	Three-Phase			
Rated AC Grid Output Current	87.8A	101.5A	108.7A	115.9A
Max. AC Output Current	95.7A	111.6A	119.6A	127.5A
Output Power Factor	0.8 leading to 0.8 lagging			
Grid Current THD	<2%			
DC Injection	<0.5%			
Grid Frequency Range	47~52 or 57~62 (optional)			
Efficiency				
Max. Efficiency	98.70%			
Euro Efficiency	98.30%			
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			
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 (W x H x D)	700 × 575 × 297 mm			
Weight	60kg			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25°C~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<45dB			
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/Wi-Fi/LAN			

3-PHASE STRING INVERTERS

High-Power String Inverters

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

These are the largest inverters that we currently produce, reaching 100 kW. Only 10 of these inverters are needed for a Megawatt solar farm. All this with an ultra-compact design, cool operation. It is an amazing investment for your system.



6 MPP trackers, Max. efficiency up to 98.7%



Wide output voltage range



Zero export application, VSG application



Ani-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
Input				
Max. DC Input Power	105kW	112.5kW	120kW	150kW
Max. DC Input Voltage	1000V			
Start-up DC Input Voltage	250V			
MPPT Operating Range	200~850V			
Max. DC Input Current	40A + 40A + 40A + 40A	40A + 40A + 40A + 40A	40A + 40A + 40A + 40A	40A + 40A + 40A + 40A + 40A + 40A
Number of MPPT / Strings per MPPT	4 / 4	4 / 4	4 / 4	6 / 4
Output				
Rated Output Power	70kW	75kW	80kW	100kW
Max. Active Power	77kW	82.5kW	88kW	110kW
Rated AC Grid Voltage	380/400V			
AC Grid Voltage Range	277~460V			
Rated Grid Frequency	50/60Hz (Optional)			
Operating Phase	Three-Phase			
Rated AC Grid Output Current	101.5A	108.7A	115.9A	144.9A
Max. AC Output Current	111.6A	119.6A	127.5A	497.4A
Output Power Factor	>0.99			
Grid Current THD	<2%			
DC Injection	<0.5%			
Grid Frequency Range	47~52 or 57~62 (optional)			
Efficiency				
Max. Efficiency	98.70%			
Euro Efficiency	98.30%			
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			
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 (W x H x D)	838 × 577 × 323 mm			
Weight	73.7kg			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25°C~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<55dB			
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/Wi-Fi/LAN			

3-PHASE STRING INVERTERS (LV)

The Sunsynk low-voltage three-phase inverters are the perfect solution for grid-tied applications involving split phase, ranging from medium to high power. These rugged machines have excellent harmonics, high efficiency, wide output voltage range, and are approved for use in many countries.

SUN-6 / 8 K-G03-LV

These lower power models are ideal for most small commercial and domestic applications. They have high efficiency, great harmonics, wide output voltage range, and all this with a user-friendly display.



2 MPP trackers, Max. efficiency up to 98.5%



Wide output voltage range



Zero export application, VSG application



Ani-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-6K-G03-LV	SUN-8K-G03-LV
Input		
Max. DC Input Power	7.8kW	10.4kW
Max. DC Input Voltage	800V	
Start-up DC Input Voltage	250V	
MPPT Operating Range	200~700V	
Max. DC Input Current	11A + 22A	
Number of MPPT / Strings per MPPT	2 / 1 + 2	
Output		
Rated Output Power	6W	8kW
Max. Active Power	6.6kW	8.8kW
Rated AC Grid Voltage	127/220V	
AC Grid Voltage Range	176~242V	
Rated Grid Frequency	50/60Hz (Optional)	
Operating Phase	Three-Phase	
Rated AC Grid Output Current	15.7A	21A
Max. AC Output Current	17.3A	23.1A
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<2%	
DC Injection	<0.5%	
Grid Frequency Range	47~52 or 57~62 (optional)	
Efficiency		
Max. Efficiency	98.50%	
Euro Efficiency	97.50%	
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	
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 (W x H x D)	330 × 430 × 193.5 mm	
Weight	17kg	
Topology	Transformerless	
Internal Consumption	<1W (Night)	
Running Temperature	-25°C~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<45dB	
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/Wi-Fi/LAN	

3-PHASE STRING INVERTERS (LV)

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

The 10 / 12 / 15kW are the big brothers of the smaller units, and they are perfect for most small commercial and large domestic applications.

These safe and reliable machines reach 98.6% of efficiency with a high power factor. They also have a user-friendly LCD display and can be monitored and managed remotely by smartphone or PC.



2 MPP trackers, Max. efficiency up to 98.6%



Wide output voltage range



Zero export application, VSG application



Ani-PID function (Optional)



String intelligent monitoring (optional)

Model	SUN-10K-G03-LV	SUN-12K-G03-LV	SUN-15K-G03-LV
Input			
Max. DC Input Power	13kW	15.6kW	19.5kW
Max. DC Input Voltage	800V		
Start-up DC Input Voltage	250V		
MPPT Operating Range	200~700V		
Max. DC Input Current	25A + 25A	25A + 25A	30A + 30A
Number of MPPT / Strings per MPPT	2 / 2 + 2	2 / 2	2 / 3
Output			
Rated Output Power	10kW	12kW	15kW
Max. Active Power	11kW	13.2kW	16.5W
Rated AC Grid Voltage	127/220V		
AC Grid Voltage Range	176~242V		
Rated Grid Frequency	50/60Hz (Optional)		
Operating Phase	Three-Phase		
Rated AC Grid Output Current	26.25A	31.5A	39.4A
Max. AC Output Current	28.87A	34.64A	43.31A
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection	<0.5%		
Grid Frequency Range	47~52 or 57~62 (optional)		
Efficiency			
Max. Efficiency	98.60%		
Euro Efficiency	97.80%		
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		
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 (W x H x D)	400 × 520 × 240.5 mm		
Weight	28kg		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25°C~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<45dB		
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/Wi-Fi/LAN		

3-PHASE STRING INVERTERS (LV)

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

The 20 / 25 / 35kW models are designed for larger commercial applications that would benefit from an inverter with a compact design.

These models feature intelligent cooling, high efficiency, remote monitoring, and support VSG function, which is useful in those areas that have an unreliable grid power supply.



4 MPP trackers, Max. efficiency up to 98.7%



Wide output voltage range



Zero export application, VSG application



Ani-PID function (Optional)



String intelligent monitoring (optional)



Type II DC/AC SPD

Model	SUN-20K-G02-LV	SUN-25K-G02-LV	SUN-30K-G02-LV	SUN-35K-G02-LV
Input				
Max. DC Input Power	26kW	32.5kW	39kW	45.5kW
Max. DC Input Voltage	800V			
Start-up DC Input Voltage	250V			
MPPT Operating Range	200~700V			
Max. DC Input Current	40A + 40A	40A + 40A + 40A	40A + 40A + 40A + 40A	40A + 40A + 40A + 40A
Number of MPPT / Strings per MPPT	2 / 3	3 / 3	4 / 3	4 / 3
Output				
Rated Output Power	20kW	25kW	30kW	35kW
Max. Active Power	22kW	27.5kW	33kW	38.5kW
Rated AC Grid Voltage	127/220V			
AC Grid Voltage Range	176~242V			
Rated Grid Frequency	60Hz			
Operating Phase	Three-Phase			
Rated AC Grid Output Current	52.5A	65.6A	78.7A	91.9A
Max. AC Output Current	57.8A	72.2A	86.6A	101.1A
Output Power Factor	0.8 leading to 0.8 lagging			
Grid Current THD	<2%			
DC Injection	<0.5%			
Grid Frequency Range	57~62			
Efficiency				
Max. Efficiency	98.70%			
Euro Efficiency	98.00%			
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			
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 (W x H x D)	647.5 × 537 × 303 mm			
Weight	44.5kg			
Topology	Transformerless			
Internal Consumption	<1W (Night)			
Running Temperature	-25°C~65°C			
Ingress Protection	IP65			
Noise Emission (Typical)	<45dB			
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/Wi-Fi/LAN			

3-PHASE STRING INVERTERS (LV)

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

These are large style commercial string inverters to be used with solar farms and large solar arrays.

Reaching 98.7% of efficiency, these rugged machines are the perfect solution for three-phase grid-tied applications.

Some features of these models are: user-friendly display, AC/DC surge protection, remote monitoring, VSG function, intelligent cooling, and wide output voltage range.



4 MPP trackers, Max. efficiency up to 98.7%



Wide output voltage range



Zero export application, VSG application



Ani-PID function (Optional)



String intelligent monitoring (optional)



Type II DC/AC SPD

Model	SUN-40K-G-LV	SUN-45K-G-LV	SUN-50K-G-LV
Input			
Max. DC Input Power	52kW	58.5kW	65kW
Max. DC Input Voltage	800V		
Start-up DC Input Voltage	250V		
MPPT Operating Range	200~700V		
Max. DC Input Current	40A + 40A + 40A + 40A		
Number of MPPT / Strings per MPPT	4 / 4		
Output			
Rated Output Power	40kW	45kW	50kW
Max. Active Power	44kW	49.5kW	55W
Rated AC Grid Voltage	127/220V		
AC Grid Voltage Range	176~242V		
Rated Grid Frequency	60Hz		
Operating Phase	Three-Phase		
Rated AC Grid Output Current	104.9A	118.1A	131.2A
Max. AC Output Current	115.5A	129.9A	144.4A
Output Power Factor	0.8 leading to 0.8 lagging		
Grid Current THD	<2%		
DC Injection	<0.5%		
Grid Frequency Range	57~62		
Efficiency			
Max. Efficiency	98.70%		
Euro Efficiency	98.30%		
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		
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 (W x H x D)	700 × 575 × 297 mm		
Weight	60kg		
Topology	Transformerless		
Internal Consumption	<1W (Night)		
Running Temperature	-25°C~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<55dB		
Cooling Concept	Smart Cooling		
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/Wi-Fi/LAN		

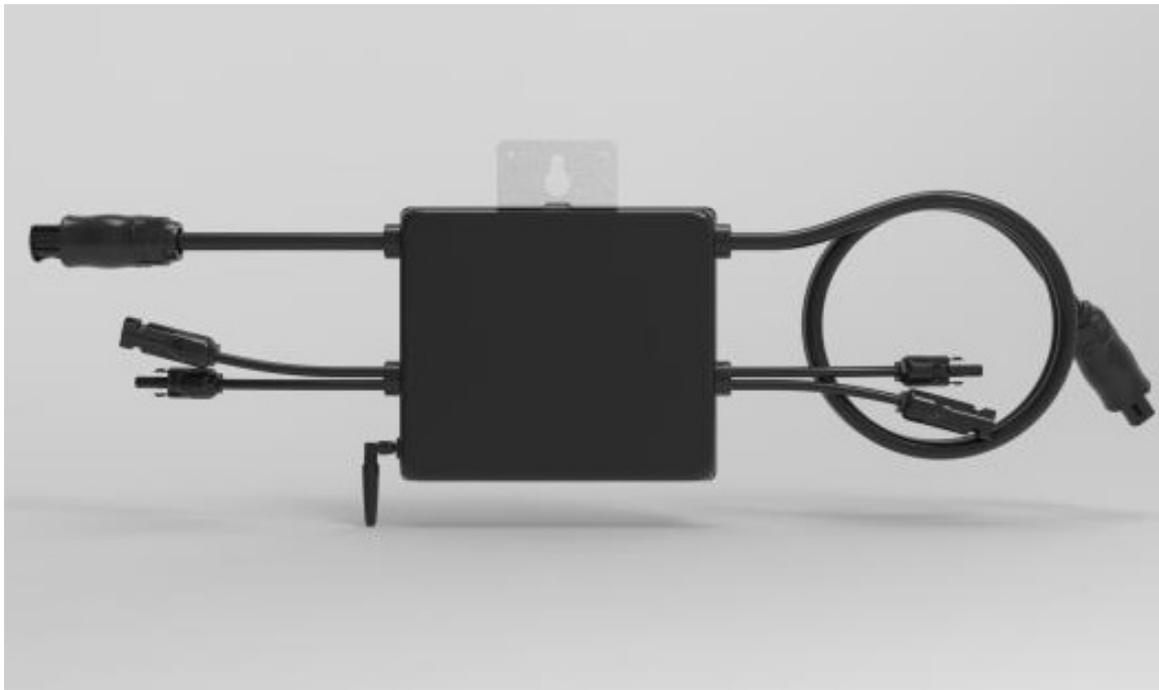
MICRO INVERTERS

These amazing solar micro inverters are 'mini machines' fit behind individual solar panels where they function the same as string inverters, converting DC to AC power. Sunsynk® micro inverters are built-in with Wi-Fi, PLC, and Zigbee communication for remote monitoring and control.

Simply assemble and mount your panel with its own micro-inverter and connect it to the mains grid. In addition, microinverters can be used in conjunction with the Sunsynk Storage Inverter.

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

These models are ideal for low power applications. They have 2 MPPT trackers, monitoring, rapid shutdown function, and low power consumption at night.



Rapid shutdown function



PLC, Zigbee or Wi-fi Communication



IP67 protection degree,
10 years warranty



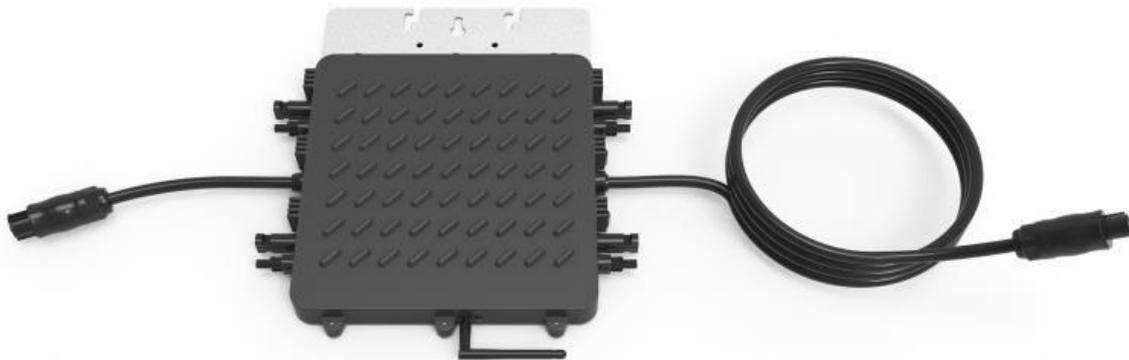
2 MPP trackers, module level monitoring

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
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 x 2			
Output Data (AC)				
Output Power Peak	600W	600W	600W	500W
Max. Output Power	600W	600W	600W	500W
Max. Output Current	2.17A	2.884A/2.5A	2.7A	4A
Nominal Voltage / Range	184 ~ 265V	208V / 183 ~ 229V 240 / 211 ~ 264V	176 ~ 242V	a.c.95 ~ 155V @127Vac
Nominal Frequency / Range	50 / 47.5 ~ 51.5Hz	60 / 59.3 ~ 60.5Hz	60 / 59.3 ~ 60.5Hz	60 / 59.3 ~ 60.5Hz
Extended Frequency / Range	50 / 45 ~ 55Hz	60 / 55 ~ 65Hz	60 / 55 ~ 65Hz	60 / 55 ~ 65Hz
Power Factor	> 0.99			
Max. Units per Branch	11	8 / 10	9	6
Efficiency				
CEC Weighted Efficiency	95%			
Inverter Efficiency Peak	96.5%			
Static MPPT Efficiency	99%			
Night Time Power Consumption	50mW			
Mechanical Data				
Ambient Temperature Range	-40°C ~ 65°C			
Size (W/H/D)	185 x 161 x 29mm (without mounting bracket and cable)			
Weight	2.4kg			
Cooling	Natural Cooling			
Enclosure Environmental Rating	IP67			
Features				
Compatibility	Compatible with 60~72 cell PV modules			
Communication	Power line / Wi-Fi / Zigbee			
Compliance	EN50549 / VDE0126 / VDE4105 / IEC62109 / CE / INMETRO			
Warranty	10 years			

MICRO INVERTERS

SUN1200G-230-EU / SUN1300G2-US-208/240 / SUN1300G

These higher power microinverters are ideal for applications with more panels. Besides rapid shutdown, high efficiency, and low power consumption at night, they also have 4 MPPT inputs, which allows the connection of more modules. Also, they come with PLC, Zigbee, and Wi-Fi communication, requiring no external communication device.



Rapid shutdown function



PLC, Zigbee or Wi-fi Communication



IP67 protection degree,
10 years warranty



4 MPP trackers, module level monitoring

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 x 4		
Output Data (AC)			
Output Power Peak	1300W		
Max. Output Power	1300W		
Max. Output Current	4.34A	6.25A / 5.416A	5.91A
Nominal Voltage / Range	184 ~ 265V	208V / 183 ~ 229V 240 / 211 ~ 264V	176 ~ 242V
Nominal Frequency / Range	50 / 47.5 ~ 51.5Hz	60 / 59.3 ~ 60.5Hz	60 / 59.3 ~ 60.5Hz
Extended Frequency / Range	50 / 45 ~ 55Hz	60 / 55 ~ 65Hz	60 / 55 ~ 65Hz
Power Factor	> 0.99		
Max. Units per Branch	5	4	4
Efficiency			
CEC Weighted Efficiency	95%		
Inverter Efficiency Peak	96.5%		
Static MPPT Efficiency	99%		
Night Time Power Consumption	50mW		
Mechanical Data			
Ambient Temperature Range	-40°C ~ 65°C		
Size (W/H/D)	298 x 287 x 36mm (without mounting bracket and cable)		
Weight	6.3kg		
Cooling	Natural Cooling		
Enclosure Environmental Rating	IP67		
Features			
Compatibility	Compatible with 60~72 cell PV modules		
Communication	Power line / Wi-Fi / Zigbee		
Compliance	EN50549 / VDE0126 / VDE4105 / IEC62109 / CE / INMETRO		
Warranty	10 years		

MICRO INVERTERS

SUN300G3-EU-230 / SUN500G3-EU-230

These models are ideal for very low power applications, featuring only 1 MPPT tracker. This high-efficiency device has rapid shutdown function, monitoring, and low power consumption at night. In addition, it comes with PLC, Zigbee, and Wi-Fi communication.



Rapid shutdown function



PLC, Zigbee or Wi-fi Communication



IP67 protection degree,
10 years warranty



1 MPP tracker, module level monitoring

Model	SUN300G3-EU-230	SUN500G3-EU-230
Input Data (DC)		
Recommended Input Power (STC)	210 ~ 400W (1 pieces)	210 ~ 600W (1 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 x 1	12.5A x 1
Output Data (AC)		
Output Power Peak	300W	500W
Max. Output Power	330W	550W
Max. 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	
Max. Units per Branch	17	10
Efficiency		
CEC Weighted Efficiency	95%	
Inverter Efficiency Peak	96.5%	
Static MPPT Efficiency	99%	
Night Time Power Consumption	50mW	
Mechanical Data		
Ambient Temperature Range	-40°C ~ 65°C	
Size (W/H/D)	212 x 229 x 40mm (without mounting bracket and cable)	
Weight	3.5kg	
Cooling	Natural Cooling	
Enclosure Environmental Rating	IP67	
Features		
Compatibility	Compatible with 60~72 cell PV modules	
Communication	Power line / Wi-Fi / Zigbee	
Compliance	EN50549 / VDE0126 / VDE4105 / IEC62109 / CE / INMETRO	
Warranty	10 years	

MICRO INVERTERS

SUN600G3-EU-230 / SUN800G3-EU-230 / SUN1000G3-EU-230

Here we have some models ranging from 600W to 1000W, providing a lot of flexibility for your application. Besides rapid shutdown, high efficiency, and low power consumption at night, they also have 2 MPPT inputs. They come with PLC, Zigbee, and Wi-Fi communication, requiring no external communication device.



Rapid shutdown function



PLC, Zigbee or Wi-fi Communication



IP67 protection degree,
10 years warranty



2 MPP trackers, module level monitoring

Model	SUN600G3- EU-230	SUN800G3- EU-230	SUN1000G3- EU-230
Input Data (DC)			
Recommended Input Power (STC)	210 ~ 400W (2 pieces)	210 ~ 600W (2 pieces)	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	10.5A x 2	12.5A x 2	12.5A x 2
Output Data (AC)			
Output Power Peak	600W	800W	1000W
Max. Output Power	660W	880W	1100W
Max. 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		
Max. Units per Branch	8	6	5
Efficiency			
CEC Weighted Efficiency	95%		
Inverter Efficiency Peak	96.50%		
Static MPPT Efficiency	99%		
Night Time Power Consumption	50mW		
Mechanical Data			
Ambient Temperature Range	-40°C ~ 65°C		
Size (W/H/D)	212 x 229 x 40mm (without mounting bracket and cable)		
Weight	3.5kg		
Cooling	Natural Cooling		
Enclosure Environmental Rating	IP67		
Features			
Compatibility	Compatible with 60~72 cell PV modules		
Communication	Power line / Wi-Fi / Zigbee		
Compliance	EN50549 / VDE0126 / VDE4105 / IEC62109 / CE / INMETRO		
Warranty	10 years		

MICRO INVERTERS

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

Here we have others higher power microinverters, perfect for applications with more panels. They feature rapid shutdown, high efficiency, great power factor, and low power consumption at night. In addition, they have 4 MPPT trackers, which allows the connection of more modules. All this without any external communication device.



Rapid shutdown function



PLC, Zigbee or Wi-fi 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

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 x 4	12.5A x 4	12.5A x 4	12.5A x 4
Output Data (AC)				
Output Power Peak	1300W	1600W	1800W	2000W
Max. Output Power	1430W	1760W	1980W	2200W
Max. Output Current	6.2A	7.7A	8.6A	9.6A
Nominal Voltage / Range	230V / 180 ~ 265V			
Nominal Frequency / Range	50 / 60Hz			
Extended Frequency / Range	45 ~55Hz / 55~65Hz			
Power Factor	> 0.99			
Max. Units per Branch	4	4	3	3
Efficiency				
CEC Weighted Efficiency	95%			
Inverter Efficiency Peak	96.5%			
Static MPPT Efficiency	99%			
Night Time Power Consumption	50mW			
Mechanical Data				
Ambient Temperature Range	-40°C ~ 65°C			
Size (W/H/D)	267 x 300 x 42.5mm (without mounting bracket and cable)			
Weight	5.2kg			
Cooling	Natural Cooling			
Enclosure Environmental Rating	IP67			
Features				
Compatibility	Compatible with 60~72 cell PV modules			
Communication	Power line / Wi-Fi / Zigbee			
Compliance	EN50549 / VDE0126 / VDE4105 / IEC62109 / CE / INMETRO			
Warranty	10 years			

COMPONENTS

MECD

The MECD communications gateway collects and delivers modular performance data in real time to allow the user to get comprehensive updates and manage the solar system effectively. With a built-in shutdown application, the MECD can immediately control a micro-inverter shutdown when the dry contact is activated.



- Built-in Zigbee, PLC, and Wi-Fi module.
- Suitable for single-phase and three-phase applications.
- Enables remote monitoring and management.



- OLED display and buttons, allowing easy operation.
- Compact design and lightweight.



- Supports quick shutdown remotely.
- Robust design with 3-year warranty.



Model	MECD
Communication Interface	
Communication Method	Zigbee, PLC
Max. Number of Inverters Connected	32
Communication to Router	Wi-Fi
Wi-Fi 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)	133.6 x 132 x 35.5mm
Weight	0.3kg
Operation Temperature Range	-20°C ~ +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 Part 15 Class B / Class C
Warranty	3 years

COMPONENTS

SOLARMAN Stick Logger

Log in at

GSM: GPRS_IPK

Wi-Fi: SSWWIFIPK

The Stick Logger supports GPRS, WiFi, 4G, Ethernet and other communication models. Its bluetooth functions enable its debugging configuration to collect data from the inverters covering power generation and operating status. It is matched with the SOLARMAN professional platform to enable remote PV system monitoring and to allow the user to optimise power management which will result in lower cost and higher efficiency.



Features:

- External light indicator.
- Logging status at a glance.
- Plug-and-play.
- Select power source within the inverter.
- No external power needed.
- Easy to install.
- Independent from inverter thereby providing increased protection to operating system, IP65 waterproofing, resistant to bad weather, stable operation.

	LSG-3	LSG-4	LSW-3	LS4G-3	LSE-3
Remote Communication Interference	GPRS	GPRS	Wi-Fi	4G	LAN
Working Frequency	GSM850 / EGSM900 / DCS1800 / PCS1900MHz	GSM850 / EGSM900 / DCS1800 / PCS1900MHz	2.142GHz ~ 2.484GHz	704MHz-960MHz 1710MHz-2690MHz	Adaptative Network; 10M / 100M
Positioning	/	GPS / Beidou < 15m	/	/	/
Antenna	External GPRS Stick Antenna	External GPRS Stick Antenna	External Wi-Fi Stick Antenna	External 4G Stick Antenna	/
Data Interface	RS485 / RS232 / TTL				
Working Voltage	4.7VDC ~ 15VDC				
Working Power	3W	3W	1.5W	5W	1W
SIM Card	Chip Card / MicroSIM	Chipcard / 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 + Instruction Set Remote Server	Local Serial Port	Web
Firmware Upgrade	Remote Upgrade				
Others	Real-Time Control, Data Resuming				

COMPONENTS

SUNSYNK Stick Logger

The Sunsynk® 4G+WiFi Stick Logger is a new generation industrial grade dual mode gateway that realises data collection and uploads data to cloud servers. This stick adopts a plug-in design, which is quick to install and easy to use. The Wi-Fi supports both 802.11 standards and WPA/ WPA2/WPA2 encryption mode. The 4G grading is universally supported in systems operating in China, Europe, Australia, North America and many other countries in the world. In addition, the the device supports remote firmware upgrade allowing developers to upgrade the product continuously after purchase.

The gateway adopts a double-data buffer design which improves the reliability of data transmission and receiving. In addition, the Stick Logger has ultra-violet protection (F1 level), flame retardant grade reaching UL94 V-0 and IP65 waterproofing.



Features:

- RS-232 transmission.
- Wi-Fi supports AP+STA dual mode.
- 4G compatible.
- Automatic switching between Wi-Fi and 4G.
- Online time synchronization.
- Supports Over-the-Air (OTA) programming via Gateway.
- Supports remote OTA for inverter.
- Supports smartphone APP setting.
- Supports remote parameters setting for inverter.
- Support data breakpoint resume.
- Operating temperature range: -2°C ~ +60°C.
- Flame retardant grade: UL94 V-0.

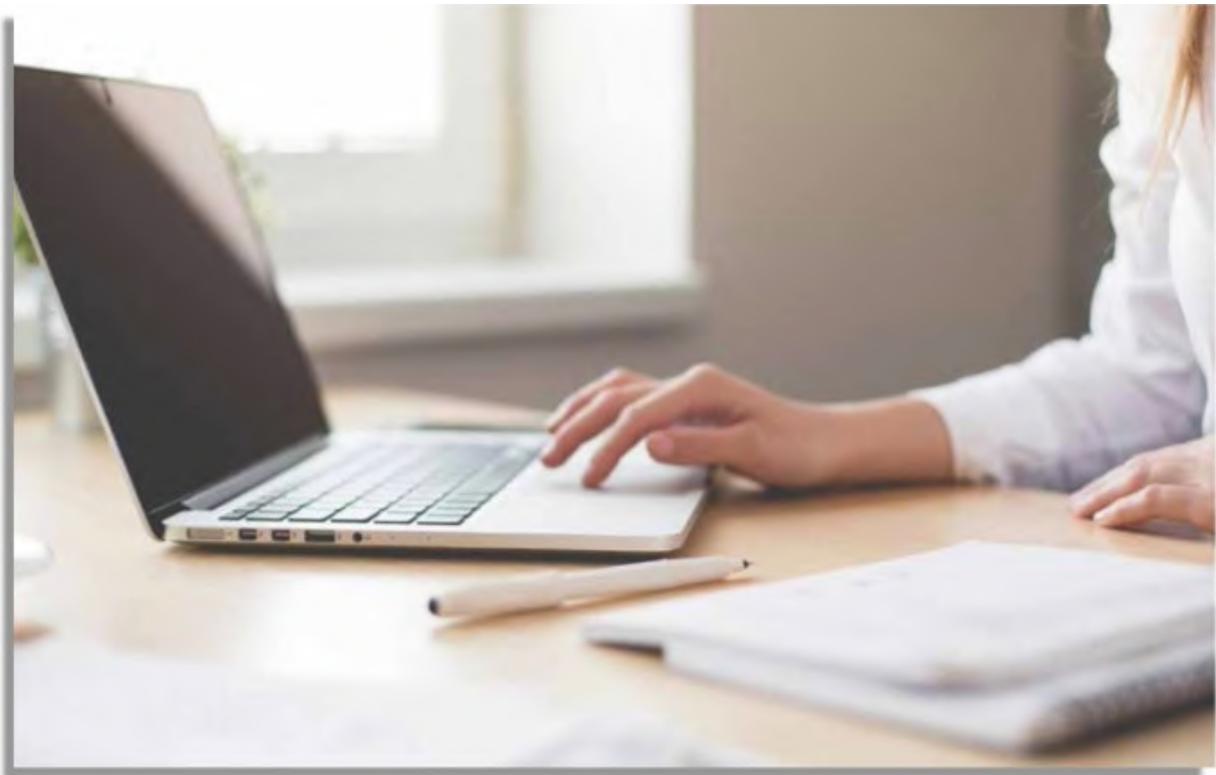
Electrical Parameters	
Power supply	DC 5V – 12V
Current consumption	Max. 1.8A; Avg. 220mA
Wi-Fi Parameters	
WLAN Standard	802.11 b/g/n
Security	WPA/WPA2/WPA2 /WPS
Work mode	Station/AP/Station + AP
Others	802.11n (2.4 GHz), up to 150Mbps
4G Parameters	
Frequency Band	<p>Europe:</p> <p>LTE FDD: B1/B3/B7/B8/B20/B28 WCDMA: B1/B8 GSM: B3/B8</p> <p>Australia:</p> <p>LTE FDD: B1/B2/B3/B4/B5/B7/B8/B28/B66 WCDMA: B1/B2/B5/B8 GSM: B2/B3/B5/B8</p> <p>North America:</p> <p>LTE FDD: B2/B4/B5/B12/B13/B25/B26 WCDMA: B2/B4/B5</p> <p>China Mainland:</p> <p>LTE FDD: B1/B3/B5/B8 LTE TDD: B34/B38/B39/B40/B41 GSM: B3/B8</p>
Internet Data	
Internet Data	Contains at least one year of internet data (Only version with internet data)
Recharging	Recharging via APP or Website
Communication with Inverter	
Interface	RS-232
Parameters	9600bps 8/N/1 (default)
Antenna	
Antenna	Built-in
LED Indication	
DEV	Communication with inverter indication
NET	Communication with cloud platform indication
Mechanical Parameters	
Size	118.0 x 75.0 x 29.0 mm (without package)
Weight	About 63g
Installation	Plug and Play
Environment	
Operating temperature range	-20°C ~ +6°C
Relative humidity (no condensation)	0% ~ 100%
Others	
SIM Card	Micro SIM Card
Degree of protection	IPX7 (After installed)
Flame retardant grade	UL94 V-0
UV protection rating	F1

Note: The Frequency band of 4G may not the same when in different area.

COMPONENTS

Smart PV Management Platform

Sunsynk residential monitoring solution takes great care to ensure that your PV system is in excellent operation throughout its entire life-cycle. This monitoring solution offers you detailed information about your power generating plant, including daily, monthly, yearly, and total energy through wireless communication with your router to the internet by a smart Wi-Fi plug. Users can easily access the monitoring page via the web or phone app.





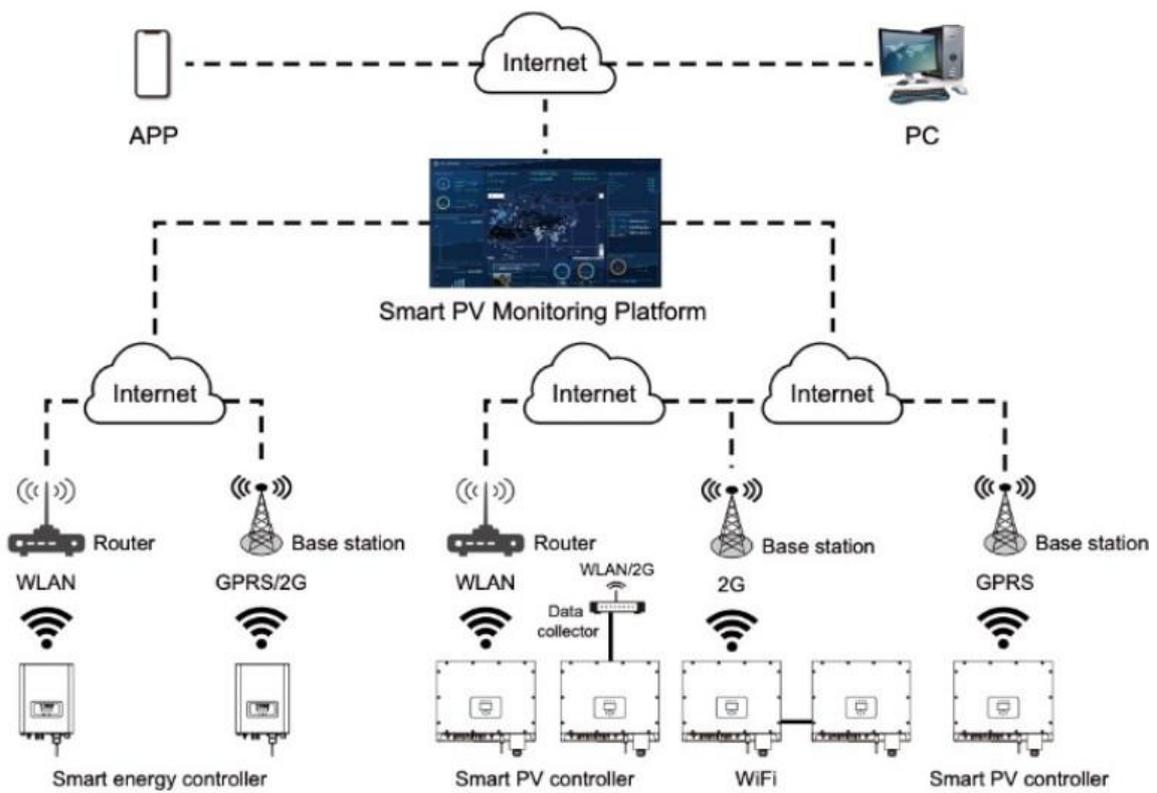
Efficient

- Open station supports one-click installation and registration;
- Capable of handling remote monitoring and of settings.



Safe

- Safe operation, traceable logs, etc;
- Supports full life-cycle data storage, ensuring data security and reliability.



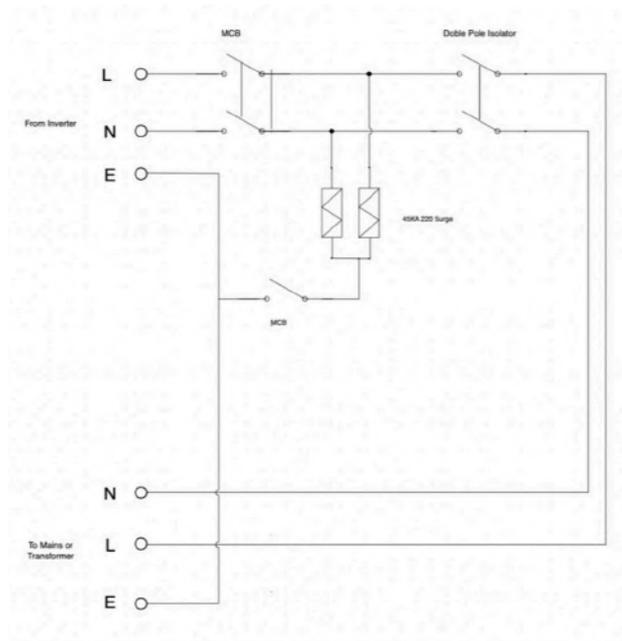
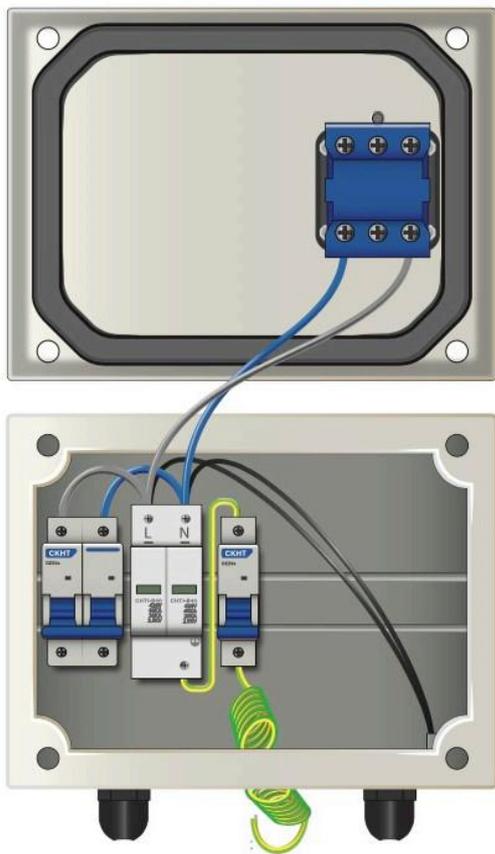
PROTECTION DEVICES

Mains Surge Protector

SS-SURGE-AC1

The SS-Surge-AC1 is an AC Isolator that provides protection against lightning and other unexpected power surges. It is a fully integrated component which includes circuit breakers, rotary isolator and earth bond. An essential piece of protection for your solar system that comes in a metal box rated at IP65





Components:

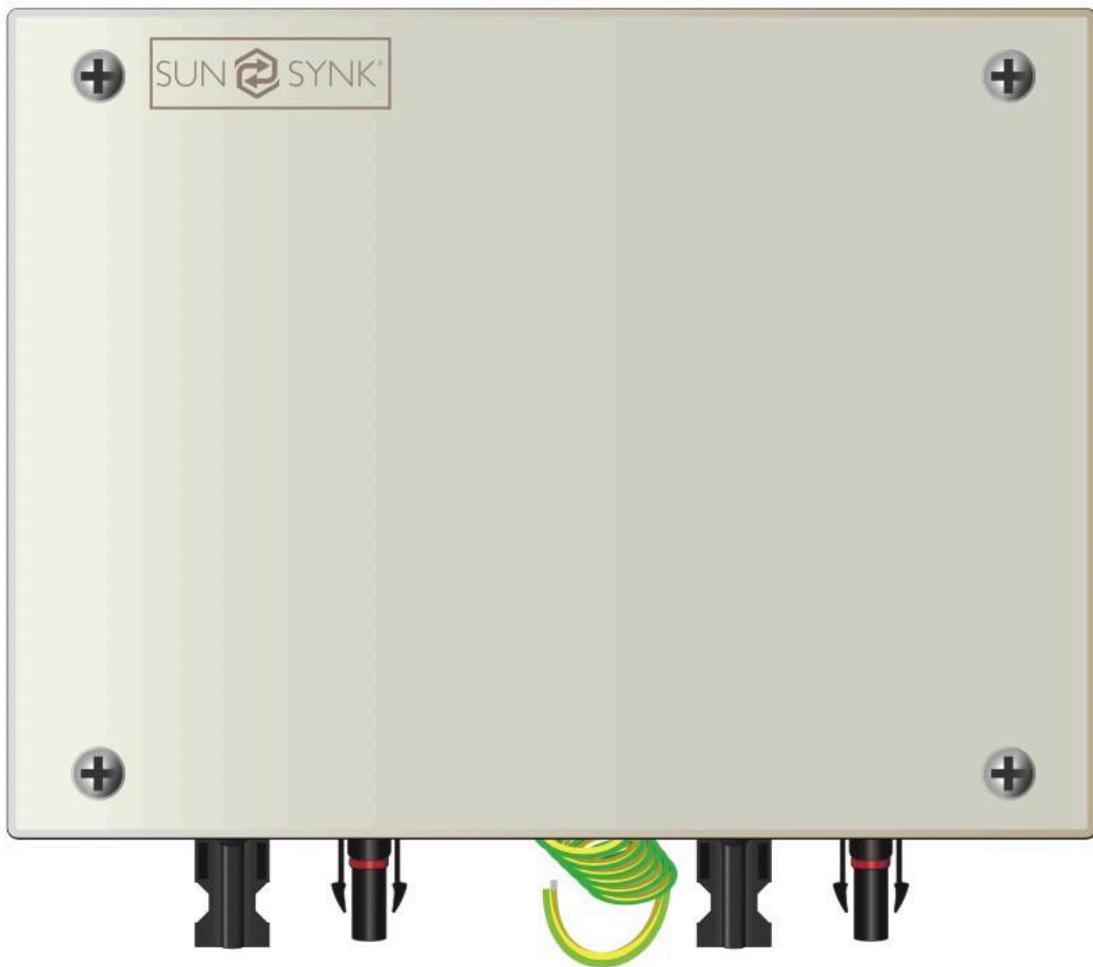
- 2 x NXB-63 Miniature circuit breaker Modular DIN Rail — Miniature Circuit Breaker
- 1 x CHINT MCB 1P / PHASE 10 AMPERE / 10A / 10 A 6KA SNI NXB-63 C10
- 1 x LW30 40 Amp Series Rotary Isolator
- 1 x Earth Bond
- 1 x IP65 Metal Box

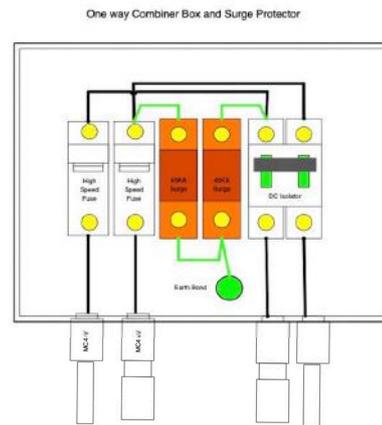
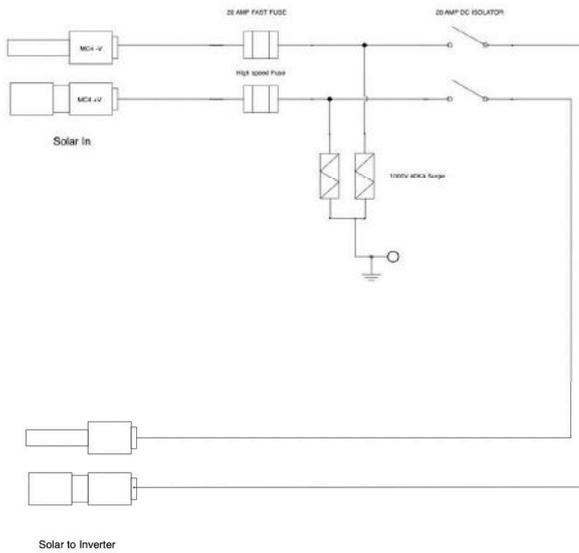
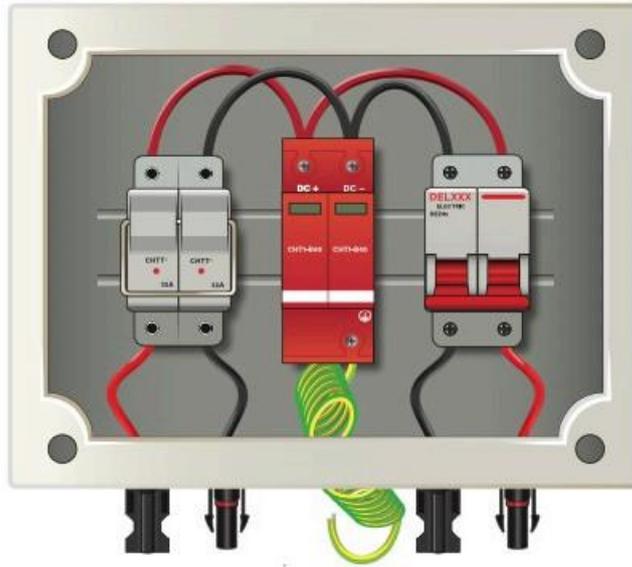
PROTECTION DEVICES

One-Way Combiner Box with Lightning and Surge Protector

SS-SURGE-DC-Comb1

The SS-Surge-DC-Comb1 is a DC Isolator that provides protection against lightning and other unexpected power surges. It is a fully integrated component which includes circuit breakers, isolator, fuses, MC4 connectors and earth bond. An essential piece of protection for your solar system that comes in a metal box rated at IP65.





Components:

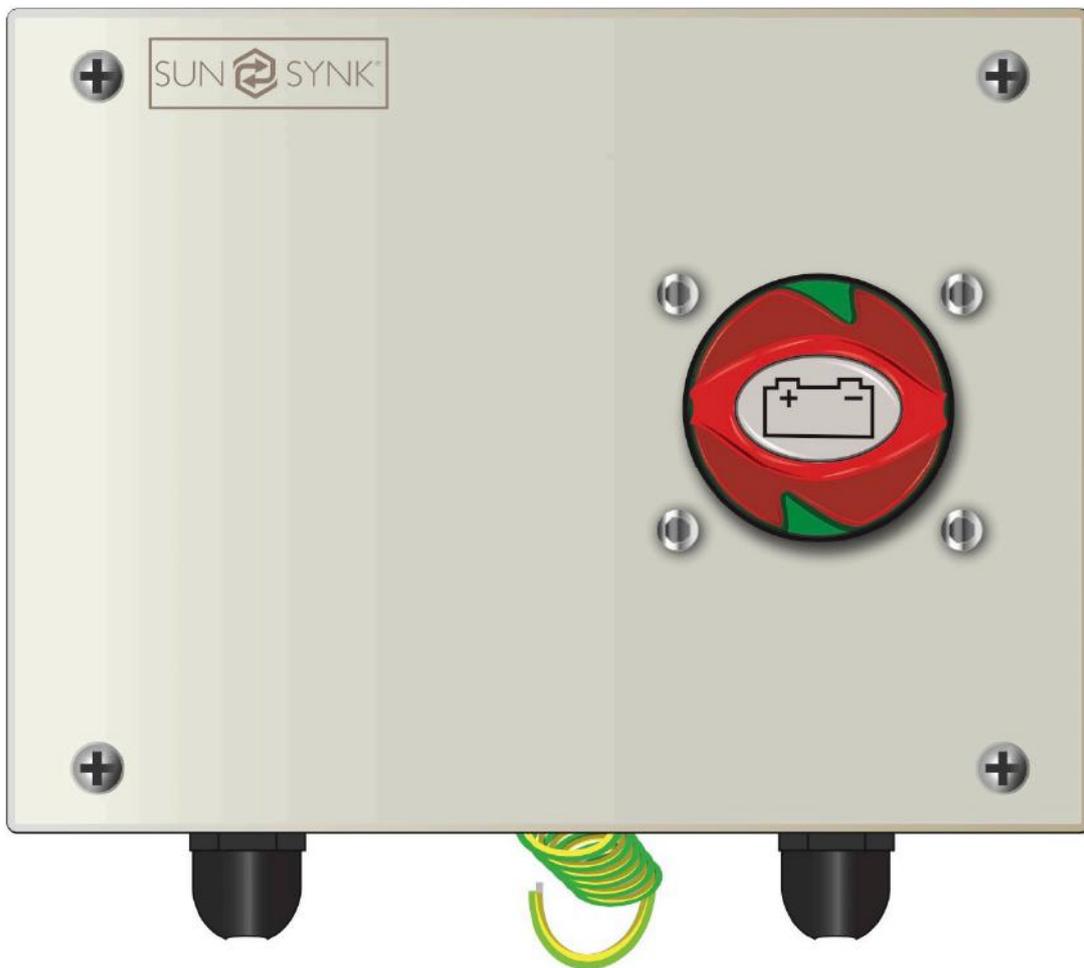
- 2 x CHT1-B40 kA 1000v Max 2kV Surge Protective Device (SPD)
- 2 x RT28N-32X Solar panel fuse
- 2 x 6. DZ47sZ 20Amp Isolator Switch with MCB
- 1 x Earth Bond
- 1 x IP65 Metal Box
- 4 x MC4 Connectors

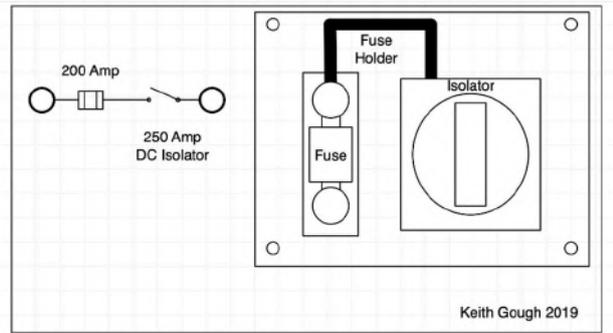
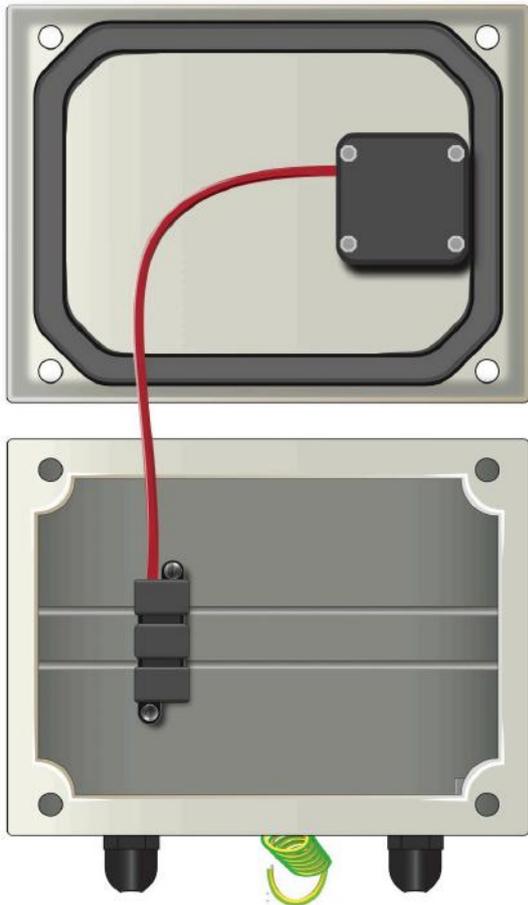
PROTECTION DEVICES

Battery Isolator

SS-BAT-ISO

Here we have a battery isolator with high current DC isolator and fuse. Everything you need to protect your batteries from surges. All fully wired inside an IP65 metal box!





Components:

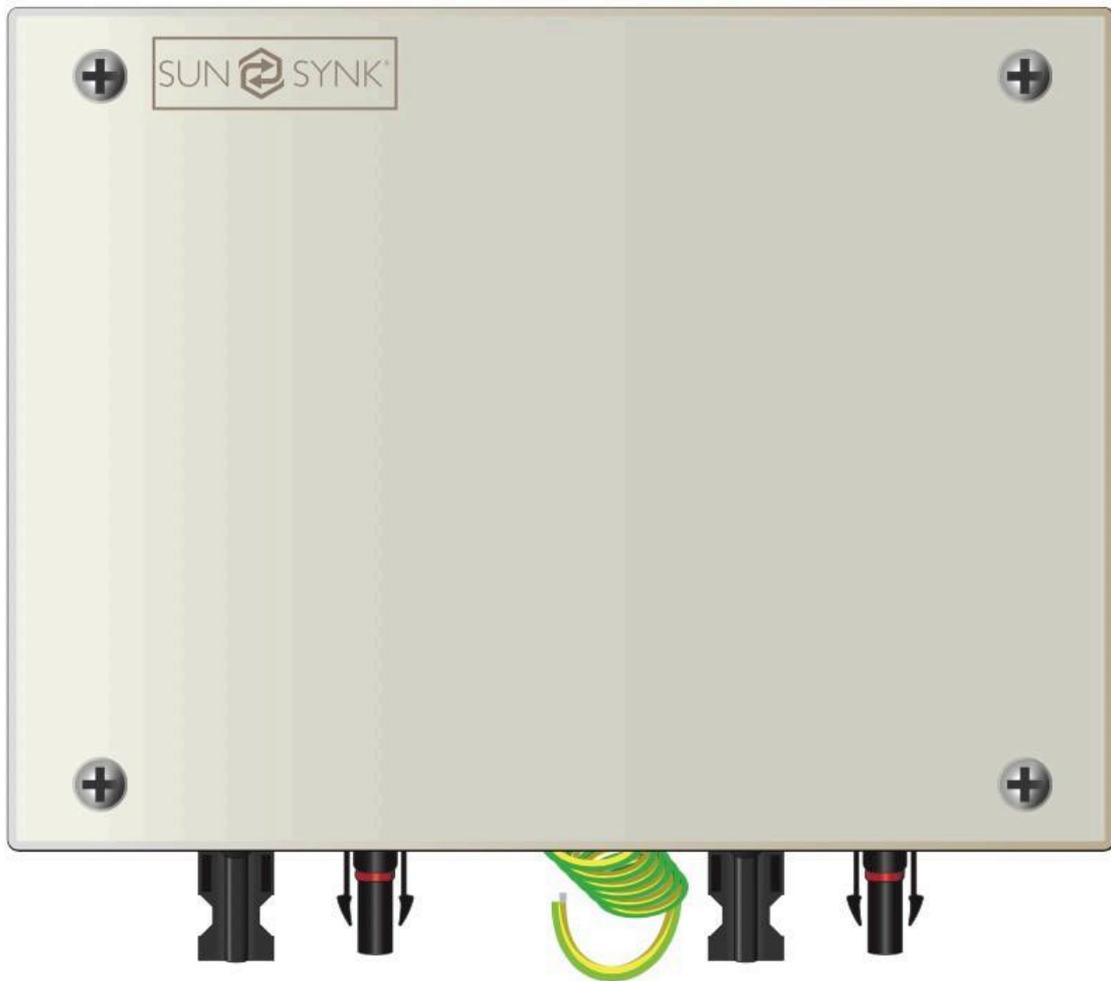
- 1 x 300A 60VDC battery isolate switch
- 1 x 200 Amp Marine Grade DC Fuse and Holder
- 1 x IP65 Metal Box

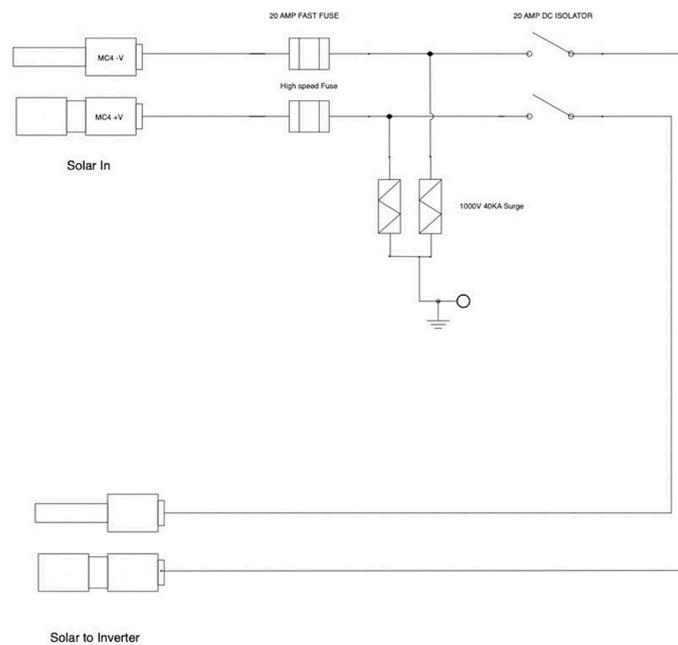
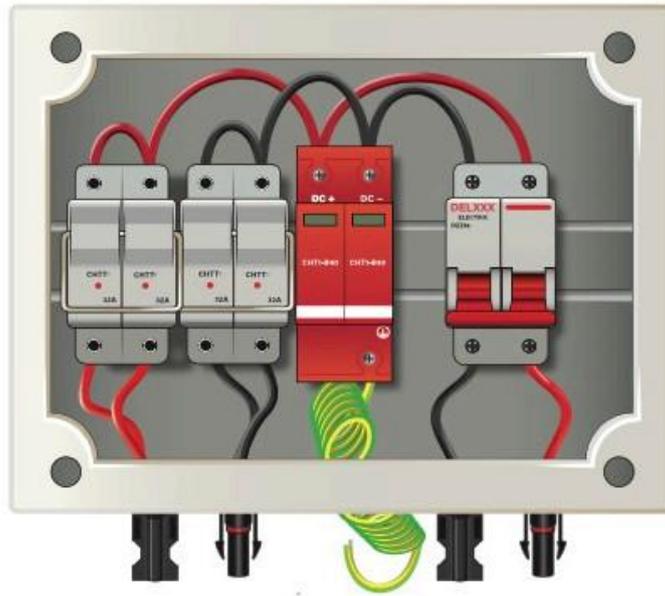
PROTECTION DEVICES

Two-Way Combiner Box with Lightning and Surge Protector

SS-SURGE-DC-Comb2

Here there is a two-way IP65 metal box that includes everything you need to protect your system. Fuses, circuit breakers, MC4 connectors, isolator, earth bond. All wired!





Components:

- 4 x CHT1-B40 kA 1000v Max 2kV Surge Protective Device (SPD)
- 4 x RT28N-32X Solar panel fuse
- 4 x 6. DZ47sZ 20Amp Isolator Switch with MCB
- 1 x Earth Bond
- 1 x IP 65 Metal Box
- 6 x MC4 Connectors

SOLAR AIR CONDITIONING

Solar Powered Hybrid Air Conditioning Units

SSACNB-09K

SSACNB-12K

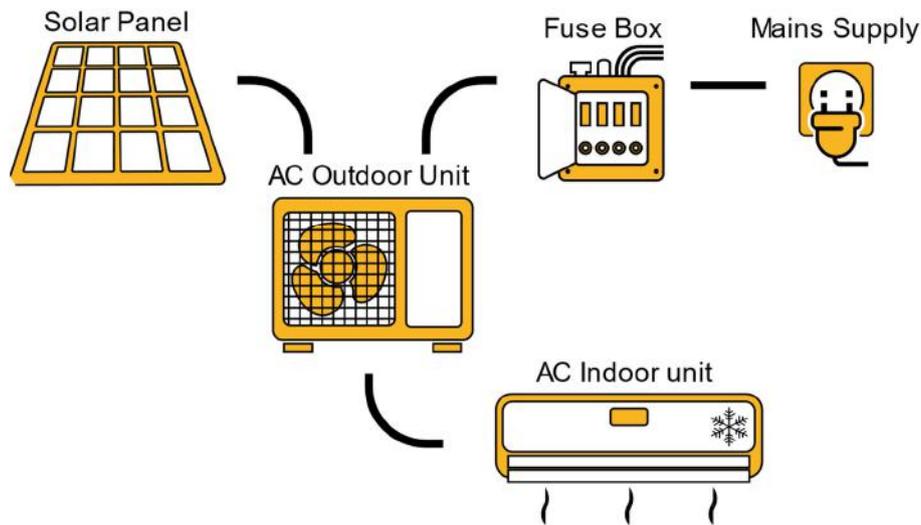
SSACNB-18K

SSACNB-24K

Sunsynk's new hybrid air conditioning units are complete units that do not require battery storage or inverters. All parts of a solar PV system are contained within the unit apart from the panels which have to be mounted separately. During the day, the solar array sends power to the air conditioner's built-in inverter to allow the air conditioner to provide free heating or cooling. At night, the unit automatically switches to the mains grid when electricity is at its cheapest!

The installation is the same as any normal air conditioner. It will only require three panels to run efficiently and at night the units programme will adjust the power consumption to mains grid.





	9000 BTU	12000 BTU	18000 BTU	24000 BTU
Model Number	SSACNB-09K	SSACNB-12K	SSACNB-18K	SSACNB-24K
Indoor Fan type	BLDC	BLDC	BLDC	BLDC
Indoor Fan Consumption	18W	18W	40W	40W
Indoor Fan Speed (Turbo/High/Mid/Low)	1200/1100/1000/850	1300/1200/1100/950	1050/950/900/800	1350/1250/1150/1000
Indoor Fan Air Flow m3/h	485/434/382/305	536/485/434/357	971/864/808/700	1250/1120/1000/850
Indoor Noise Level dB(A)	41.7/38.8/33.0/31.6	44.6/42.6/36.3/35.0	44.3/41.5/38.8/36.8	51/50/47/42
Indoor Evaporator Row	2	2	2	2
Indoor Pipe Diameter	Φ7	Φ7	Φ7	Φ7
Outdoor Fan type	BLDC	BLDC	BLDC	BLDC
Outdoor Fan Consumption	40W	40W	55W	75W
Outdoor Fan Speed r/min	850	880	880	850
Outdoor Condenser Row	1	1	1.5	2
Outdoor Pipe Diameter	Φ7	Φ7	Φ7	Φ7
Outdoor Fan Air Flow m3/h	1800	2000	2200	3320
Outdoor Noise level dB(A)	≤52	≤52	≤55	≤58
Pressure Mpa (Gas/Liquid)	4.3/1.1	4.3/1.1	4.3/1.1	4.3/1.1
Connecting Pipe size (Gas/Liquid) (Inch)	3/8 1/4	3/8 1/4	1/2 1/4	1/2 1/4
Connecting Pipe Max Length (m)	15	15	20	25
Connecting Pipe Max Height (m)	8	8	10	10

LITHIUM BATTERIES

CATL Battery L051100-A

5.12kWh / 51.2V / 100Ah (Connection cable included)

L051100-A

Sunsynk have produced a perfect storage solution. The module consists of Lithium-ion rechargeable batteries with 5.12kWh capacity rated at 51.2V 100Ah with built-in battery management system.

- **Long Life Span**

The battery can be expected to remain serviceable for more than 10 years and this takes into consideration that it is charged and discharged once a room temperature (25°C).

- **Stable**

Olivine Lithium-ion phosphate batteries provide excellent thermal stability and storage. The module also incorporates a self-monitoring function for the detection of any abnormalities in power storage.

- **Compact Design**

The height is nicely designed as per standard industrial rack size (3U).

- **High Scalability**

Multiple energy storage modules can be connected in parallel and the capacity customised according to the intended usage.



Power Lite Lithium Battery System L051100-A	
Cell Type	Lithium Ferro Phosphate (LifePO4 or LFP)
Nominal Operating Voltage	51.2V
Nominal Capacity	100Ah / 5.12kWh
Depth of Discharge (DoD)	100%
Usable Capacity	5.12kWh
Packing	1P16S
IP Rating	IP40
Minimum Operating Voltage	44.8V
Maximum Operating Voltage	57.6V
Standard Charging Current	50A
Max. Continuous Charging Current	50A
Standard Discharging Current	50A
Max. Continuous Discharging Current	100A (1C, 25°C ± 2°C)
Max. Pulse Discharging Current	200A (2C, 30S, 25°C ± 2°C SOC≥40%)
Standard Charging Method	0.5C CC to 57.6V, CV at 57.6V till current is 0.05C
Min. Operating Temperature (no derating)	Charging: 0°C / Discharging: -20°C
Max. Operating Temperature (no derating)	Charging: 50°C / Discharging: 55°C
Operating ROH	20% ~ 80%
Storage Temperature	-20 ~ 50°C
Self-discharging rate	≤5% (25°C, 50% SoC)
SoC @ end of product line	40%
Insulation Resistance	>100MΩ
Voltage Difference in each module	≤20mV
Inner Resistance of single Cell	0.34 ± 0.05mΩ (fresh cell 30 ~ 40% SoC)
Altitude	Below 2000m
Weight	48kg
Dimensions	440 x 530 x 132mm (not include connector, MSD and other parts)
Expected Life @ 25°C	Greater than 10 years if used as per warranty terms

LITHIUM BATTERIES

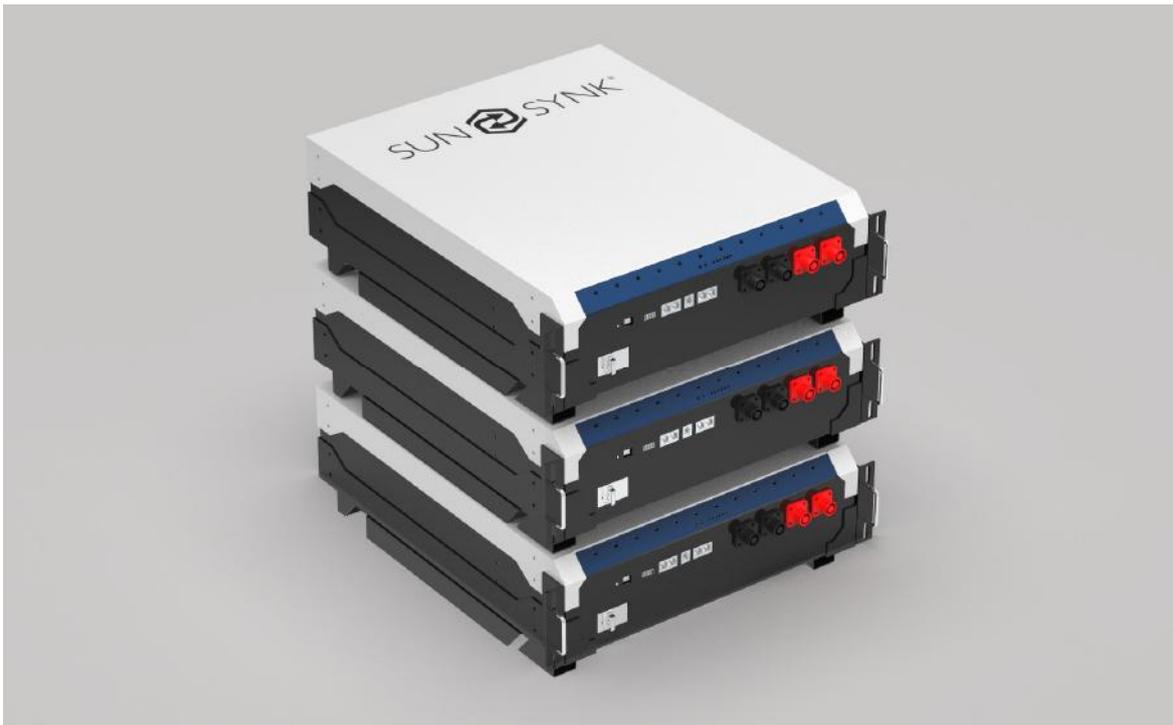
Power-Maker Battery

SSCLK3.1

SSCLK5.6

The Sunsynk Power-Maker Battery has a revolutionary design that allows it to be both wall or rack mounted. It does not require additional components as it comes complete with all accessories.

Featured on the front of the Power-Maker Battery is a blue strip which glows indicating that the component is working correctly. Included within the unit are cells produced by China's top cell manufacturers, ANC.



Parameter		SSCLK3.1	SSCLK5.63	Remark
Rated Capacity	Typical	62Ah	115Ah	Standard discharge (0.2C ₅ A) after the standard voltage
	Minimum	60Ah	110Ah	
Cell Voltage	Nominal Voltage	3.2V	3.2V	Mean Operation Voltage
Internal Impedance		≤0.65mΩ	≤0.65mΩ	Internal resistance measured at AC 1kHz after the battery has 50% charge. (This measurement requires new batteries and is conducted within one week of shipment with less than 5 cycles)
Dimension	Depth	24.5mm	24.5mm	Initial dimension.
	Width	140.5mm	140.5mm	
	Height	160.5mm	160.5mm	
Rapid charge based on cell voltages	Constant Current	110A	110A	Charge time: Approx. 1.5h@≥10°C
	Constant Voltage	3.65V	3.65V	
	Cut Off	0.01C ₅ A	0.01C ₅ A	
Standard discharge per cell	Constant Current	12A		0.2C
	Cut Off Voltage	5V		
Volumetric Specific Energy		295Wh/L		Approximately
Gravimetric Specific Energy		139Wh/kg		Approximately
Combination Method		110Ah	110Ah	
Factory Voltage per Battery Pack		51V (40%-60%)		Mean Operation Voltage
Cut Off Voltage per Battery Pack		42V		
Charging Voltage per Battery Pack		54.75V		
Internal Impedance per Battery Pack		≤40mΩ		Internal resistance measured at AC 1kHz after 50% charge. The measure must use the new batteries within one week after shipment and cycles less than 5 times.
Standard Charge	Constant Current	20A	20A	Charge Time: Approx. 6h
	Constant Voltage	See Above		
	Cut Off	0.02CA		
Maximum Continuous Charge Current		60A	110A	When 0°C>T ≥-10°C
Maximum Continuous Discharge Current		60A	110A	
Operation Temperature Range	Charge	0~45°C		60±25%R.H. Bare Cell
	Discharge	-20~55°C		
Storage Temperature Range		Less than 12 months: -10~45°C		60±25%R.H. at the shipment state
		Less than 3 months: -10~45°C		
		Less than 7 days: -10~45°C		
Dimensions		442 x 520 x 132mm		Case Included
Weight		28.5kg		

LITHIUM BATTERIES

Wall-Mount Component

L051100-AFix

These are wall brackets for L051100-A batteries. Now you can install your batteries on the wall if you prefer.



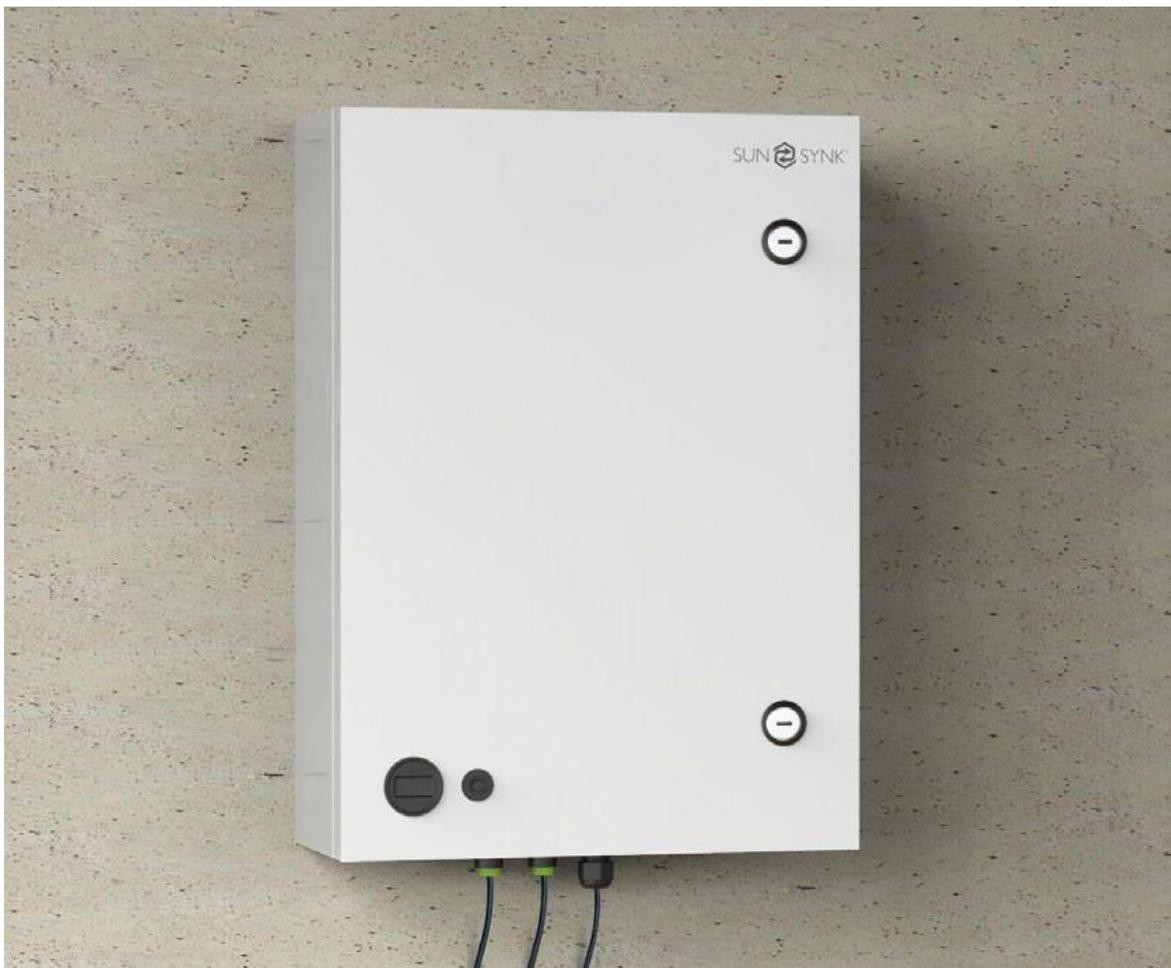
POWER BANKS

PB 300 XL

PB 1000

Everything you need in a single box. This is a unique storage device that is completely off-grid and contains all the constituent parts of a solar power system within a waterproof housing. The design is such that anyone using it would quickly understand its design and be capable of setting up a simple power system to provide AC power to utilities that fall within the parameters of 300W to 1000W.

The PB 300 XL and the PB 1000 can operate at any time of the day or be set to 'automatic mode' where it operates only at night or when power is required (UPS Mode).



Power Bank 300 XL

- 2 x 100W Solar panels (prewired);
- Power Bank 300 Main Unit;
- 300W Inverter with 230V output;
- 300W MPPT charge controller;
- Power Bank fixing kit;
- Solar panel fixing kit;
- 2 x 500Wh Lithium Battery packs;
- Cables / MC4 Connectors
- Digital voltage meter;
- User-reset overload fuse;

Power Bank 1000

- 4 x 125W Sunsynk® XH Solar Panels;
- Power bank 1000 Main Unit;
- 1KW Inverter with 230V output;
- 500W MPPT charge controller;
- Digital voltmeter;
- Auto reset and thermal fuse;
- Super quiet variable speed fan;
- 2000W Lithium Phosphate battery;
- 25metres of solar cables / MC4 Connectors;
- Solar panel fixing kit;
- Power bank fixing kit
- AC Charger (optional)

Model	PB 300 XL	PB 1000
Max PV Power	300W	500W
Inverter Size	300W	500W
Charger Type	MPPT	MPPT / AC
Max Surge power	400W	650W
Battery Size	1000Wh	2000Wh
Battery Type	Life Po4	Life PO4
BMS	Yes	Yes
Max PV Input	60V	75V
Power bank Size	46 x 33 x 13 cm	46 x 33 x 13 cm
IP Rating	45	45
Complete kit weight	37kg	48kg

POWER MAKER CABINETS

Power Maker Cabinets

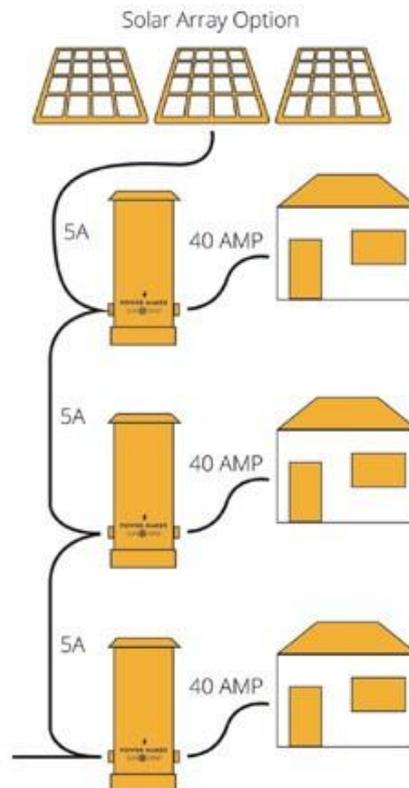
- 6 Station IP Rated Outdoor Unit
- 24 Station Outdoor Enclosure
- 6 Station Rack for Inverter and Battery

The Sunsynk Power cabinets can be used to transport professional stand-alone power systems in a modular format to help reduce weight.

Traditional central systems suffer huge power losses, so by using the Sunsynk power maker cabinets, you will massively reduce power losses and save a lot of money. They can be used as big offices UPS, supply power to food parks, caravan parks, and several other applications.



15 Amp Feed or Small Generator



SOLAR PUMP

Water Pump Driver with MPPT

SUN-PD-24

SUN-PD-48

SUN-PD-72

SUN-PD-96

The Sunsynk® Water Pump Driver (with MPPT) is designed for swimming pools, wells and other water supplies requiring the movement of water.

Features:

- The LED displays shows power, voltage, current, speed and working condition.
- Automatic stop/start function.
- Soft start - no impulse current to protect the pump motor.
- Frequency conversion function - the driver automatically runs with frequency conversion according to solar power, and users can also change the pump's speed manually.





PCB Model	Adaptable Pump	Maximum Input Power (KW)	Maximum Input Current (A)	Maximum Input Voltage (V)	MPPT Voltage Range (V)	Working Temperature (°C)
SUN-PD-24	Rated 24V Pump	0.48	20	48	18-36	-15-60
SUN-PD-48	Rated 48V Pump	0.75	15	96	24-72	-15-60
SUN-PD-72	Rated 72V Pump	1.1	15	150	50-108	-15-60
SUN-PD-96	Rated 96V Pump	1.3	15	180	60-144	-15-60

EV CHARGING

22kW Three-Phase EV Station

Sunsynk® focuses on the field of charging EVs and is committed to providing customers with high quality charging equipment and solutions.

SUN-22KW-EV

This is a high-powered 3-Phase EV station for commercial applications. It is a compact solution with remote control, advanced communications and excellent charging performance.

Features:

- Metal casing (IP65).
- 4.3-inch LCD colour display.
- OCPPv1.6 Interoperable communication protocol.
- Remote firmware update with reboot capable via the internet.
- Auto cable-lock release in the event of power outage.
- Multiple languages available.
- Mobile App payment support.
- Pedestal mounting optional.



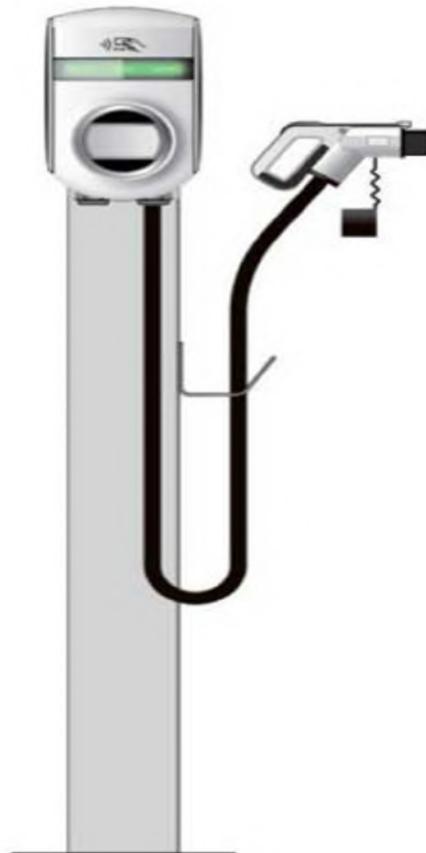
Model	SUN-22KW-EV
Housing material	1.5mm metal Shell
Dimension	370 x 232 x 145mm (H x W x D)
Installation method	Wall mounting, Pedestal mounting (optional)
Cable routing	Bottom/Rear inlet wiring,
Weight	N.W.: 8kg, Pedestal: 10kg
Charging standard	IEC 61851-1 and IEC 61851-22
Charging outlet	Type2 plug with 5M cable
Outlet number	1
Input	
Input voltage	380Vac +/-10%, 3-phase
Input frequency	50Hz/60Hz
Output	
Max output power	22kW @ 32A max
Measuring accuracy	Level 0.5
Output voltage range	380Vac +/-10%, 3-phase
Output current range	0 – 32A
RCCB	Type-A, sensitivity: 30mA
General	
Charging type	Mode 3
User Interface	RFID, 4.3" LCD display screen
AC output type	AC Type-2
Communication	WI-FI, Bluetooth, PWM, Ethernet, 4G (optional), OCPP 1.6
Remote control	Remote firmware update and system reboot via internet
Application place	Indoor/Outdoor
Working temperature	-30 ° C ~ +50 ° C
Working humidity	5% ~ 95% non-condensation
Altitude	<2000m
Protection grade	IP54
Cooling	Natural cooling
Safety standard	Compliant with CE, EN 61851-1-2001; EN 61851-21-2001; EN 61851-22-2001
Security design	Over/under voltage protection, overload protection, current leakage protection, grounding protection, over temp protection, lightning surge protection

EV CHARGING

7kW Single-Phase Home Used EV Station

SUN-7KW-EV1

The Electric Vehicle Charging Station developed by our company has advanced functions, stable performance, wide application range, robust design and easy-to-understand instructions. It is perfect for home-based applications.



	Item	Technology Index	Remarks
Electrical Parameters	Rated input voltage	AC230V ± 20%	Single phase
	Max. power	7KW	
	Rated working current	32A	6/10mm ² wires
	Input frequency	50Hz ± 1Hz	
	Rated output voltage	AC230V ± 20%	Single phase
	Rated output current	32A	6/10mm ² wires
	Standby power	<6W	
Environment Index	Application senses	Indoor/Outdoor	
	Working temperature	-30°C ~ +55°C	
	Working humidity	5% ~ 95% No condensation	
	Working elevation	<2000m	
	Protection grade	IP54	
	Cooling method	Natural cooling	
	MTBF	100,000 hours	
Shell Structure	Material	Plastic	
	Dimensions	211 x 345 x 122mm (L x W x D)	
	Installation methods	Wall-mounting / Standing pole	
	Net. weight	<4kg	
Optional	Activate method	1: Plug in and play 2: ON/OFF by swiping card (3pcs) 3: Offline payment via swiping card	Optional
	Output port	1: Type 2 socket 2: Type 2 gun with 5m cable 3: Type 1 gun with 5m cable	Optional
Security Design	Over/under voltage protection, Overload protection, Short-circuit protection, Current leakage protection, Grounding protection, Over/Under temperature protection, Lighting surge protection.		
Option Parts	Swapping card control, Ethernet, 3G, 4G communication OCCP1.6 (JSON)		Optional

EV CHARGING KITS

7kW Single-Phase Commercial EV Station

SUN-7KW-EV2

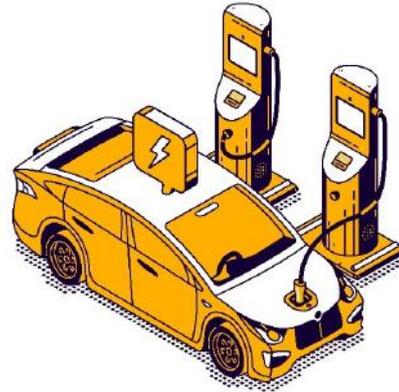
This product is A 7KW single-phase AC EV charger, mainly used for electric vehicle AC charging. It is composed of a charging body, wall hanging rear plate, floor standing pole (optional accessories), etc.

It features charging protection, card charging, scan code charging, mobile payment, network monitoring, and other functions. This product adopts industrial design, easy to install, and quick to deploy.



Appearance and structure	Product Name	Commercial 7KW EV Charging Station	
	Model No.	SUN-7KW-EV2	
	Shell Material	Plastic	
	Product Size	400 x 200 x 117 mm (L x W x H)	
	Installation Methods	Wall-Mounted	Floor Type
	Installation Accessories	Rear Plate	Floor Stand
	Wiring Method	From bottom / Back side	
	Gross Weight	5Kg	
	Cable Length	Default: 5m (refer to real product)	
	Display	4.3" LCD display screen	
Electrical Index	Input Voltage	230V	
	Input Frequency	50Hz	
	Max. Power	7KW	
	Output Voltage	230V	
	Output Current	32A	
Environment Index	Application	Indoor/Outdoor	
	Work Temperature	-30°C ~ 55°C	
	Work Humidity	5% ~95% No condensation	
	Work Altitude	<2000m	
	IP Rate	IP54	
	MTBF	100,000 hours	
	Special Protection	Anti-UV	
Protection Functions	Over/Under voltage protection, over current protection, short-circuit protection, ground protection, lightning protection, emergency stop protection, leakage protection.		
Functions	Ethernet/GPRS/4G/Wifi/Bluetooth communication, Remote control, Mobile payment, Mobile APP/Wechat scan code for payment, Swipe card for charging, LED indicate, LCD display (optional based on requirements)		

EV CHARGING KITS



8.8kW Single-Phase 40A / 10kWh EV Charger **SUN-7KW-EV2-KIT1 – Plug-in Hybrids or smaller EVs**

This is a small-scale EV charging kit with cabinet, batteries, an 8.8kW inverter, and a 7kW car charger unit. It is a perfect solution for small EVs.

8.8kW Single-Phase 40A / 20kWh EV Charger **SUN-7KW-EV2-KIT2 – Home Charging**

Similar to the kit above, this is also a small-scale EV charging kit with cabinet, an 8.8kW inverter, a 7kW car charger unit, and more batteries. This is a perfect solution for home used applications.

EV CHARGING KITS

8.8kW Single-Phase 40A / 40kWh EV Charger

SUN-7KW-EV2-KIT3 – Charging Big EVs

This is an awesome solution to charge big vehicles. With 40kWh capacity, this kit also includes, an 8.8kW inverter, a 7kW car charger unit, and several batteries

26kW Three-Phase 40A per phase / 40kWh EV Charger

SUN-22KW-EV-KIT1 – High-Speed Charging

26kW Three-Phase 40A per phase / 80kWh EV Charger

SUN-22KW-EV-KIT2 – High-Speed Charging

These 26kW kits are a perfect solution for high speed charging of EVs with a choice of either 40kWh or 80kWh capacity. A highly practical solution to charging EVs quickly and effectively.



SOLAR POOL / WATER PUMP / WATER HEATER AC HYBRID CONVERTER KITS

3kW Solar Power Converter + 1kW Solar Array

3kW SUN-3K-G-KIT 1 – Run your pool pump for free

This kit is a complete solution for you to run your pool pump for free by using solar energy. It includes a 1kW solar array, fixings, cables, protection devices, CT coil, and inverter.

3kW Solar Power Converter + 2kW Solar Array

3kW SUN-3K-G-KIT 2 – Heat water for free

With this kit you can heat water for free. It is a complete solution that includes a 2kW solar array, fixings, cables, protection devices, CT coil, and inverter.

3kW Solar Power Converter + 3kW Solar Array

3kW SUN-3K-G-KIT 3 – Run your AC for free in the daytime

No more high energy bills to run your AC during hot seasons. With this kit you can use your AC for free, by using solar power. It is a complete solution that includes a 3kW solar array, fixings, cables, protection devices, CT coil, and inverter.



STORAGE INVERTER KITS

3.6kW Inverter + 3.1kWh Lithium Power-Maker Battery

SUNSYNK-3.6K-SG01LP1 IP65 KIT 1

3.6kW Inverter + 5.6kWh Lithium Power-Maker Battery

SUNSYNK-3.6K-SG01LP1 IP65 KIT 2

3.6kW Inverter + 11.2kWh Lithium Power-Maker Battery

SUNSYNK-3.6K-SG01LP1 IP65 KIT 3

These kits are a perfect solution for residential application, offering storage capacity ranging from 3.1kWh to 11.2kWh, depending on your needs. The kits include a 3.6kW inverter, protection devices, CT coil, and batteries. All you need for your system.

5.5kW Inverter + 5.6kWh Lithium Power-Maker Battery

SUNSYNK-5.5K-SG01LP1 IP65 KIT 4

The 5.5kW storage kit includes protection devices, CT coil, batteries, and a 5.5kW hybrid inverter. This kit is the best solution for domestic and small commercial applications.

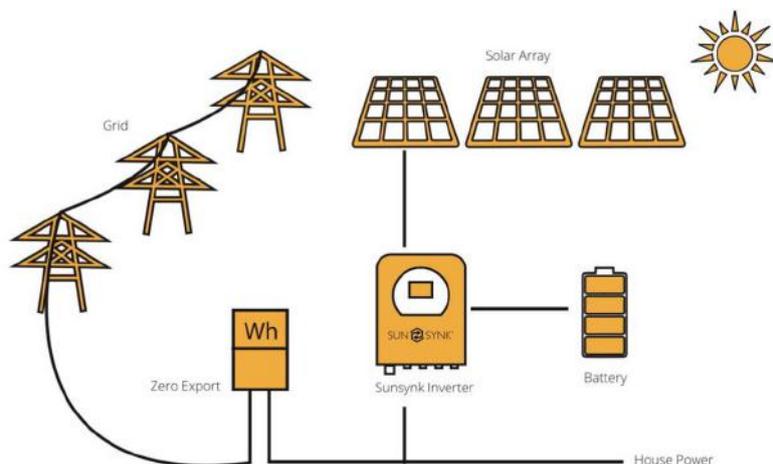


STORAGE INVERTER KITS

8.8kW Inverter + 11.2kWh Lithium Power-Maker Battery

SUNSYNK-8.8K-SG01LP1 IP65 KIT 5

Here we have a powerful solution for commercial applications and big houses. This kit includes a 11kWh storage system, an 8.8kW hybrid inverter, CT coil, and protection devices.



PROFESSIONAL COMPLETE KITS

3.6kW Inverter + 3.1kWh Lithium Power-Maker Battery + 2kW Solar Array

SUNSYNK-3.6K-SG01LP1 IP65 KIT 1s

A small scale professional kit that can be the perfect solution for small houses. It includes a 3.6kW hybrid inverter, a 3.1kWh lithium battery, a 2kW solar array, protection devices plus CT coil. A convenient and complete solution.

3.6kW Inverter + 5.6kWh Lithium Power-Maker Battery + 4kW Solar Array

SUNSYNK-3.6K-SG01LP1 IP65 KIT 2s

This is also a small-scale professional kit with protection devices, CT coil, a 3.6kW hybrid inverter, but with higher generation and storage capacity than the model above, including a 5.6kWh battery and a 4kW solar array.

3.6kW Inverter + 11.2kWh Lithium Power-Maker Battery + 7kW Solar Array

SUNSYNK-3.6K-SG01LP1 IP65 KIT 3s

This kit is similar to the professional kits above, but it can be a better solution for applications that require more storage capacity.



PROFESSIONAL COMPLETE KITS

5.5kW Inverter + 5.6kWh Lithium Power-Maker Battery + 5kW Solar Array

SUNSYNK-5.5K-SG01LP1 IP65 KIT 4s

The Sunsynk 5.5kW All-in-One is a complete solution for domestic and small commercial applications. The 5.5kW hybrid inverter is our best selling inverter and this kit includes a 5.6kWh lithium Power-Maker battery, a 5kW solar array, protection devices and a CT Coil.

8.8kW Inverter + 11.2kWh Lithium Power-Maker Battery + 8kW Solar Array

SUNSYNK-8.8K-SG01LP1 IP65 KIT 5s

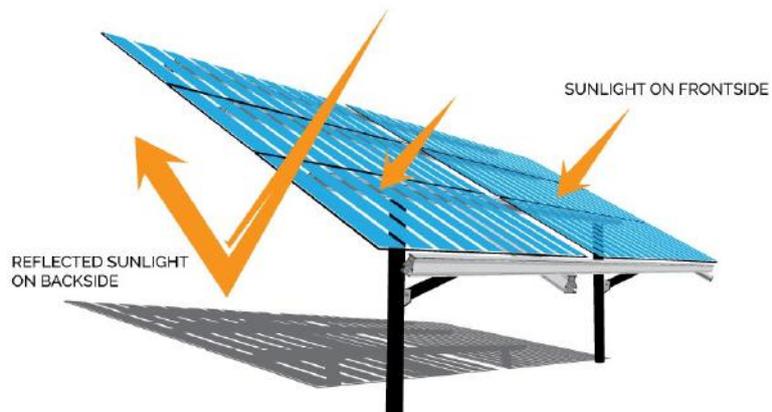
For the customer requiring a lot more power, we present a complete All-in-One kit for the 8.8kW inverter that is the perfect solution for large homes and commercial premises. The kit also comes with a 8kW solar array, CT coil, protection devices and a 11.2kWh battery pack that will deliver sufficient power for larger premises.



SOLAR PANELS

240W Bifacial Solar Panels

Increase your power generation with **Sunsynk Bifacial Solar Panels**

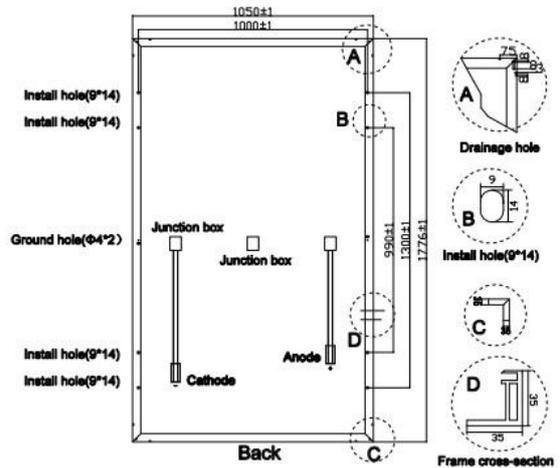
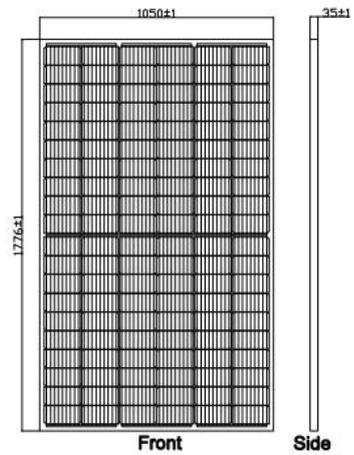


Source: <https://sinovoltaics.com>

SOLAR PANELS

SUN-120HCLM

Here we present Sunsynk® Monocrystalline solar panels ranging from 350W to 390W with cells that feature a 23.7% efficiency. The frame is robust and the junction box has an IP65 rating. It is the perfect solution for a domestic or commercial solar system.



ELECTRICAL DATA (STC)

Model Type	SUN350 MH-30	SUN360 MH-30	SUN370 MH-30	SUN380 MH-30	SUN390 MH-30
Peak Power (Pmax)	350.00	360.00	370.00	380.00	390.00
Maximum Power Voltage (Vmp)	33.30	33.70	34.10	34.50	34.90
Maximum Power Current (Imp)	10.52	10.69	10.86	11.02	11.18
Open Circuit Voltage (Voc)	40.50	40.90	41.30	41.85	42.33
Short Circuit Current (Isc)	11.02	11.20	11.37	11.64	11.81
Cell Efficiency (%)	21.28	21.89	22.50	23.11	23.71
Module Efficiency (%)	18.76	19.30	19.84	20.37	20.91

* STC: irradiance 1000 W/ m², AM 1.5, and cell temperature of 25° C

ELECTRICAL DATA (NOTC)

Model Type	SUN350 MH-30	SUN360 MH-30	SUN370 MH-30	SUN380 MH-30	SUN390 MH-30
Peak Power (Pmax)	259.30	266.70	274.10	282.00	290.00
Maximum Power Voltage (Vmp)	30.80	31.10	31.50	31.87	32.23
Maximum Power Current(Imp)	8.44	8.57	8.71	8.85	9.00
Open Circuit Voltage (Voc)	37.80	38.20	38.50	39.01	39.45
Short Circuit Current (Isc)	8.89	9.03	9.17	9.39	9.55

* NOCT: irradiance 800 W/m², AM 1.5, ambient temperature 20° C, wind speed 1 m/s

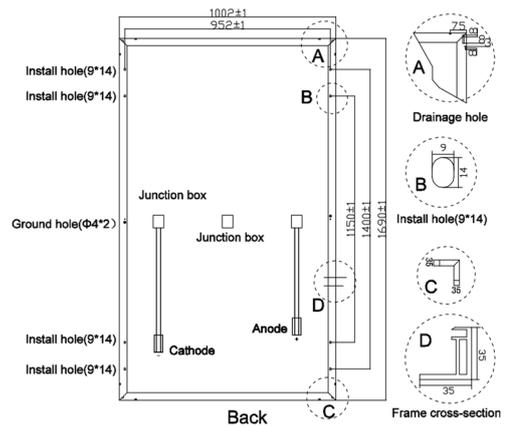
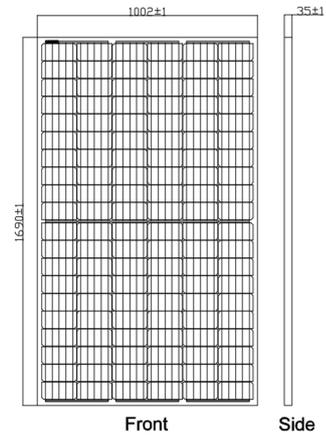
MECHANICAL CHARACTERISTICS

Cell Type	166 x 83 Monocrystalline
No. of Cells	120 (12x10)
Dimensions	1776*1050*35 mm
Weight	20.0kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3 diodes
Output cables	4mm ² cable 90cm+mc4
Max Wind Load/Snow Load	2400Pa/5400Pa

SOLAR PANELS

SUN-120HCLB

Here we present Sunsynk® Monocrystalline solar panels ranging from 350W to 390W with cells that feature a 23.15% efficiency. The frame is robust and the junction box has an IP65 rating. It is the perfect solution for a domestic or commercial solar system.



ELECTRICAL DATA (STC)

Model Type	SUN330 MH-30	SUN335 MH-30	SUN340 MH-30	SUN345 MH-30	SUN350 MH-30
Peak Power (Pmax)	330	335	340	345	350
Maximum Power Voltage (Vmp)	33.35	33.45	33.55	33.65	33.75
Maximum Power Current (Imp)	9.9	10.02	9.9	10.26	10.38
Open Circuit Voltage (Voc)	40.85	40.98	41.1	41.22	41.34
Short Circuit Current (Isc)	10.42	10.55	10.42	10.9	10.93
Cells Efficiency (%)	21.83	22.16	22.49	22.82	23.15
Module Efficiency (%)	19.48	19.78	20.07	20.37	20.65

* STC: irradiance 1000 W/ m², AM 1.5, and cell temperature of 25° C

ELECTRICAL DATA (NOTC)

Model Type	SUN330 MH-30	SUN335 MH-30	SUN340 MH-30	SUN345 MH-30	SUN350 MH-30
Peak Power (Pmax)	245	249	252	256	260
Maximum Power Voltage (Vmp)	31.18	31.28	31.37	31.46	31.56
Maximum Power Current (Imp)	7.86	7.97	8.04	8.14	8.24
Open Circuit Voltage (Voc)	38.41	38.54	38.65	38.76	38.88
Short Circuit Current (Isc)	8.33	8.45	8.52	8.63	8.73

* NOCT: irradiance 800 W/m², AM 1.5, ambient temperature 20° C, wind speed 1 m/s

MECHANICAL CHARACTERISTICS

Cell Type	158.75 x 79.38 Monocrystalline
No. of Cells	120 (12x10)
Dimensions	1690*1002*35 mm
Weight	18.8kg
Front Glass	3.2mm high transmission, low iron, tempered glass
Frame	Anodized Aluminium Alloy
Junction box	IP68 3 diodes
Output cables	4mm ² cable 90cm+mc4
Max Wind Load/Snow Load	2400Pa/5400Pa

BASIC TERMINOLOGY

Alternating Current (AC)	The flow of electricity that constantly changes direction between positive and negative sides. Almost all power produced by electric utilities in the United States moves in a current that shifts direction at the rate of 60 times a second.
Ampere (Amp)	The unit of measure that indicates how much electricity flows through a conductor. It is like using cubic feet per second to measure the flow of water. Example: a 1200w, 120v hair dryer pulls 10 amperes of electric current. (Amps = watts / volts)
Array	A collection of electricity connected photovoltaic (PV) modules.
Battery	Batteries are often sold with a PV system. The primary purpose is to store electricity not immediately used and can be used at some later time. With net metering, the value of batteries is less because the utility grid basically acts as a storage facility. For a reliable generation system that can function independently of the utility grid, the batteries may be an important component of a complete system. Back-up generators may be included in a system to provide power when the PV system is not operating, and are generally included when systems are not grid connected. Neither batteries or generators are eligible for rebate money.
Battery Capacity	The total number of ampere-hours that can be drawn from a fully charged battery.
Circuit	One or more conductors through which electricity flows.
Current	The flow of electricity in a conductor between two points having a difference in potential (voltage).
Customer Load	The amount of power your site uses. 'Load' may be expressed in kilowatts (capacity) or kilowatt-hours (energy). A site's peak kilowatts generally refers to when electric demand requirements are highest.
Cycle	The discharge and subsequent charge of a battery.
Deep Cycle	A type of battery that can be discharged to a large fraction of capacity many times without damaging the battery.
Demand	The level at which electricity is delivered to end-users at a given point in time. Electric demand is measured in kilowatts.
Direct current (DC)	The flow of electricity that travels continuously in one direction.
Efficiency	The ratio of output power (or energy) to input power (or energy) expressed in %.
Electrical Current	A flow of electrons; Electricity.
Electrical Grid	An integrated system of electricity distribution that usually covers a large area.
Gel Type Battery	Lead-acid battery in which electrolyte is composed of a silica-gel matrix.
Grid	The electrical grid that is an interconnected network for delivering electricity from producers to consumers.

Grid-Connected PV System	A PV system in which the PV Array acts like a central generating plant supplying power to the grid.
Inverter	Converts DC power from the PV array/battery to AC power compatible with the utility grid and local AC loads.
Irradiance	The solar power incident on a surface. Usually expressed in kilowatts per square metre. Irradiance x Time = Insolation.
Kilowatt (kW)	One thousand watts. A unit of measure of the amount of electricity needed to operate given equipment. Example - One kW is enough power to illuminate 10 light bulbs at 100 watts each (volts x amps = watts)
Kilowatt-hour (kWh)	The amount of kW produced over a period of time, or one kilowatt of electricity supplied for one hour. A unit of energy. Power multiplied by time equals energy. For example, a one kW PV system, if operating at full capacity for 5 hours will produce 5kWh of electricity during that time.
Load	The amount of electric power used by any electrical unit or appliance at any given time.
Meter	A device that measures levels and volumes of customer's electricity and gas use.
MPPT	Maximum Power Point Tracker - means of power conditioning unit that automatically operates the PV Generator at its maximum power point (MPP) under all conditions.
Peak Load	The highest electrical demand within a particular period of time.
Peak Sun Hours	The equivalent number of hours per day when solar irradiance averages 1,000 w/m ² . Example: Six peak sun hours would mean that the energy received during total daylight hours equals the energy that would have been received had the irradiance for six hours been 1000 W/m ² .
Photovoltaic Array	A group of photovoltaic modules.
Photovoltaic Module	An integral, encapsulated unit containing a number of PV cells. A group of photovoltaic cells combined in series or parallel and encapsulated in an environmentally protective laminate. The smallest replaceable unit of a PV Array is a module and this is the building block of an array.
Photovoltaic System	An installation of PV modules and other components designed to produce power from sunlight and meet the power demand for a designated load.
Solar Hot Water	A process that heats water directly using the sun's radiant energy.
Storage	Storage refers to saving surplus electricity produced by a PV system. Generally, batteries are used as storage devices.
String	A number of modules or panels interconnected electrically in series to produce the operating voltage required by the load.
Uninterruptible Power Supply (UPS)	The designation of a power supply providing continuous uninterruptible service. A UPS contains batteries.
Volt	The amount of force required to drive a steady current of one ampere through a resistance of one ohm. Electrical systems of most homes and offices use 240 volts. (Volts= watts/amps)
Watt	(W) Electrical measurement of power at one point in time, as capacity or demand. For example, light bulbs are classified by wattage. (1000 watts = 1KW)

Manufacturer's Warranty Terms and Conditions

1. Global Tech China Limited and Sunsynk Limited (hereinafter "the Company") hereby warranty against manufacturing faults of the products for the period specified in Schedule-A under the following terms and conditions:
 - a) The product must be purchased and installed within one of the following countries: The United Kingdom, the Isle of Man, the Channel Islands, South Africa, Zimbabwe, Botswana, Hong Kong and Australia. Products purchased and/or installed outside of these countries will not be covered by this Warranty under any circumstances.
 - b) The product must be installed and commissioned in full compliance with the installation instructions provided with the product packages. The product must also meet the requirement of the Benchmark initiative (if applicable).
 - c) The warranty period will commence from date of installation. However, if the installation is made after more than six months from the date on which the product was dispatched by the Company, the warranty period will commence immediately after six months from the date of manufacture.
 - d) The product must be confined to domestic or light commercial use only. For the purpose of this Warranty, "light commercial use" is referred to as a semi domestic- commercial environment including but not limited to hair salons, small shops, pubs). Should a confusion arise regarding the determination of "light commercial use", the decision on the determination of the Company will be final.
 - e) The product must be well-maintained in accordance with the User Manual guidelines. Failure to maintain the product, poor servicing or no servicing of the products might result in invalidation of this Warranty. Proof of servicing by competent servicing centres might be required to obtain warranty facilities.
 - f) The product must not be moved from the original place of installation without prior consent of the Company.
 - g) During the Warranty period, the product must not be serviced, repaired or altered in any way by any third party. Any change, alteration, modification or servicing whatsoever from anyone other than the Company will invalidate the warranty with full effect.
 - h) Following the servicing, repairment or replacement, any parts or products removed from your product will be taken as owner by the Company. You will not have any claim for such parts or products.

2. Warranty Limitations

This Warranty does not include:

- a) Any condition resulting from other than ordinary residential wear or any use for which the product was not intended, such as use in rental or contract trade or commercial use;
- b) Any condition resulting from incorrect or inadequate maintenance or car;
- c) Damage resulting from misuse, abuse, negligence, accidents, theft, tempering, flood, explosion, lightning, storms, frost, shipping damage, adverse weather or any other similar event;
- d) Dissatisfaction due to buyer's remorse;
- e) Normal wear and tear;
- f) Damages incurred during transportation;
- g) Damages incurred during assembly or maintenance (unless assembly or maintenance has been carried out by the Company);
- h) Any unauthorised adjustments made to the product by a third party;
- i) Any upgrading/improvement work required as a result of enactment of new law, (Health & Safety or otherwise).
- j) The Company makes no express warranty or condition whether written or oral and the company expressly disclaims all warranties and conditions not stated in this limited warranty. the Company disclaims all implied warranties or conditions, including any implied warranties of merchantability and fitness for a particular purpose.
- k) All warranty claims must be filed by the consumer to the retailer of this product, who in turn is to contact the manufacturer regarding any warranty return or replacement. The Company will not handle claims from the consumer directly. Please retain invoices for obtaining warranty facilities.
- l) The warranty period specified in Schedule A cannot be extended under any circumstances.

- m) All claims pursuant to this Warranty Statement must be made within the warranty period.
- n) The decision of the Company regarding any issue relating to this warranty statement is final.

Schedule A

The warranty period of the products will depend on its type and the accreditation of the installer. Below is a demonstration:

- Inverters 5 year warrantee
- Solar Panels 15 year warrantee
- Alarms 3 year warrantee
- Batteries 1 year warrantee
- Control gear 10 year warrantee
- Power banks 2 year warrantee
- Light fittings 2 year warrantee
- Air conditioners 5 year warrantee

The Warranty does not apply to the following products:

- Product installed on boats that fall outside the remit of section 'o';
- Consumables as specified by the Company, including but not limited to: fixings, glues, cables, ducting, replaceable batteries, light bulbs and other consumables;

Sunsynk Limited & Global Tech China Ltd,
3 Floor, Wai Yip Industrial Building.
171 Wai Yip Street, Kwun Tong,
Kowloon, Hong Kong.
Tel. HK +852 2884 4318 Fax: +852 2884 4816
Tel. UK +44 151 528 9945
Tel. SA +27 1108 39837
sales@globaltech-china.com

Audio Training manuals on Apple Pod Cast and Spotify
Full training support, manuals and videos on www.sunsynk.com



Global Tech China Ltd

3rd Floor, Wai Yip Street Kwun Tong, Kowloon, Hong Kong

Want to become a distributor? Or want to know more?

Email us: sales@globaltech-china.com Our website: www.sunsynk.com

GT website: www.globaltechchina.com

