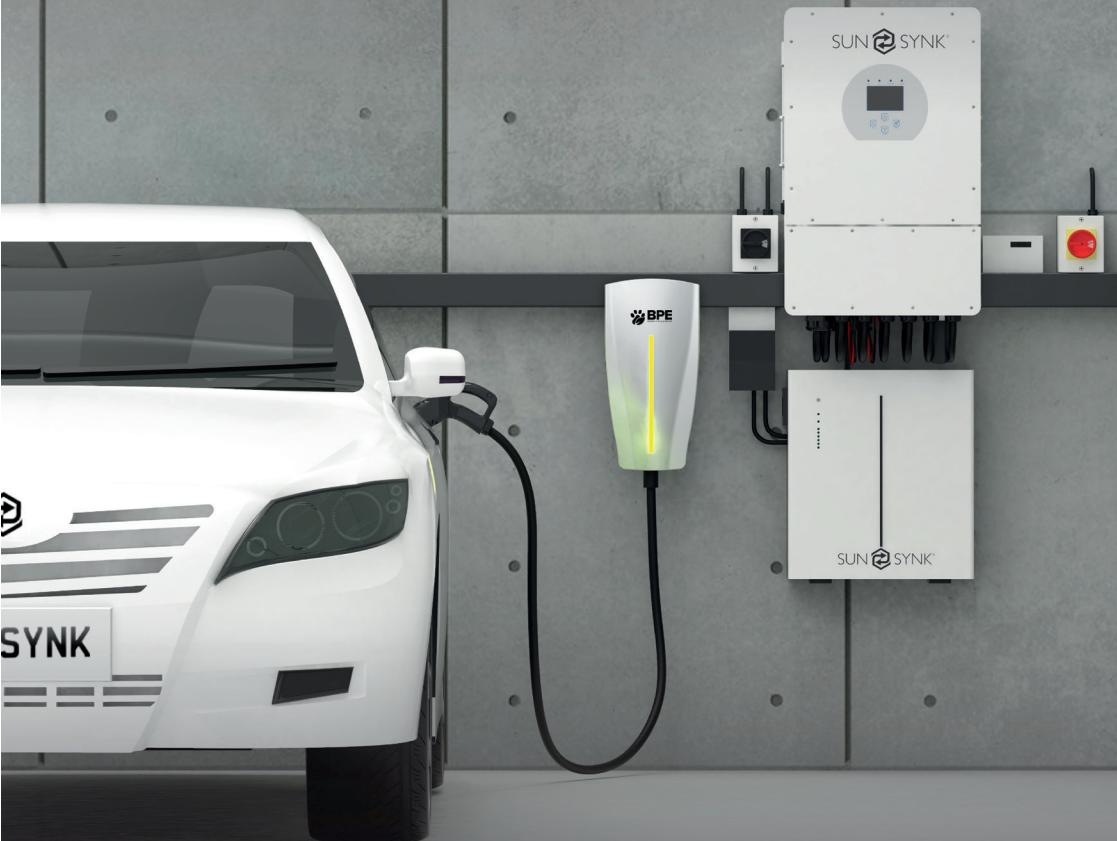




Revolutionising the way we store,
generate & control energy.



Product Catalogue

Inverters & Energy Storage Solutions



POWERED BY
SUNSYNK



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Prices are subject to change.

Our Sales Team



Times are changing and with energy prices rising our sales team are on hand to provide the most up-to date cost effective solutions for you or your business. We would love to hear from you, we are happy to answer any queries you may have.

Excellent After-Sales Support

Sunsynk operate a European Call Centre that can answer customer queries and clarify any questions with follow-up calls when required. The call centre will ensure the correct Sunsynk staff is assigned to the correct query raised by each customer.



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Mission Statement

Our mission is to provide high-quality products that will help shape our future with a greener planet, we strive to develop technology that will benefit both 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.

The Sunsynk range of solar products is the culmination of years of research and development, along with our Sunsynk Connect application we are supplying game changing technology that is taking the world by storm. Our revolutionary products are making a difference and will continue to make a difference in years to come. We will continue to develop with new technology that will help shape our future for a cleaner and more sustainable planet.

Established over 20 years ago, Sunsynk is part of the Global Tech China Group and is based in the UK with manufacturing based in Ningbo, China. We are closely partnered with the Science Department of Ningbo University, where our technology is jointly developed.

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, the United Kingdom and Europe, our power storage products have proven to be very popular.

Globally new-build houses will come supplied with solar power and battery storage as part of the standard building design. As the mains electricity prices rise, it will be a severe disadvantage selling a house without an installed energy storage device. 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 bill. 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.

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 cover all aspects of power generation, storage and management bringing the future of green, environmentally friendly energy to households and commercial applications.

Our systems 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.

Our energy storage systems will store electricity from sources such as solar, wind, grid power and generators, for use when you require. Furthermore, when your battery is fully charged and electricity is still being generated, our systems can export that energy either to an auxiliary load such as a water heater, hot tub, swimming pool etc or back to the grid. This feature comes as standard in all of our hybrid inverters.

It is possible in countries such as the UK or Hong Kong to receive payback from the mains supplier when power is exported to the grid. This allows you to earn money and cover the cost of your system within a short period.

INTRODUCTION

Sunsynk Hybrid Inverters

Traditional inverters

Inverters have been around for a long time.

Solar panels link to the inverter which in turn converts the DC power from the solar panels into AC power that you can use in your home!

Traditional systems do work but only when the sun is out, and any energy that you don't use during that time will be fed back to the grid.

Depending on your electricity tariff, you can receive some payback for this, usually a few pence per kWh. However, in the evening when there is no sun, you could be buying that power back at 20 times the price!



Sunsynk's game changing inverters!

Sunsynk has invented a new type of storage inverter, called a bi-directional inverter.

This allows you to fast charge a storage battery during the day, saving the excess power that you're not using so that you can use your stored power in the evenings. Our inverters range from 3.6kW to 16kW in single and 12kw to 50kW in three-phase, with the option to pair multiple units for more power.

Our inverters can also be referred to as hybrid inverters. This means that you can use these in both on and off-grid applications. As well as being able to connect solar PV and batteries to the same inverter!

STANDARD FEATURES



All our hybrid inverters feature a very user-friendly touchscreen LCD display, IP65 protection and a five-year warranty, with an optional extended warranty!

They all work in both on and off-grid applications and can also be used as a UPS (Uninterruptible Power Supply).

Features:

- Warranty included.
- IP65 protected.
- Compact design.
- Works both on and off-grid.
- Rapid battery charging.
- Built-in DC isolator.
- Built-in UPS (Uninterruptible Power Supply)
- Built-in auxiliary load.

All Sunsynk hybrid inverters are compatible with our new Sunsynk Connect app and mobile / PC app! Allowing you to get the most out of your on or off-grid set-up. This gives you complete control over your hybrid inverter from anywhere in the world, all from your phone.

3.6kW Hybrid Inverter

Our inverters have been developed specifically for the UK and Europe to meet the needs posed by these markets.

The 3.6kW/7kW MPPT Hybrid Inverter is suitable for residential and light commercial use, maximizing self-consumption rate of solar energy and increasing your energy impedance.

During the day, the PV system generates electricity which will be provided to the loads initially. Then, the excess energy will charge the battery via the inverter.

Finally, the stored energy can be released when the loads require it. The battery can also be charged by the diesel generator to ensure uninterrupted supply in the event of grid blackout. It is equipped with a RS485/CAN port for battery communication.

RUNS SILENT

7kW MPPT

Features:

- Colourful touch LCD, IP65 protection degree.
- DC couple and AC couple to retrofit existing solar system.
- Max.16 inverters in parallel; support multiple batteries parallel.
- Max. charging/discharging current of 90A.
- 6 time periods for battery charging/discharging.
- Support storing energy from diesel generator.
- Warranty included.



Length: 33cm **Width:** 23.8cm **Height:** 43.3cm

Single-Phase Bi-Directional Inverter

Model		Sunsynk 3.6kW Ecco Inverter
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)		150~425V
Full Load DC Voltage Range (V)		300~425V
Start-up Voltage (V)		125V
PV Input Current (A)		13A+13A
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)		3680W
Peak Power (Off-Grid)		2 times of rated power, 10 S
AC Output Rated Current (A)		15.7Aa.c
Max AC Output Current (A)		17.2Aa.c
Max Continuous AC Pass-through (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%
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
Protection Degree		IP65

5kW Hybrid Inverter

Our inverters have been developed specifically for the UK and Europe to meet the needs posed by these markets.

The 5kW Hybrid Inverter is suitable for residential and light commercial use, maximizing the self-consumption rate of solar energy and increasing your energy impedance.

During the day, the PV system generates electricity which will be provided to the loads initially. Then, the excess energy will charge the battery via the inverter.

Finally, the stored energy can be released when the loads require it.

The battery can also be charged by the diesel generator to ensure uninterrupted supply in the event of a grid blackout. It is equipped with an RS485/CAN port for battery communication.

BI-DIRECTIONAL INVERTER

Features:

- Colourful touch LCD, IP65 protection degree.
- DC couple and AC couple to retrofit existing solar system.
- Max. 16 inverters in parallel; support multiple batteries parallel.
- Max. charging/discharging current of 125A.
- 6 time periods for battery charging/discharging.
- Support storing energy from the diesel generator.
- Warranty included.



Length: 33cm **Width:** 23.8cm **Height:** 43.3cm

Single-Phase Bi-Directional Inverter

Model		Sunsynk 5kW Ecco Inverter
Product Type		Hybrid Inverter
Enclosure		IP65
Ambient Temperature		-40°C ~ 60°C (>45°C derating)
Protection Level		Class I
Charge Mode		
Battery Voltage		48Vd.c (40Vd.c ~ 60Vd.c)
Battery Current		120Ad.c (max.)
AC Input Voltage		L/N/PE 230Va.c
AC Input Frequency		50/60Hz
AC Input Rated Current		21.7Aa.c
Max. AC Input Current		25Aa.c (max.)
Max. AC Input Power		5000W
Max. Apparent Output Power		5500VA
PV Input Voltage		370Vd.c (125Vd.c ~ 500Vd.c)
MPPT Input Voltage		150Vd.c ~ 425Vd.c
PV Input Current		13Ad.c + 13Ad.c
Max. PV Input Power		6500W
Max. PV Isc		17Ad.c + 17Ad.c
Utility-Interactive		
AC Output Voltage		L/N/PE 230Va.c
AC Output Frequency		50/60Hz
AC Output Rated Current		21.7Aa.c
Max. AC Output Current		23.9Aa.c
Max. AC Output Power		5500W
AC Output Rated Power		5000VA
AC Output Power Factor		0.8 leading to 0.8 lagging
Max. AC Isc		75Aa.c
Battery Discharge Voltage		40Vd.c ~ 60Vd.c
Battery Discharge Current		120Ad.c (max.)
Battery Discharge Power		5000W
Stand Alone		
AC Output Voltage		L/N/PE 230Va.c
AC Output Frequency		50/60Hz
AC Output Rated Current		23.9Aa.c
AC Output Rated Power		5500W
Max. Continuous AC Pass-through Current		35Aa.c
Peak Output Power		10000W (10 seconds)
Battery Discharge Voltage		40Vd.c ~ 60Vd.c
Max. Discharge Current		120A (max.)
Compliance	VDE-AR-N 4105:1028-11; DINVDE V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011	

8.8kW Hybrid Inverter

Our inverters have been developed specifically for the UK and Europe to meet the needs posed by these markets.

The 8.8kW 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 generators, and then effectively storing the excess energy generated in a battery bank and releasing the stored energy when the need arises. 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 Data Logger 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 you need a bit more power, especially for systems that are totally off-grid or where a substantial UPS is required. It has a 50% power surge facility and the advantage that it can reverse and charge batteries with very high power when required. Sunsynk Hybrid Inverters use IGBT this means they are more reliable and can safe guard your system against surges and EMF.

Features:

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



Length: 58cm **Width:** 23.7cm **Height:** 33cm

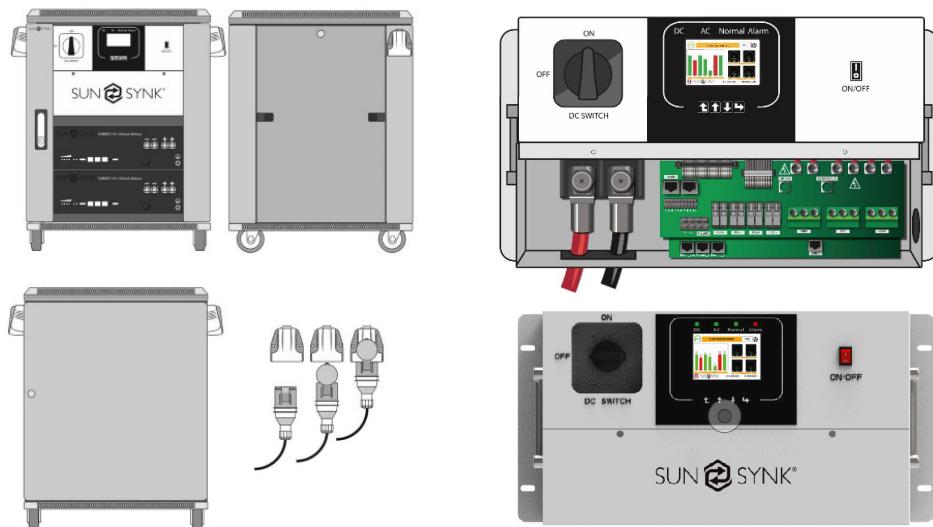
Single-Phase Bi-Directional Inverter

Model		Sunsynk 8.8kW Ecco Inverter
Product Type		Hybrid Inverter
Enclosure		IP65
Ambient Temperature		-45°C ~ 60°C (>45°C derating)
Protection Level		Class I
Charge Mode		
Battery Voltage		48Vd.c (40Vd.c ~ 60Vd.c)
Battery Current		190Ad.c (max.)
AC Input Voltage		L/N/PE 220/230Va.c
AC Input Frequency		50/60Hz
AC Input Rated Current		36.4Aa.c
Max. AC Input Current		40Aa.c (max.)
Max. AC Input Power		8800W
Max. Apparent Output Power		8800VA
PV Input Voltage		370Vd.c (125Vd.c ~ 500Vd.c)
MPPT Input Voltage		150Vd.c ~ 425Vd.c
PV Input Current		22Ad.c + 22Ad.c
Max. PV Input Power		10400W
Max. PV Isc		28Ad.c + 28Ad.c
Utility-Interactive		
AC Output Voltage		L/N/PE 220/230Va.c
AC Output Frequency		50/60Hz
AC Output Rated Current		36.4Aa.c
Max. AC Output Current		40Aa.c (max.)
Max. AC Output Power		8800W
AC Output Rated Power		8800VA
AC Output Power Factor		0.8 leading to 0.8 lagging
Max. AC Isc		145Aa.c
Battery Discharge Voltage		40Vd.c ~ 60Vd.c
Battery Discharge Current		190Ad.c (max.)
Battery Discharge Power		8000W
Stand Alone		
AC Output Voltage		L/N/PE 220/230Va.c
AC Output Frequency		50/60Hz
AC Output Rated Current		36.4Aa.c
AC Output Rated Power		8800W
Max. Continuous AC Pass-through Current		50Aa.c
Peak Output Power		16000W (10 seconds)
Battery Discharge Voltage		40Vd.c ~ 60Vd.c
Max. Discharge Current		190A (max.)
Compliance	VDE-AR-N 4105:1028-11; DIN VDE V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011	

HYBRID STORAGE INVERTERS

Rack-Mounted Inverter

The Rack-Mounted Inverters are perfect for use where space is tight. They can be stacked up with batteries for several applications, for example, telecommunications systems and office UPS. Its convenient LCD display offers the user a configurable and accessible button operation, and once the Data Logger has been attached, the user can monitor and adjust the inverter's functions remotely to make the most of installed power generation and storage.



They can also be connected to several input types, such as PV, AC grid, batteries, generators, micro-inverter, and wind turbines.

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.
- Warranty included.

Model Battery Input Data		SUNSYNK-6K-SG02LP1	SUNSYNK-7.6K-SG02LP1
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 Pass-through	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 Lightening 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, IEE1547, 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		

16kW Sunsynk Max

The most powerful low-voltage inverter in the world!

We have taken the Sunsynk hybrid inverter to the highest level. Our new Sunsynk MAX is the most powerful low-voltage inverter currently available in the world, achieving the maximum output power of 16kW and battery charge current of 300A.

This power management tool allows the user to hit those 'parity' targets by managing power-flow from multiple sources such as solar, mains power (grid) and generators, and then effectively storing and releasing power as and when the need arises.



Colourful touch LCD,
IP65 protection degree.



DC couple and AC couple to
retrofit existing solar system.



Max. 16 inverters in parallel;
support multiple batteries parallel.



Max. charging/discharging
current of 300A.



16kW super hybrid inverter
(warranty included).



Support storing energy from
diesel generator.



Length: 76.3cm **Width:** 30cm **Height:** 42.5cm

Model		SUNSYNK MAX
Battery Input Data		
Battery Type		Lead-acid or lithium-ion
Battery Voltage Range		43~60V
Max. Charge Current		300A
Max. Discharge Current		300A
Charging Curve		3 stages/equalisation
External Temperature Sensor		Yes
Charging Strategy for Li-Ion Battery		Self-adaptation to BMS
PV String Input Data		
Max. DC Input Power		18000W
Max PV Input Voltage		450V
MPPT Range		250V~450V
Start-up Voltage		150V
PV Input Current		22A + 22A + 22A
Max. PV Isc		26A + 26A + 26A
No. of MPPT / Strings per MPPT		3 / 2
AC Output Data		
Max. On-Grid AC Power		16000W
Max. Off-Grid AC Power		13000W
Peak Power (Off-Grid)		2 times of rated power, 10 S
AC Output Rated Current		65A
Max AC Current		70A
Max Continuous AC Pass-through		150A
Bypass Current		150A
Frequency Range		45Hz ~55Hz
Voltage Range		211V ~ 264V
Grid Type		Single-phase
Current Harmonic Distortion		THD<3%(linear load<1.5%)
Efficiency		
Max. Efficiency		97.60%
Euro Efficiency		97.00%
MPPT Efficiency		99.90%
Protection		
Integrated		PV Input Lightning Protection, Anti-islanding Protection, PV String Input Reverse Polarity Protection, Insulation Resistor Detection, Residual Current Monitoring Unit, Output Over Current Protection, Surge protection, DC Battery Current Protection
Certifications and Standards		
Grid Regulation		VDE 0126, AS4777, NRS2017, G98, G99, IEC61683, IEC62116, IEC61727, RD1699:2011, XP C15-712-3:2019-05
Safety EMC / Standard		IEC62109-1, IEC62109-2, EN61000-6-1, EN61000-6-3
General Data		
Operating Temperature Range		-25~55°C
Cooling		Fan
Noise		<30dB
Communication with BMS		RS485; CAN
Weight		34.5kg
Size		422W×702H×281D mm
Protection Degree		IP65
Installation Style		Wall-mounted

3-PHASE HYBRID INVERTERS

3-Phase 8kW Hybrid Inverter

The Sunsynk Three-Phase On-Grid Parity Inverter is a highly efficient power management tool for three-phase grid applications.

This inverter allows the user to control power flow from multiple sources such as solar, main electrical grids, and generators, and effectively store and deliver electric power to the grid.

They can operate with unbalanced loads, 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 190A.
- Frequency control.
- Up to 10 inverters in parallel.
- DC and AC couple to retrofit the existing solar system.
- Support storing energy from diesel generator.
- Interactive display.
- Warranty included.



Length: 33.0cm **Width:** 23.7cm **Height:** 58.0cm

Three-Phase Bi-Directional Inverter

Model No.	SUNSYNK-8K-SG04LP3
Product Type	Hybrid Inverter
Enclosure	IP65
Ambient Temperature	-40°C ~ 60°C; >45°C Derating
Protection Level	Class I
Charge Mode	
Battery Voltage	48Vd.c (40Vd.c ~ 60Vd.c)
Battery Current	190Ad.c (max.)
AC Input Voltage	3L/N/PE 220/380Va.c, 230/400Va.c
AC Input Frequency	50/60Hz
AC Input Rated Current	12.1/11.6A
Max. AC Input Current	13.4/12.8A
Max. AC Input Power	8800W
Max. Apparent Output Power	8800VA
PV Input Voltage	550Vd.c (160Vd.c ~ 800Vd.c)
MPPT Input Voltage	200Vd.c ~ 650Vd.c
PV Input Current	13Ad.c + 13Ad.c
Max. PV Input Power	10400W
Max. PV Isc	17Ad.c + 17Ad.c
Utility-Interactive	
AC Output Voltage	3L/N/PE 220/380Va.c, 230/400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	12.1/11.6A
Max. AC Output Current	13.4/12.8A
Max. AC Output Power	8800W
AC Output Rated Power	8000W
AC Output Power Factor	0.8 leading to 0.8 lagging
Max. AC Isc	75Aa.c
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Battery Discharge Current	190Ad.c (max.)
Battery Discharge Power	190 x 50 = 9500W
Stand Alone	
AC Output Voltage	3L/N/PE 220/380Va.c, 400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	12.1/11.6A
AC Output Rated Power	8000W
Max. Continuous AC Pass-through Current	45Aa.c
Peak Output Power	16kW
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Max. Discharge Current	190Ad.c (max.)
Compliance	VDE-AR-N 4105:1028-11; DIN V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011

3-Phase 10kW Hybrid Inverter

The Sunsynk Three-Phase On-Grid Parity Inverter is a highly efficient power management tool for three-phase grid applications.

This inverter allows the user to control power flow from multiple sources such as solar, main electrical grids, and generators, and effectively store and deliver electric power to the grid.

They can operate with unbalanced loads, 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 210A.
- Frequency control.
- Up to 10 inverters in parallel.
- DC and AC couple to retrofit the existing solar system.
- Support storing energy from diesel generator.
- Interactive display.
- Warranty included.



Length: 42.2cm **Width:** 28.1cm **Height:** 65.8cm

Three-Phase Bi-Directional Inverter

Model No.	SUNSYNK-10K-SG04LP3
Product Type	Hybrid Inverter
Enclosure	IP65
Ambient Temperature	-40°C ~ 60°C; >45°C Derating
Protection Level	Class I
Charge Mode	
Battery Voltage	48Vd.c (40Vd.c ~ 60Vd.c)
Battery Current	210Ad.c (max.)
AC Input Voltage	3L/N/PE 220/380Va.c, 230/400Va.c
AC Input Frequency	50/60Hz
AC Input Rated Current	15.2/14.5A
Max. AC Input Current	16.7/15.9A
Max. AC Input Power	11000W
Max. Apparent Output Power	11000VA
PV Input Voltage	550Vd.c (160Vd.c ~ 800Vd.c)
MPPT Input Voltage	200Vd.c ~ 650Vd.c
PV Input Current	26Ad.c + 13Ad.c
Max. PV Input Power	13000W
Max. PV Isc	34Ad.c + 17Aa.c
Utility-Interactive	
AC Output Voltage	3L/N/PE 220/380Va.c, 230/400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	15.2/14.5A
Max. AC Output Current	16.7/15.9A
Max. AC Output Power	11000W
AC Output Rated Power	10000W
AC Output Power Factor	0.8 leading to 0.8 lagging
Max. AC Isc	75Aa.c
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Battery Discharge Current	210Ad.c (max.)
Battery Discharge Power	10000W
Stand Alone	
AC Output Voltage	3L/N/PE 220/380Va.c, 230/400Va.c
AC Output Frequency	50/60Hz
AC Output Rated Current	15.2/14.5A
AC Output Rated Power	10000W
Max. Continuous AC Pass-through Current	45Aa.c
Peak Output Power	20000W (10 seconds)
Battery Discharge Voltage	40Vd.c ~ 60Vd.c
Max. Discharge Current	210Ad.c (max.)
Compliance	VDE-AR-N 4105:1028-11; DIN V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011

3-Phase 12kW Hybrid Inverter

The Sunsunk Three-Phase On-Grid Parity Inverter is a highly efficient power management tool for three-phase grid applications.

This inverter allows the user to control power flow from multiple sources such as solar, main electrical grids, and generators, and effectively store and deliver electric power to the grid.

They can operate with unbalanced loads, 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 240A.
- Frequency control.
- Up to 10 inverters in parallel.
- DC and AC couple to retrofit the existing solar system.
- Support storing energy from diesel generator.
- Interactive display.
- Warranty included.



Length: 42.2cm **Width:** 28.1cm **Height:** 65.8cm

Three-Phase Bi-Directional Inverter

Model No.		SUNSYNK-12K-SG04LP3
Product Type		Hybrid Inverter
Enclosure		IP65
Ambient Temperature		-40°C ~ 60°C, >45°C Derating
Protection Level		Class I
Charge Mode		
Battery Voltage		48Vd.c (40Vd.c ~ 60Vd.c)
Battery Current		240Ad.c (max.)
AC Input Voltage		3L/N/PE 220/380Va.c, 230/400Va.c
AC Input Frequency		50/60Hz
AC Input Rated Current		18.2/17.4A
Max. AC Input Current		20/19.1A
Max. AC Input Power		13200W
Max. Apparent Output Power		13200VA
PV Input Voltage		550Vd.c (160Vd.c ~ 800Vd.c)
MPPT Input Voltage		200Vd.c ~ 650Vd.c
PV Input Current		26Ad.c + 13Ad.c
Max. PV Input Power		15600W
Max. PV Isc		34Ad.c + 17Ad.c
Utility-Interactive		
AC Output Voltage		3L/N/PE 220/380Va.c, 230/400Va.c
AC Output Frequency		50/60Hz
AC Output Rated Current		18.2/17.4A
Max. AC Output Current		20/19.1A
Max. AC Output Power		13200W
AC Output Rated Power		12000W
AC Output Power Factor		0.8 leading to 0.8 lagging
Max. AC Isc		75Aa.c
Battery Discharge Voltage		40Vd.c ~ 60Vd.c
Battery Discharge Current		240Ad.c (max.)
Battery Discharge Power		12000W
Stand Alone		
AC Output Voltage		3L/N/PE 220/380Va.c, 230/400Va.c
AC Output Frequency		50/60Hz
AC Output Rated Current		18.2/17.4A
AC Output Rated Power		12000W
Max. Continuous AC Pass-through Current		45Aa.c
Peak Output Power		24000W (10 seconds)
Battery Discharge Voltage		40Vd.c ~ 60Vd.c
Max. Discharge Current		240Ad.c (max.)
Compliance	VDE-AR-N 4105:1028-11; DIN V 0124-100:2020-06; IEC/EN62109-1/2:2010; IEC/EN62109-1/2:2011	

LITHIUM BATTERIES

Sunsynk 5.32kWh Battery

Sunsynk's top-grade 5.32kWh lithium-ion phosphate batteries have been engineered to the highest standard. They are capable of up to 100% depth of discharge and scalable up to 16 times, allowing for a maximum of 85.12kWh per inverter.

Our BMS (Battery Management System) also offers a quick paralleling function, so no dip switches are needed, making installation straightforward.

Our battery is 1C rated, meaning that it will be able to charge or discharge at the full 5.32kWh until it is depleted. This allows the end user to utilise the full potential of our inverter and battery systems.

The Sunsynk 5.32kWh Battery is one of the lightest in its class, weighing just 46.5kg!

Features:

- 100% depth of discharge (recommended 80%).
- Scalable from 5.32 to 85.12 kWh.
- Premium lithium ion phosphate (LFP) 6000 cycles.
- Floor stand or wall mounted.
- Compatible with major PCS brand.
- One button ON / OFF automatic ID assignment.

Length: 45.0cm **Width:** 15.0cm **Height:** 53.3cm



Lithium Batteries

Model No.	SUN-BATT-5.32
Performance	
Nominal Voltage	51.2 Vdc
Nominal Capacity	104Ah
Battery Energy ¹	5320 Wh
Charge Voltage	55.68~56.16Vdc
Discharge Voltage	45.6~56.16 Vdc
Nominal Charge / Discharge Current	50A
Nominal Charge / Discharge Power	2500W
Max Charge / Discharge Current	100A
Max Charge / Discharge Power	5000W
Short Circuit Current	350A
Communication	
Display	SOC status indicator, LED indicator
Communication	RS232, RS485, CAN
General Specification	
Dimension (W×D×H mm)	450×520×185mm
Weight (kg)	46.5kg
Installation	Floor stand or wall mounted
Working Temperature ²	-20°C ~ 60°C
Storage Temperature	≤25°C,12 months; ≤35°C,6 months; ≤45°C,3 months
Operating / Storage / Humidity	≤95%RH
Max Operating Altitude	≤2000m
IP Rating	IP20
Cell Technology	LiFePO ₄ Lithium Ion Phosphate
Cycle Life ³	6000 Cycles @ 80% DOD/25°C/0.5C, 60% EOL
Scalability	Max 8 batteries in parallel
Standard Compliance	
Certification	PACK:UN38.3, IEC6219, IEC61000CELL:UN38.3, IEC6219, UL 1642, JET (more available upon request)

LITHIUM BATTERIES

Sunsynk IP65 Battery

Our IP65 lithium-ion phosphate is our most recent energy storage product developed and produced by Sunsynk. It can be used to support reliable power for various types of equipment and systems. It is especially suitable for application scenarios of high power, limited installation space and cycle life.

This energy storage module includes lithium-ion phosphate rechargeable batteries with 5.12kWh capacity, and our in-built battery management system allows for up to 32 modules in parallel.

Our BMS can manage and monitor cell information such as battery voltage, current and temperature. The BMS can balance cells charging and discharging to help maximise the life of your battery.

Features:

- Working temperature range is from -20°C to 55°C, with excellent discharge performance.
- Over-discharge, over-charge, over-current and over-high or low temperature.
- LiFePO4 with safety performance and long cycle life.
- Non-toxic and environmentally friendly.
- Floor stand or wall mounted.
- Multiple battery modules, can be in parallel for expanding capacity and power.

Length: 44.0cm **Width:** 13.5cm **Height:** 62.0cm



Lithium Batteries

Model No.	SUNSINK-L5.1	
Main Parameter		
Battery Chemistry	LiFePO4	
Capacity (Ah)	100	
Scalability	Max.32 pcs in parallel (163.8kWh)	
Nominal Voltage (V)	51.2	
Operating Voltage (V)	43.2~57.6	
Energy (kWh)	5.12	
Usable Energy (kWh)	4.61	
Charge/Discharge Current (A)	Recommend	50
	Max.	100
	Peak(2mins,25°C)	150
Other Parameter		
Recommend Depth of Discharge	90%	
Dimension (W/H/D)mm	440*640*140	
Weight Approximate (kg)	50	
Master LED Indicator	5 LED (SOC 20%~100%)	
	3 LED (working, alarming, protecting)	
IP Rating of Enclosure	IP65	
Working Temperature	Charge:0°C~55°C Discharge:-20°C~55°C	
Storage Temperature	0°C~35°C	
Humidity	5%~95%	
Altitude	≤2000m	
Cycle Life	≥6000(25±2°C,0.5C/0.5C,70%EOL)	
Installation	Wall Mounted or 19-inch standard cabinet	
Communication Port	CAN2.0, RS485	
Life Cycle Power During Warranty Period	16MWh@70%EOL	
Certification	IEC62619, CE, UN38.3	

STRING INVERTERS

Single-Phase Grid-Tied Inverters

SUN-3K-G / SUN-5K-G

This inverter is specifically designed to handle solar systems that power heaters and water pumps fitted to swimming pools, greenhouses and other power-hungry applications.

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, if there is a low amount of 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 No.	SUN-3K-G	SUN-3.6K-G	SUN-5K-G		
PV String Input Data					
Max. DC Input Power (W)	3600W	4680W	6500W		
Start-up DC Input Voltage	120V	80V			
Max. DC Input Voltage	500V	550V			
MPPT Operating Range	100~500V	70~550V			
Max. DC Input Current	12.5A	12.5A + 12.5A			
Number of MPPT / Strings per MPPT	1 / 1		2 / 1		
AC Output Data					
Rated Output Power	3000W	3600W	5000W		
Max. Active Power	3300W	4000W	5500W		
AC Grid Voltage Range	180~300V				
Rated AC Grid Voltage	230V				
Rated Grid Frequency	50/60Hz (optional)				
Operating Phase	Single-phase				
Rated AC Grid Output Current	13.1A	15.7A	21.7A		
Max. AC Output Current	14A	17.4	23.9A		
Output Power Factor	0.8 leading to 0.8 lagging				
Grid Current THD	<3%				
DC Injection	<0.5%				
Grid Frequency Range	47~52 or 57~62 (optional)				
Efficiency					
Max. Efficiency	97.5%	97.3%	97.5%		
Euro Efficiency	97.3%	97.1%	97.3%		
Protection					
Integrated Protection	DC Reverse-Polarity Protection, AC Short Circuit Protection, AC Over-current Protection, Output Over-voltage Protection, Insulation Resistance Protection, Ground Fault Monitoring, Anti-Islanding Protection, Temperature Protection, Integrated DC Switch, Remote software upload, Remote change of operating parameters, Surge protection				
General Data					
Size (W x H x D)	330 x 310 x 115 mm	330 x 310 x 172 mm			
Weight	6kg	11kg			
Running Temperature	-25°C~60°C	-25°C~65°C			
Ingress Protection	IP65				
Noise Emission (Typical)	<30dB	<25dB			
Cooling Concept	Natural cooling				
Standards					
Grid Connection Standard	EN50549, IEC61727, VDE 0126-1-1, IEC62109-1-2	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11			
Safety EMC / Standard	IEC62109-1-2, EN61000-6-1, EN61000-6-3				

Three-Phase Grid-Tied Inverters

SUN-30K-G / SUN-50K-G

This series of Grid-tied Inverters is the preferred choice for commercial PV system.

The free-standing design, greatly reduces installation time and costs, with a maximum of four MPPTs design and maximum capacity of 60kW, it is scalable up to the megaWatt range.

The inverters have four integrated MPPTs, allowing four-array to input from different roof orientations, this allows the system to be monitored and controlled remotely.



4 MPPT, max. efficiency up to 98.7%.



Zero export application,
VSG application.



String intelligent monitoring.



Wide output voltage range.



Anti-PID function (optional).



Three-Phase Grid-Tied Inverters

Model No.	SUN-30K-G	SUN-50K-G	SUN-60K-G
PV String Input Data			
Max. DC Input Power (W)	39000W	65000W	78000W
Start-up DC Input Voltage		250V	
Max. DC Input Voltage		1000V	
MPPT Operating Range		200~850V	
Max. DC Input Current	40A+40A	40A+40A+40A+40A	
Number of MPPT / Strings per MPPT	2 / 3		4 / 3
AC Output Data			
Rated Output Power	30000W	50000W	60000W
Max. Active Power	33000W	55000W	66000W
Rated AC Grid Voltage	3L/N/PE 380V/323V-418V, 400V/340V-440V		
Rated Grid Frequency		50/60Hz (optional)	
Operating Phase		Three-phase	
Rated AC Grid Output Current	43.5A	72.4A	87A
Max. AC Output Current	47.9A	79.7A	95.7A
Output Power Factor		0.8 leading to 0.8 lagging	
Grid Current THD		<3%	
DC Injection		<0.5%	
Grid Frequency Range		47~52 or 57~62 (optional)	
Efficiency			
Max. Efficiency		98.7%	
Euro Efficiency		98%	
Protection			
Integrated Protection	DC Reverse-Polarity Protection, AC Short Circuit Protection, AC Over-current Protection, Output Over-voltage Protection, Insulation Resistance Protection, Ground Fault Monitoring, Anti-Islanding Protection, Temperature Protection, Integrated DC Switch, Remote software upload, Remote change of operating parameters, Surge protection DC Type II / AC Type II		
General Data			
Size (W x H x D)	647.5 x 537 x 303.5 mm		
Weight	44.5kg		
Running Temperature	-25°C~65°C		
Ingress Protection	IP65		
Noise Emission (Typical)	<45dB		
Cooling Concept	Smart cooling		
Standards			
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11		
Safety EMC / Standard	IEC62109-1-2, EN61000-6-1, EN61000-6-3		

Three-Phase Grid-Tied Inverters

SUN-80K-G

This series is suited for medium and large-scale commercial rooftops and ground-mounted solar PV system in which reliability and stability are important.

The full series inverter has 30% DC input oversizing ratio and 10% AC output overloading ratio, offering a faster return on investment.

They still have four integrated MPPTs, allowing four-array to input from different roof orientations, this allows the system to be monitored and controlled remotely.



4 MPPT, max. efficiency up to 98.7%.



Zero export application,
VSG application.



String intelligent monitoring.



Wide output voltage range.



Anti-PID function (optional).



Three-Phase Grid-Tied Inverters

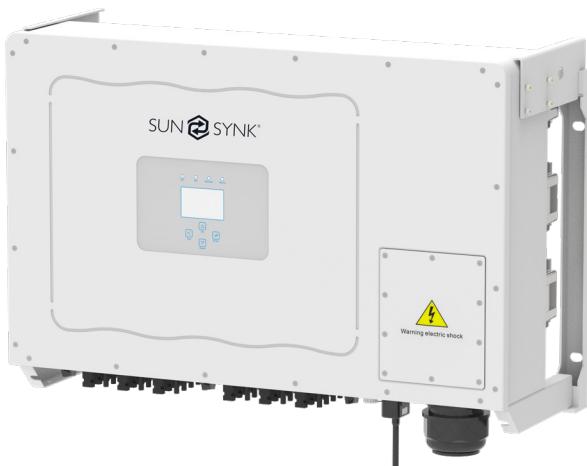
Model No.	SUN-75K-G	SUN-80K-G
PV String Input Data		
Max. DC Input Power (W)	39000W	65000W
Start-up DC Input Voltage	250V	
Max. DC Input Voltage	1000V	
MPPT Operating Range	200~850V	
Max. DC Input Current	40A+40A+40A+40A	
Number of MPPT / Strings per MPPT	4 / 4	
AC Output Data		
Rated Output Power	75000W	80000W
Max. Active Power	82500W	88000W
Rated AC Grid Voltage	3L/N/PE 380V/323V-418V, 400V/340V-440V	
Rated Grid Frequency	50/60Hz (optional)	
Operating Phase	Three-phase	
Rated AC Grid Output Current	108.7A	115.9A
Max. AC Output Current	119.6A	127.5A
Output Power Factor	0.8 leading to 0.8 lagging	
Grid Current THD	<3%	
DC Injection	<0.5%	
Grid Frequency Range	47~52 or 57~62 (optional)	
Efficiency		
Max. Efficiency	98.7%	
Euro Efficiency	98.7%	
Protection		
Integrated Protection	DC Reverse-Polarity Protection, AC Short Circuit Protection, AC Over-current Protection, Output Over-voltage Protection, Insulation Resistance Protection, Ground Fault Monitoring, Anti-islanding Protection, Temperature Protection, Integrated DC Switch, Remote software upload, Remote change of operating parameters, Surge protection DC Type II / AC Type II	
General Data		
Size (W x H x D)	700 x 575 x 297 mm	
Weight	60kg	
Running Temperature	-25°C~65°C	
Ingress Protection	IP65	
Noise Emission (Typical)	<55dB	
Cooling Concept	Smart cooling	
Standards		
Grid Connection Standard	CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11	
Safety EMC / Standard	IEC62109-1-2, EN61000-6-1, EN61000-6-3	

Three-Phase Grid-Tied Inverters

SUN-100K-G

This is the largest inverter that we currently produce, reaching 100 kW. Only 10 of these inverters are needed for a mega-Watt solar farm.

All this with an ultra-compact design, cool operation. It is an amazing investment for your system.



6 MPPT, max. efficiency up to 98.7%.



Wide output voltage range.



Zero export application,
VSG application.



Anti-PID function (optional).



String intelligent monitoring.

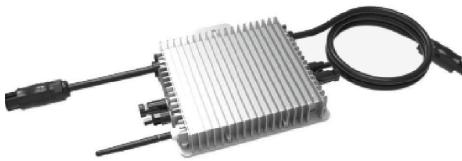
Three-Phase Grid-Tied Inverters

Model No.		SUN-100K-G
PV String Input Data		
Max. DC Input Power (W)		150000W
Start-up DC Input Voltage		250V
Max. DC Input Voltage		1000V
MPPT Operating Range		200~850V
Max. DC Input Current		40A+40A+40A+40A+40A+40A
Number of MPPT / Strings per MPPT		6 / 4
AC Output Data		
Rated Output Power		100000W
Max. Active Power		110000W
Rated AC Grid Voltage		3L/N/PE 380V/323V-418V, 400V/340V-440V
Rated Grid Frequency		50/60Hz (optional)
Operating Phase		Three-phase
Rated AC Grid Output Current		159.4A
Max. AC Output Current		175.4A
Output Power Factor		>0.99
Grid Current THD		<3%
DC Injection		<0.5%
Grid Frequency Range		47~52 or 57~62 (optional)
Efficiency		
Max. Efficiency		98.7%
Euro Efficiency		98.3%
Protection		
Integrated Protection		DC Reverse-Polarity Protection, AC Short Circuit Protection, AC Over-current Protection, Output Over-voltage Protection, Insulation Resistance Protection, Ground Fault Monitoring, Anti-Islanding Protection, Temperature Protection, Integrated DC Switch, Remote software upload, Remote change of operating parameters, Surge protection DC Type II / AC Type II
General Data		
Size (W x H x D)		838 x 568 x 323 mm
Weight		73.7kg
Running Temperature		-25°C~65°C
Ingress Protection		IP65
Noise Emission (Typical)		<55dB
Cooling Concept		Smart cooling
Standards		
Grid Connection Standard		CEI 0-21, VDE-AR-N 4105, NRS 097, IEC 62116, IEC 61727, G99, G98, VDE 0126-1-1, RD 1699, C10-11
Safety EMC / Standard		IEC62109-1-2, EN61000-6-1, EN61000-6-3

Micro Inverters

SUN600G3 / SUN800G3 / SUN1000G3

Ranging from 600W to 1000W these units have 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.



Model	SUN600G3	SUN800G3	SUN1000G3
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 included.

Micro Inverters

SUN1600G3 / SUN2000G3

Our higher power micro-inverters, are perfect for applications with multiple panels. They feature rapid shutdown, high efficiency, great power factor, and low power consumption at night. In addition, they have 4 MPPT trackers, which allow the connection of multiple modules. All this without any external communication device.



Model	SUN1300G3	SUN1600G3	SUN1800G3	SUN2000G3
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		50 / 60Hz		
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 included.

POWER BANKS

Power Bank 300XL



The PB 300 XL is a complete off-grid solution that contains all the constituent parts of a solar power system within its weatherproof casing. The design is so simple that the user could quickly set up a simple solar power system to provide AC for devices with power up to 300W.

In the casing, there is a charge controller, a storage bank of lithium-ion batteries, a DC-to-AC inverter, and a logic program that manages the whole system. All that is visible on the outside is the cable that takes the DC power from the solar panels and AC power outlet.

Powering TVs, computers, lights, fans, and any other utility within its operating limits. The unit can power a mixed load with power up to 300W and battery storage of about 1000Wh. In addition to that, it is equipped with temperature control and overload protection. The PB 300 XL can operate at any time of the day and can be set to 'automatic' mode, in which it operates only at night or when power is required. It can either operate 24hrs or be set in the UPS mode, where it operates only at night or where power cuts out.

Power Bank 300XL

What the Kit Contains:

- Two solar panels.
- Cables and connectors.
- 300W inverter 230V output.
- Lithium battery digital charge controller.
- Digital voltage meter.
- User resettable overload fuse.
- Built-in 300W MPPT charge controller.
- Solar isolator switch.
- Battery isolator switch.
- Warranty included.

Length: 105.0cm **Width:** 70.0cm **Height:** 24.0cm

Model	PB 300 XL
Maximum Recommended PV Power	300W
Minimum PV Input Voltage	35V
Maximum PV Input Voltage	60V
Charge Controller Type	MPPT
Output Voltage	220Va.c
Output Power	300W
Connection Type	Sunsynk / MC4
Operating Temperature	-20 to +50 °C
Weatherproof	IP45
Efficiency	Peak efficiency > 90%
Solar Panels	Pmax 200W
Batteries	2 x 25.2V, 17.6Ah, lithium-ion cells, wire AWG 16 x Lmin 300 mm with shrinkable insulation tube
Minimum Wh of the Batteries Pack	443.52Wh
Approvals	CE, ROSH, MDS

Power Bank 1000XL



The PB 1000 XL is a higher capacity system when compared to the PB 300 XL. It is also an off-grid power solution that contains all the constituent parts of a solar power system within its weatherproof casing. Everything you need in a single box.

The design is straightforward and a new owner can quickly understand and set up the power bank and obtain AC power for a load not exceeding 1000W. The system also has the capability to output 24v DC along with the 230v AC output.

Similar to the PB 300 XL, it can operate at any time of the day and be set to an 'automatic' mode, in which it operates only at night or when power is required. It can either operate 24hrs or be set in the UPS mode, where it operates only at night or where power cuts out.

Power Bank 1000XL

What the Kit Contains:

- Four solar panels.
- Cables and connectors.
- 1000W inverter 230v AC / 24v DC output.
- Lithium battery digital charge controller.
- Digital voltage meter.
- User resettable overload fuse.
- Built-in 1000W MPPT charge controller.
- Solar isolator switch.
- Battery isolator switch.
- Warranty included.

Length: 125.0cm **Width:** 70.0cm **Height:** 33.0cm

Model	PB 1000 XL
Maximum Recommended PV Power	500W
Minimum PV Input Voltage	35V
Maximum PV Input Voltage	60V
Charge Controller Type	MPPT
Output Voltage	220Va.c
Output Power	1000W
Connection Type	Sunsynk / MC4
Operating Temperature	-20 to +50 °C
Weatherproof	IP45
Efficiency	Peak efficiency > 90%
Solar Panels	Pmax 500W
Batteries	4 x 25.2V, 17.6Ah, lithium-ion cells, wire AWG 16 x Lmin 300 mm with shrinkable insulation tube
Minimum Wh of the Batteries Pack	443.52Wh
Approvals	CE, ROSH, MDS

Lifelynk Inverter

The Lifelynk Hybrid Inverter is a new addition to the Sunsunk range. Value-engineered with customers residing in domestic premises in mind. A 3.6kW model that can easily slot into an average sized system. The built in 2.5kwh battery pack makes this the perfect all-in-one solution for smaller storage applications.

The Hybrid Inverter is a really useful addition to any power generation system as it can take input DC power from wind turbine, solar panels and generator and AC power from the mains grid.

The inverter can measure and store the power in an attached battery pack for use later when the tariff for mains power is at its most expensive or when there is a reduction in power supply from other sources. Built-in programming will balance the amount of power stored in the battery against the demands of the connected appliances (the load).



Length: 70.5cm **Width:** 18.2cm **Height:** 54.2cm

Model		Lifelynk Hybrid Inverter
PV Input Data		
Max. PV Input Voltage		500V
Max. PV Current		10A
Max. PV Isc		12A
AC Output / Input Data		
Maximum Input Power		4000W
Nominal Input / Output Power		3600W
Max. Output Apparent Power		3960VA
Nominal Voltage		230V _{a.c}
Max. Input / Output Current		18A
Nominal Frequency		50Hz
Power Factor Range		0.8 leading ~ 0.8 lagging
Standalone Data		
Nominal Output Power		3600W
Nominal Output AC Voltage		230VAC
Nominal AC Frequency		50Hz
Battery Data		
Battery Voltage Range		40V ~ 59V
Max. Charge. / Discharge. Current		90A
Ingress Protection		IP20
Protective Class		Class I
Operating Temperature Range		-25°C ~ +60°C (
FW Version		VerX1234(DSP), Slave MCU(VER1.1), LCD MCU(VER6.2)

Lifelynk Battery (Set of 5)



Length: 24.5cm **Width:** 19.0cm **Height:** 57.0cm

ACCESSORIES

Meter & Mounting Accessories



Meter



Long Cable Set



Medium Cable Set



Short Cable Set

Meter & Mounting Accessories



Wall Mounting



C100 Standing Installation



C300 Quick Fix Set



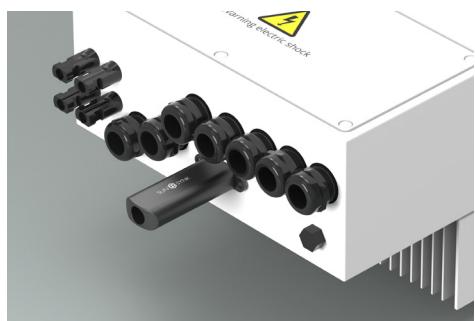
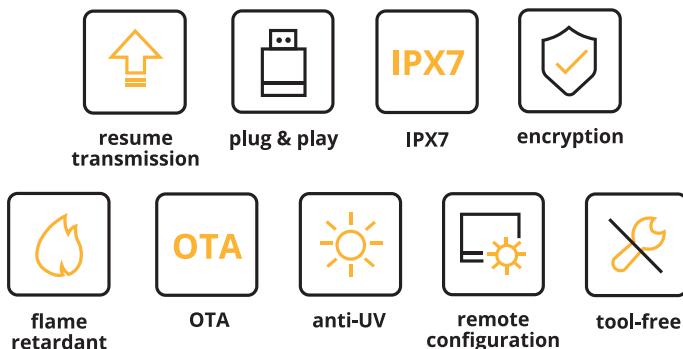
Connectors

Data Logger & Sunsynk Connect

The Sunsynk Data Logger & Sunsynk Connect have been completely developed to help you get the most out of your Sunsynk Inverter. It has been specially tailored for the customers and installers.

The Sunsynk Data Logger has been manufactured to the highest standards. It is IPX7 rated, flame retardant, anti UV and encrypted to have complete view and control of the installed energy generation and storage system, making it ideal for most indoor or outdoor applications.

Using Sunsynk Connect with your Sunsynk Data Logger gives you complete control of your system from anywhere in the world, provided that you have a stable internet connection.





Complete control over your Hybrid Inverter. Using our data logger gives you complete control over your hybrid inverter. You will gain access to features that cannot be accessed via the inverter control panel, such as the update / upgrade feature to update the inverter operating system yourself.

Change all settings remotely. Our data logger allows you to change and edit all settings remotely from anywhere in the world, provided that you have an Internet connection.

Brand new app for PC, IOS and Android devices. We have designed and developed our very own app which has been specially tailored for the customer and installer.

Real-time monitoring. The majority of our app works in real-time including any changes that you make will instantly update on your inverter.

Fully Integrated with Octopus Agile. Our app is fully integrated with Octopus Agile, with this information you can set your charge / discharge price's and the system will automatically monitor the current tariff and amend the charge / discharge according to your setup.

Reporting. Generate custom reports and graphs to help you monitor and understand how your system is working and where you are saving money.

Recommended Settings. Using the settings feature you already have a head start on your installation. Once your inverter has been fitted, you can select from the list of recommended settings and import it straight to your inverter. Installers can also export settings from an inverter and upload to another one to cut down on their installation time.

Live stats and monitoring. You have access to multiple stats including live monitoring and reporting. Using this app allows you to see peaks in your energy usage, you can then customize your system to work around this to help you save money on your electricity bills.



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