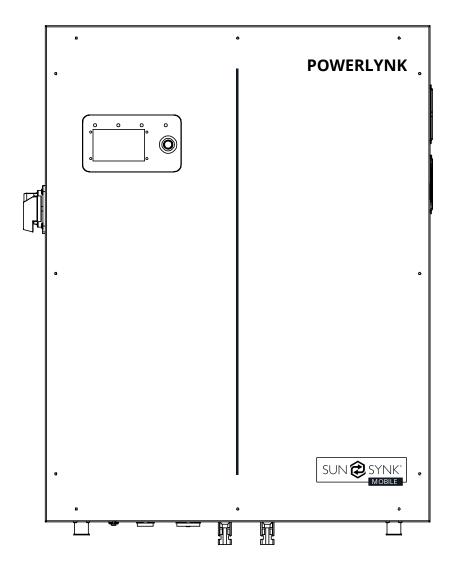


POWERLYNK X - SM3.6kWPL



USER MANUAL SA

www.sunsynkmobile.com / sales@sunsynkmobile.com



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SAFETY

General Safety Information

- This device should only be used in accordance with the instructions within this manual and in compliance with local, regional and national laws and regulations. Only allow this device to be installed, operated, maintained or repaired by other person(s) who have also read and understood this manual. Ensure the manual is included with this device should it be passed to a third party.
- **DO NOT** allow minors, untrained personnel, or person(s) suffering from a physical or mental impairment that would affect their ability to follow this manual, install, maintain or repair this device.
- Any untrained personnel who might get near this device while it is in operation MUST be informed that it is dangerous and instructed carefully on how to avoid injury.

Safety Instructions



WARNING

HIGH LIFE RISK DUE TO FIRE OR ELECTROCUTION.

The Powerlynk X can only be installed by a qualified licensed electrical contractor. This is not a DIY product.

Ensure to follow the safety warnings listed below:

- Be sure to read this manual thoroughly before installation.
- Do not attempt to install the inverter by yourself. Installation work must be carried out in compliance with national wiring standards and by suitably qualified personnel only.
- Do not turn on the power until all installation work is complete.
- Do not disassemble the inverter. If you need to repair or maintenance, contact a professional service centre.
- Always use an individual power supply line protected by a circuit breaker and operating on all wires with a distance between contacts of at least 3mm for this unit.
- The unit must be correctly grounded and the supply line must be equipped with a suitable breaker and RCD to protect people.
- Disconnect all wires before performing any maintenance or cleaning to reduce the risk of electric shock.
- The unit is not explosion-proof, so it should not be installed in an explosive atmosphere.
- Never touch electrical components immediately after the power supply has been turned off since the system can still have residual energy, so electric shock may occur. Therefore, after turning off the power, always wait 5 minutes before touching electrical components.
- This unit contains no user-serviceable parts. Always consult an authorised contractor for repairs.



Symbols in the Manual



This symbol indicates information that if ignored, could result in personal injury, physical damage or even death due to incorrect handling.



If this label is situated next to the MC4 connections it indicates that the voltage must be equal across both sets of MC4 connections.

If this label is situated next to the positive and negative battery connections it indicates that for paralleling, only Sunsynk batteries are recommended.

Symbols in the Product

	Risk of burn.		Keep the equipment well-ventilated.
S _{5min}	Risk of electric shock. DO NOT touch the terminal or remove the shell within 5 minutes after discon- necting all power.	UK CA	The UKCA marking is used for products placed on the market in Great Britain (England, Scotland and Wales). The UKCA marking applies to most products for which the CE marking could be used.
	This product's batteries contain an explosive, self-reactive material that could blow up when heated.		Do not disassemble or alter the battery in any way. Do not strike or puncture the battery.
	The Battery is heavy and can cause injury if not handled safely.		ONLY qualified personnel should install or perform maintenance work on the units.
	Be careful when touching the inverter! It is an electrical product with risk of electric shock and heating.		Warranty Void if Seal is Broken.
	Do not place near open fire or incinerate. Do not use near heaters or hot temperature sources.		Keep the product out of reach of children!
	Do not stand on.		Avoid unsuitable shoes for installing and operating the inverter.
	Do not step or put any objects onto the battery.	1 /1/	Do not drop, deform, or impact the battery.
$\overline{}$,	$\overline{}$	



Three Phase.

Single Phase.



Protective Conductor Terminal or Earth Ground Terminal.



Rechargeable.



Do not submerge the battery in water or expose it to moisture or liquid.



Keep out of reach of children, animals, and insects.



Do not expose the product to sunlight.



Inverter DC to AC.



Li-ion Battery.



Net Weight in Kilograms.



BATTERY INPUT

Battery Discharge Voltage, Battery Discharge Current, Input Voltage Type, Battery Discharge Power.



PV INPUT

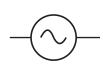
PV Input Voltage, Number of MPPT's, MPPT Input Current & Max PV ISC.



Direct Current.



Indicates that this product is recyclable.



AC OUTPUT

Output Voltage, Input Voltage Type, Ac Output Rated Current, Max AC Current, Output Frequency, Max AC ISC, Power Factor & AC Output Rated Power.



CONTINUOUS OUTPUT CURRENT

Maximum Continuous Output Current, Output Frequency and Voltage, & AUX (programmable AC output on battery SOC).



Charging.



Discharging.



Follow the indicated temperatures.



TEMPERATURE

Ambient, Min & Max.



MANUAL DOWNLOAD

Download the latest version of the instruction manual by scanning the QR code.



WARRANTY REGISTRATION

Scan the QR code to access our website and sign up for the manufacturer's warranty.



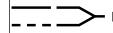
Do not dispose the device, accessories, and packaging with regular waste. Follow local ordinances or contact the manufacturer for disposal guidance.



Refer to the operating instructions. Contact the supplier within 24 hours if there is anything wrong. In case of leakage contact with eyes or skin, immediately clean with water and seek help from a doctor.



CE mark is attached to the solar inverter to verify that the unit follows the provisions of the European Low Voltage and EMC Directives.



Max. PV input current.



Product Disposal

DO NOT dispose of this product with domestic waste!

Electrical devices should be disposed of in accordance with regional directives on electronic and / or electronic-waste disposal. In case of further questions, please consult your supplier. In some cases, the supplier can take care of disposal.

PRODUCT INTRODUCTION

The Powerlynk X 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, mains power (grid) and generators, and then effectively storing and releasing power as and when utilities require.

INTERACTIVE

- Easy and simple to understand LCD display.
- Supporting Wi-Fi or GSM monitoring.
- Built-in MPPT trackers.
- Smart settable 3-stage MPPT charging for optimised battery performance.

COMPATIBLE

- Compatible with main electrical grid voltages.
- 230V single-phase, pure sine wave inverter.

CONFIGURABLE

- Fully programmable controller.
- Programmable supply priority for battery or grid.
- Programmable multiple operation modes: on-grid / off-grid & UPS.
- Configurable battery charging current / voltage based on the application.

SECURE

- Overload / over-temperature / short-circuit protection.
- Smart battery charger design for optimized battery protection.
- Limiting function installed to prevent excess power overflow to grid.

APPLICATIONS

- Power shedding (home / office / factory).
- UPS (Uninterrupted Power Supply).
- Remote locations with solar.
- Building sites.
- Telecommunication.



BOX CONTENTS

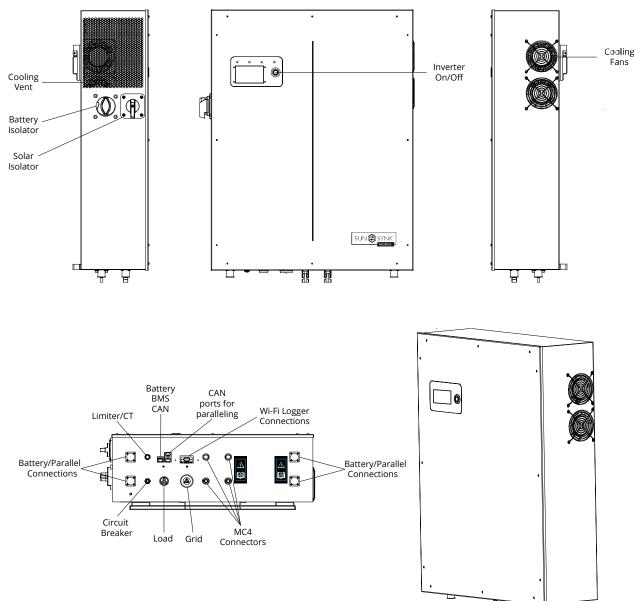
This box contains:

- Powerlynk X (main unit)
- Screw pack
- CT Coil (2 pin AERO female connector) (3m cable)
- 2 x MC4 connectors

- Wall mounting bracket
- Data logger (Sunsynk Wi-Fi)
- 1x3 pin AC Load connector (female)
- 1x3 pin AC Grid connector (male)

TECHNICAL SPECIFICATION

- Pure sine wave inverter with a maximum input power of 4.5kW.
- High nominal output power of 3.6 kW that can run several appliances.
- With batteries, the power capacity is 3840Wh.
- MPPT charge controller feature.
- Bi-directional inverter that can rapidly charge its internal batteries in just one hour.

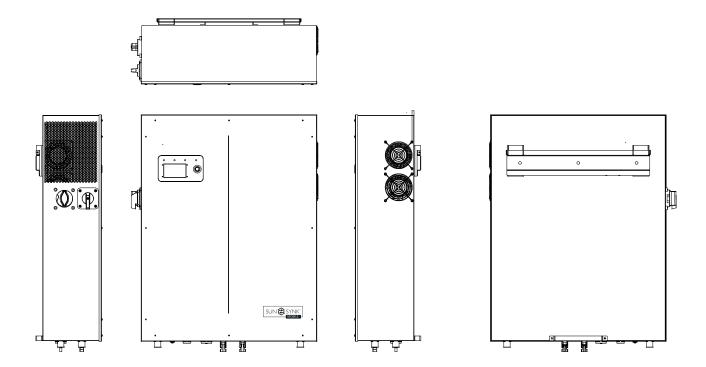




Model	Powerlynk X	
PV Input Data		
Max. PV Power	4500W	
Max. PV Input Voltage	500V	
MPPT Voltage Range	120-450V	
Start-up Voltage	150V	
Max. PV Current	12A (total current of the two MC4 sets combined)	
AC Output / Input Data		
Maximum Input Power	3600W	
Nominal Input / Output Power	3600W	
Max. Input / Output Apparent Power	3600VA	
Nominal Voltage	230VAC	
Max. Input / Output Current	16A	
Max. Bypass Current	40A	
Nominal Frequency	50Hz	
Power Factor Range	0.8 Leading ~ 0.8 Lagging	
Standalone Data		
Nominal Output Power	3600W	
Nominal Output AC Voltage	230VAC (Configurable)	
Nominal Output AC Frequency	50Hz (Configurable)	
Output THD (Resistor load)	<3%	
Battery Data		
Battery Voltage Range	40V~58V	
Max. Charging Current / Discharging Current	60A/80A	
Battery Type	LiFePO4	
Power of Each Battery	3840Wh	
Number of Batteries	1 (Installed)	
Ingress Protection	IP20	
Protective Class	Class I	
Efficiency		
Max. Efficiency	97.6%	
Max. Battery to Load Efficiency	94.0%	
Europe Efficiency	97.0%	
MPPT Efficiency	99.9%	
Operating Temperature Ranges		
Inverter	-25°C ~ +60°C	
Battery Charging	0°C ~ +45°C	
Battery Discharging	-20°C ~ +50°C	



Selecting the Mounting Area



DO NOT install in the following areas:

- Areas with high salt content, such as the marine environment. It will deteriorate the metal parts and possibly lead to water / dampness penetrating the unit.
- Areas filled with mineral oil or containing splashed oil or steam such as in kitchens. This will deteriorate
 plastic parts of the unit, causing those parts to fail or allow water /damp to penetrate the unit.
- Areas that generate substances that adversely affect the equipment, such as sulphuric gas, chlorine gas, acid, or alkali. These can cause the copper pipes and brazed joints to corrode and fail to conduct electricity reliably.
- Areas that can cause combustible gas to leak, which contains suspended carbon-fibre, flammable dust or volatile inflammability such as paint thinner or gasoline.
- Areas where there may be gas leaks and where gas may settle around the unit, as this is a fire risk.
- Areas where animals may urinate on the unit or ammonia may be generated.
- High altitude areas (over 4000 metres above sea level).
- Environments where precipitation or humidity are above 95%.
- Areas where the air circulation is too low.

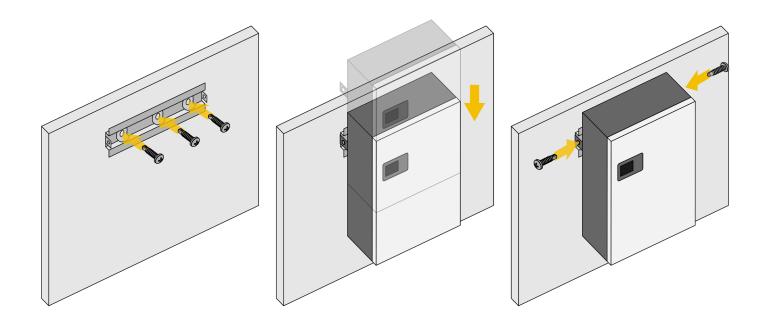


ALSO CONSIDER:

- Installing the indoor unit, outdoor unit, power supply cable, transmission cable and remote control cable at least 1 metre away from any television or radio receiver. This will prevent TV reception interference or radio noise. This will also prevent radio signal interference from external units that might interfere with the Wi-Fi or GSM monitoring.
- If children may approach the unit, take preventive measures so that they cannot reach and touch the unit.
- Install the indoor unit on the wall where the height from the floor is higher than 1600mm.
- For proper heat dissipation, allow a clearance of approximately 500mm to the side, 500mm above and below the unit and 1000mm to the front of the unit.

Mounting the Inverter

- Select a location that provides adequate support for the weight of the inverter.
- Install this inverter so that the LCD screen is eye-level for easy operation.
- An appropriate ambient temperature lies between -20 ~ 60°C for optimal operation. Battery charging temperature range lies between 0°C ~ 45°C.
- Ensure other objects and surfaces are outside of the recommended spaces (500mm each side / above and below / front) to guarantee heat dissipation and easy access to the wiring / cabling.



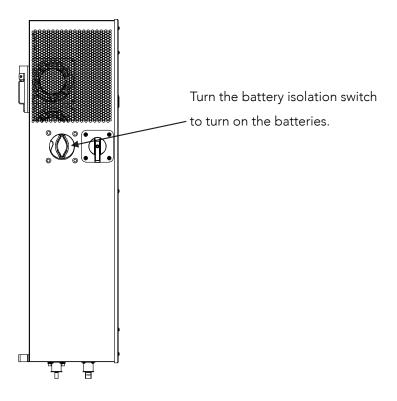




Risk of Injury (Heavy Object)

Remember that this inverter is heavy, so users must be careful in handling the unit during installation especially when mounting or removing from a wall.

Turning on the Batteries



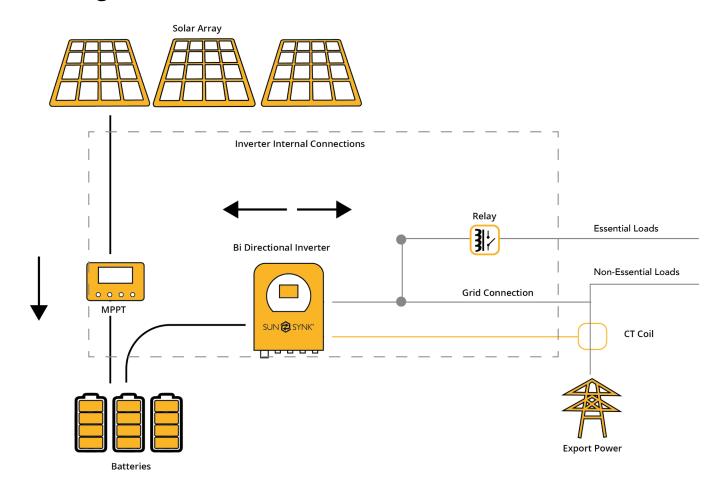


CAUTION

Setting a power limit higher than maximum will damage the battery fuse.



Flow Diagram



Connecting to the Mains / Grid

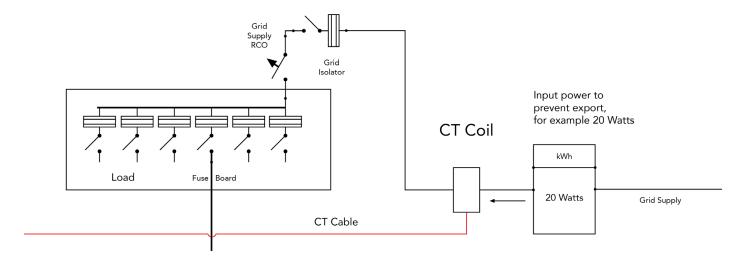
- 1. Connect the Powerlynk X Hybrid Inverter to the electrical grid via the *grid ports*, using a suitable RCD and a 20A fuse on the consumer board.
- 2. Now, using a 3mm cable, connect only the essential loads to the *load ports* (output) to a secondary consumer board, considering the maximum limit of 3.6 kW.
- 3. Ensure the main consumer unit and the secondary consumer unit are correctly grounded to the Powerlynk X.

Wiring the PV Panels

- The Powerlynk X Hybrid Inverter has an MPPT controller with a maximum input current of 12A.
- Please do not connect two PV sets with different voltages to the MC4 connectors. This can damage the PV set, causing the system to malfunction.
- Before connecting to PV modules, install a separate DC circuit breaker between the inverter and PV array.
- To avoid any malfunction, **DO NOT** connect any PV modules with possible current leakage to the inverter. For example, grounded PV modules will cause current leakage to the inverter.
- Also, the open-circuit voltage (Voc) of the PV modules does not exceed the maximum input voltage of the inverter. Also, the Voc of the PV array should be higher than the minimum starting voltage of the inverter.
- Connect the PV panels into the MC4 connectors.



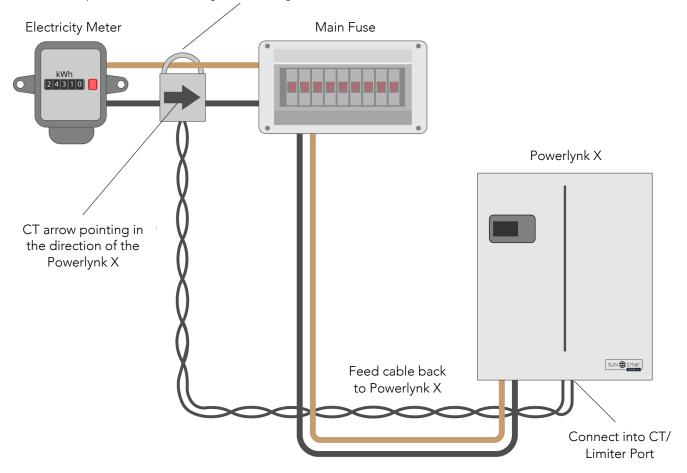
CT Coil and Load Power Settings



The CT coil is one of the most important parts of the Powerlynk X. This device reduces the power of the inverter to prevent feeding power to the grid. This is also known as zero export.

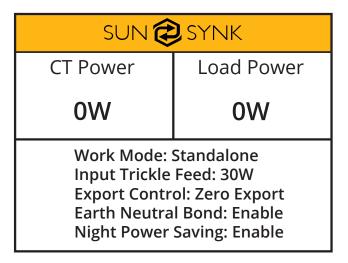
- Fit the coil (sensor) around the live cable on the main fuse feeding the building and run the cable back to the inverter. This cable can be extended up to an extra 10m using a similar cable.
- Connect the other end of the CT coil into the inverter terminals marked as CT coil.

Fit around positive cable feeding the building BETWEEN the meter and main fuse.





You can access the *CT Coil Screen* directly from the *Home Screen* by pressing the Home/Back button:



You can access the Internal Battery Pack page by pressing the Home/Back button again:



Internal Battery Pack

Capacity: 75Ah SOC: 64% Voltage: 53.2V Current: 32A

Charge Voltage Limit: 57.6V Discharge Voltage Limit: 45.0V Charge Current Limit: 37A Discharge Current Limit: 75A

Temp: 34.8°C Alarm: 0x0000

You can access the External Battery Pack page by pressing the Home/Back button again:

SUN SYNK

External Battery Pack

Capacity: 75Ah SOC: 65% Voltage: 53.4V Current: 30A

Charge Voltage Limit: 57.6V Discharge Voltage Limit: 45.0V Charge Current Limit: 37A Discharge Current Limit: 75A

Temp: 31.2°C Alarm: 0x0000



Parallel Operation

In order to connect Powerlynk inverters to operate in parallel, you need to set up the work mode configuration for each the inverter. Basically, you have to set which inverter will be the master and which will be the slaves, and then make the connections described in section "External Battery and Parallel Connections".

Basic Settings		
Set Time	15:16	
Set Date	19-05-2023	
Backlight	On	
Work Mode	Master	
SOC/Voltage	Voltage	
Factory Reset	No	

Basic Settings		
Set Time	15:16	
Set Date	19-05-2023	
Backlight	On	
Work Mode	Slave 02	
SOC/Voltage	Voltage	
Factory Reset	No	



WARNING

To ensure the proper functioning of the parallel operation, it is important first to establish the work mode for both the Master and Slave inverters and then make the necessary wiring connections.

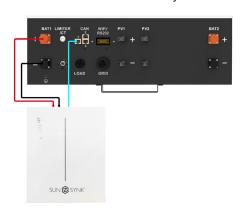
If you make the connection prior to changing the work mode, an F15 error will be displayed on the Fault Codes page. In the event of this error, please maintain the connection and proceed to the settings to modify the work mode as presented above, and wait approximately 3-4 minutes. After that, the device should return to its normal working condition, with the error cleared.

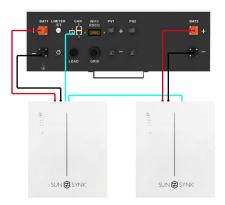


External Battery and Parallel Connections

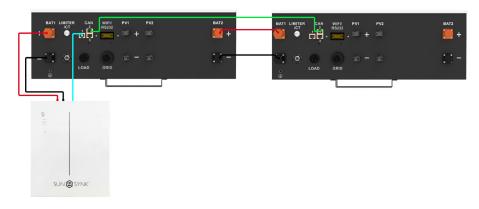
Inverter Unit: 1 External Battery Number: 1

Inverter Unit: 1 External Battery Number: 2

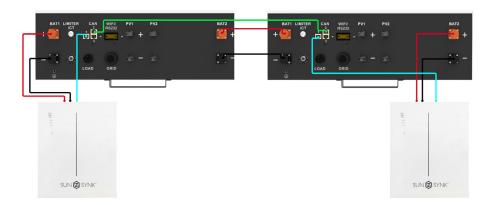




Inverter Unit: 2 External Battery Number: 1



Inverter Unit: 2 External Battery Number: 2

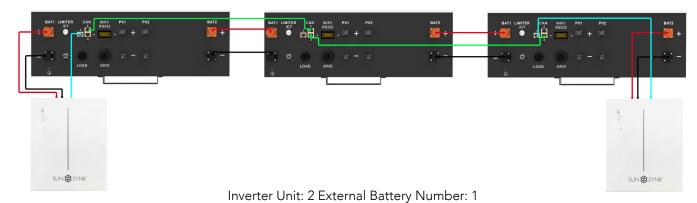


Inverter Unit: 3 External Battery Number: 1

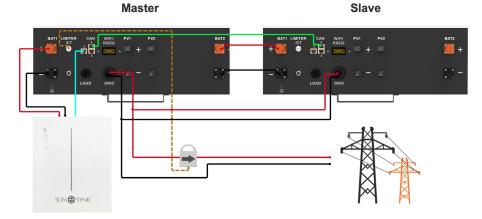




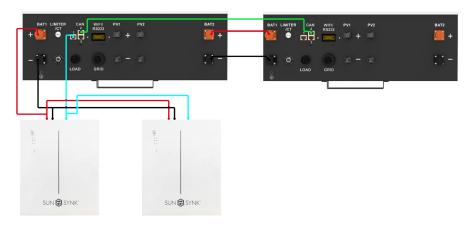
Inverter Unit: 3 External Battery Number: 2



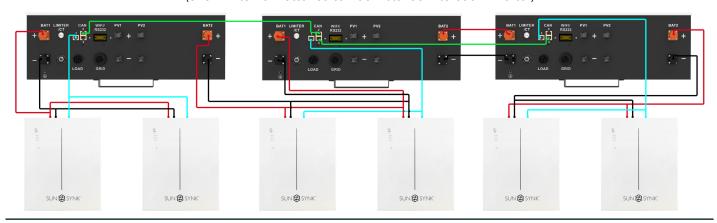
(Shows CT Coil Connection + Master&Slave)



Inverter Unit: 2 External Battery Number: 2 (Shows Batteries connected in parallel)



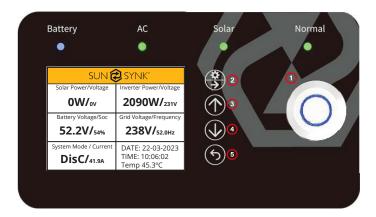
Inverter Unit: 3 External Battery Number: 6 (Show External Batteries can be installed into each inverter)





LCD DISPLAY SCREEN

The LCD display screen is situated on the front of the Powerlynk X, this is where you can control and operate the system.



- 1. Power to turn the system on / off.
- 2. Settings / Select to operate the settings menu & to select.
- **3. Up** to navigate up.
- 4. **Down** to navigate down.
- 5. Home / Back to go back to the home menu & to navigate backwards.

TYPE	INDICATION	DESCRIPTION
DATTEDY	GREEN	CHARGING
BATTERY	BLUE	DISCHARGING
4.6	GREEN	AC CONNECTED
AC	OFF	AC OFF
COLAR	GREEN	SOLAR ON
SOLAR	OFF	SOLAR OFF
	GREEN	INVERTER RUNNING
NORMAL	RED	SYSTEM FAULT
	OFF	INVERTER NOT RUNNING



FACTORY SETTINGS

Rattery	Settings		Default Setting	
	ery Cut Off	45.0V		
	Voltage		50.0V	
	narge Current		40A	
	om MAIN		YES	
Float Char	ge Voltage		56.0V	
Act	tive		ON	
System Co	nfiguration		Default Setting	
Maximum Disc	charge Current		70A	
Maximum Ba	ittery Voltage		56.0V	
Import Tri	ckle Feed		0030W	
Export	Control		Zero Export	
Earth Neu	utral Bond		Enable	
Night Pov	ver Saving	Enable		
Grid S	ettings		Default Setting	
Maximum (Grid Voltage		251V	
Minimum G	Grid Voltage		197V	
Maximum Gr	id Frequency		52.0HZ	
Minimum Gr	id Frequency		47.0HZ	
System C	Controller		Default Setting	
00:00	6:00	2000W	52.0V	Y
6:00	12:00	2000W	52.0V	Υ
12:00	18:00	2000W	52.0V	Y
18:00	23:59	2000W	52.0V	Υ

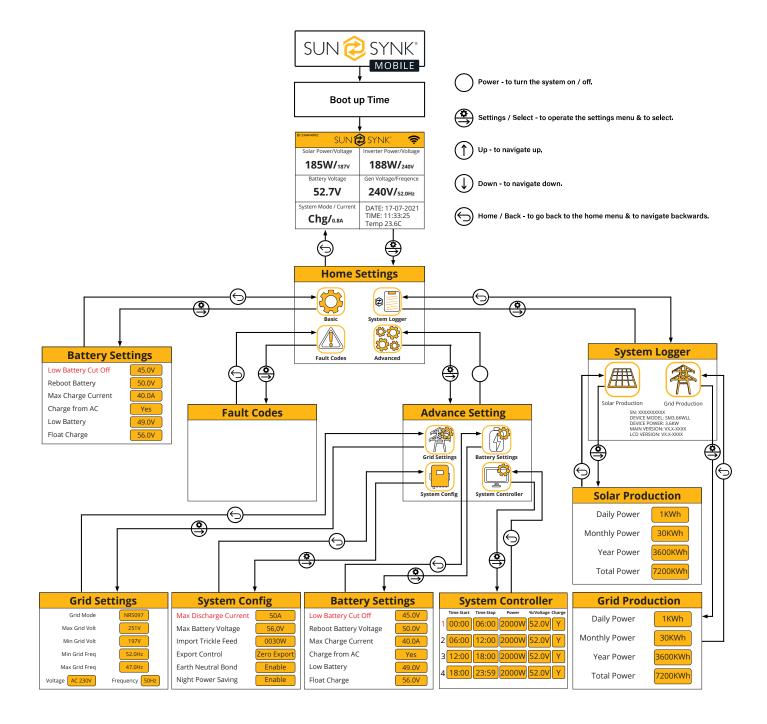
BATTERY COMPATIBILITY

The following batteries are compatible with all Sunsynk Mobile Lifelynk Inverters:

- SUN-BATT-5.32
- SUNSYNK-L5.1
- L051069-A



System Flow





Switching On / Off

Once the inverter has been correctly installed and the batteries are connected, press the on / off button (located on the front of the case) to turn on the system.

Home Screen

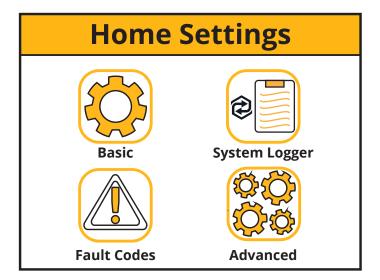
sun 🕏 synk®		
Solar Power/Voltage	Inverter Power/Voltage	
OW/ov	2090W/ _{231V}	
Battery Voltage/Soc	Grid Voltage/Frequency	
52.2V/ _{54%}	238V/ _{52.0Hz}	
System Mode / Current DisC/41.9A	DATE: 22-03-2023 TIME: 10:06:02 Temp 45.3°C	

What does this page display?	
Solar MPPT Input Power	
Battery Voltage	
System Status	
Inverter Current Power	
Grid Voltage and Frequency	
Date / Time	
What you can do from this page	
If you press the select button you can navigate to the basic setup menu	
If Sunsynk Connect has been connected, the WI-FI icon appears	
A constant of CT constant by the state of Parish by the state of	

Access the CT screen by pressing the Home/Back button



Home Settings



What does this page display?		
	Basic setting icon	
	System logger icon	
Fault codes icon		
	Advanced settings icon	

What you can do from this page

You can navigate through the functions by clicking on each icon

Basic Settings

Basic Settings		
Set Time	15:16	
Set Date	15-05-2023	
Backlight	On	
Work Mode	Standalone	
SOC/Voltage	SOC	
Factory Reset	No	

Basic Settings		
Set Time	15:16	
Set Date	15-05-2023	
Backlight	On	
Work Mode	Standalone	
SOC/Voltage	Voltage	
Factory Reset	No	

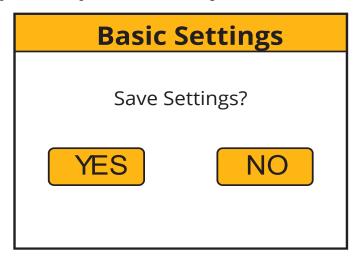
What does this page display?
Time
Date
Backlight on / off
Work Mode
SOC/Voltage
Pacat



What you can do from this page
Set the system's time
Set the system's date
Set backlight
Set the workmode
Set the system SOC/Voltage

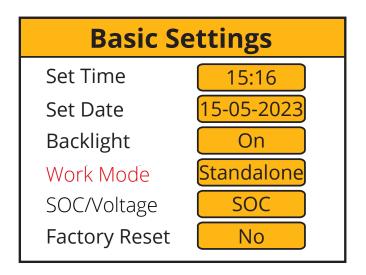
Reset to factory default settings

After changing the settings, do not forget to click save settings.



Work Mode Settings

Change the work mode settings via the "Basic Settings" page by pressing the "Work Mode" button. Then a password input page will be shown. The default password is "1234".







Work Mode Settings Standalone

Single-Phase Slave

Single-Phase Master

02

What does this page display?

The Work Mode selected

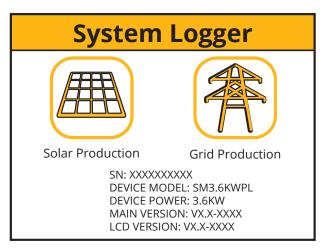
Single-Phase Master

Single-Phase Slave number

What you can do from this page

Change the number of Slave Inverters (maximum 15 slaves)

System Logger



Solar Production Daily Power 1KWh Monthly Power 30KWh Year Power 3600KWh **Total Power** 7200KWh

Grid Production	
Daily Power	1KWh
Monthly Power	30KWh
Year Power	3600KWh
Total Power	7200KWh

What does this page display?

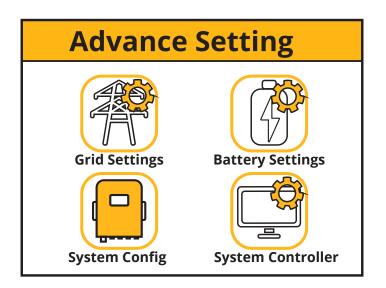
Solar production icon

Grid production icon



What you can do from this page
Daily solar power produced
Monthly solar power produced
Yearly solar power produced
Total solar power produced
Daily grid power used
Monthly grid power used
Yearly grid power used
Total grid power produced

Advance Settings



What does this page display?
Grid Settings page icon
System Configuration page icon
System Controller page icon
Battery Settings page icon
What you can do from this page

You can access the grid, system, inverter, and battery setting pages.



Grid Settings

Grid Settings	
Grid Mode	NRS097
Max Grid Volt	251V
Min Grid Volt	197V
Min Grid Freq	52.0Hz
Max Grid Freq	47.0Hz
Voltage AC 230V Fr	requency 50Hz

What does this page display?
Grid Mode
Maximum grid voltage allowed
Minimum grid voltage allowed
Maximum grid frequency
Minimum grid frequency

Battery Settings

Battery Settings	
Low Battery Cut Off	10%
Reboot Battery	20%
Max Charge Current	40A
Charge from AC	Yes
Low Battery	15%
Float Charge	56.0V

Battery Settings	
Low Battery Cut Off	45.0V
Reboot Battery	50.0V
Max Charge Current	40.0A
Charge from AC	Yes
Low Battery	49.0V
Float Charge	56.0V

What does this page display?	
 Low battery SOC/Voltage	
 Reboot SOC/Voltage	
Maximum charge current	
Charge from the mains	
Low Battery SOC/Voltage	
 Float charge SOC/Voltage	



What you can do from this page

Set a low voltage cut-off for the batteries. Before setting this, please refer to the battery characteristics.

The reboot voltage is the voltage that the batteries must reach before the inverter switches on again.

Maximum charge is the maximum current that the system will provide to charge the batteries. This is normally rated at 0.5C, the battery's Ah (s) x 0.5. For example, if you have installed a 20Ah battery, then the maximum charge current should be set at 10A. The lower the setting, the longer the batteries will last.

If charge from the mains is set as YES the batteries will charge from the mains grid.

Float charge voltage must be set accordingly to the specifications of the battery used.

Set the Low Battery Voltage to set the point where Low power mode will take affect.

PLEASE NOTE

If the Charge from AC is set to No, the battery cannot be charged from AC GRID. Otherwise, the battery can be charged from AC GRID.

System Settings

System Config	
Max Discharge Current	70A
Max Battery Voltage	56.0V
Import Trickle Feed	030W
Export Control	Zero Export
Earth Neutral Bond	Enable
Night Power Saving	Enable

What does this page display?
Maximum discharge current
Maximum battery voltage
Input power to prevent export
Export Control
Earth bonding
Night Power Shaving
What you can do from this page
Set the maximum discharge current from the batteries.
Set the maximum voltage the batteries should be charged to.
Set the "Import Trickle Feed" from GRID, minimum 20W.
Set the "Export Control". Could be "UPS" and "Zero Export".
If Earth Neutral Bond is enabled, the relay will make and earth neutral bond on the load port of the inverter after the grid power fails. This is for earth leakage devices to function correctly on this island circuit.
The Night Power Saving can be set to "Enable" or "Disable".



Export Control

The Export Control can be set as "UPS" and "Zero Export".

1. "UPS"

When the "Export Control" is set to "UPS", the inverter will not export power to the home load via the "GRID" connector, just power the essential load that is connected to the "LOAD" connector. When the "Charge from Main" is set to "Yes", the inverter can be charged from the main AC and PV, and the charge time period can be set via the "System Controller" page.

In the "System Controller" page, when the "charge" option is set to "N", the inverter will not be charged by the main AC from "Start Time" to "Stop Time" in this time period. When the "Charge" option is set to "Y", the inverter will be charged by the main AC from "Start Time" to "Stop Time" to "Vol" setting value in this time period.

2. "Zero Export"

When the "Export Control" is set to "Zero Export", the inverter will export power to the home load via the "GRID" connector and power the essential load that connected to the "LOAD" connector at the same time. The export power to the home load will not exceed the total power of the home load, so there is no exceeded power feed out, this is called "Zero Export". A CT (Limit) must be connected to the inverter in this work mode.

Charge From Main

The Charge from Main can be set to "Yes" or "No". When it is set to "Yes", the inverter can be charged by the main AC and PV. When it be set to "No", the inverter will just can be charged by PV, and can't be charged by the main AC.

Charge from AC Yes Charge from AC

No

When the "Charge from Main" is set to "Yes", the inverter can be charged from the main AC and PV, and the charge time period can be set via the "System Controller" page.

In the "System Controller" page, when the "charge" option is set to "N", the inverter will not be charged by the main AC from "Start Time" to "Stop Time" in this time period. When the "Charge" option is set to "Y", the inverter will be charged by the main AC from "Start Time to "Stop Time" till to the "Vol" setting value in this time period.

Earth Neutral Bond

The Earth Neutral Bond can be set to "Enable" or "Disable". When is set to "Enable", this will provide the earth is connected to GRID earth when GRID has power. When it is set to "Disable", this function will not be available.

Earth Neutral Bond

Enable

Earth Neutral Bond

Disable



Night Power Saving

The Night Power Saving can be set to "Enable" or "Disable". When is set to "Enable", the Night Power Saving function will be available. When it is set to "Disable", this function will not be available.

PLEASE NOTE

"Night Power Saving" just can work when the "Charge from AC" is set to "No" and there is no PV power input.

The Night Power Saving working mode is described as follow:

- 1. First, you need set the "Low Battery Voltage" value at the "Battery Settings" page of the LCD display.
- 2. Then you need to set the "Night Power Saving" time periods and the value of "Vol" on the "System Controller" page.

There are 4 time periods, the inverter will discharge the battery till the battery voltage is equal to the value set at "Vol" section, if the values set are smaller than the value that set at "Low Battery Voltage", when the battery voltage is equal to this value of "Low Battery Voltage", then the inverter will stop its DC to DC converting, and the essential load connected to the "LOAD" connector will just be powered by the main AC. Because the most standby power consumption of the inverter is caused by the inverter's DC to DC converting, so when the inverter stops its DC to DC converting, the standby power of the inverter will be much lower, this can save a lot of power consumption.

PLEASE NOTE

Please remember that when the inverter is working on the "Night Power Saving" state, when the main AC is off, the UPS function shift time will be longer, can't be immediate, it will take around 30 seconds.

When there is PV power input, then the inverter's DC to DC converting will work again, because without this converting, the batter packs can't be charged.



Setting Details

1. UPS Mode

This mode function is set, the inverter output is from the load only and will not export any power to the GRID even if it is connected. Set the Charge from AC by "Yes" and Export Control set by "UPS".

Battery Settings		
Low Battery Cut Off	45.0V	
Reboot Battery	50.0V	
Max Charge Current	40.0A	
Charge from AC	Yes	
Low Battery	49.0V	
Float Charge	56.0V	

System Config		
Max Discharge Current	70A	
Max Battery Voltage	56.0V	
Import Trickle Feed	030W	
Export Control	UPS	
Earth Neutral Bond	Enable	
Night Power Saving	Enable	

Set the time to keep to charge the battery at the %voltage. If PV is not connected, suggest to set %voltage to 56V and set all time range to Y. Start to charge battery time by selecting the Charge Y or N

System Controller				
	Time Start	Time Stop	Power	%/Voltage Charge
1	00:00	06:00	2000W	100% Y
2	06:00	12:00	2000W	100% Y
3	12:00	18:00	2000W	100% Y
4	18:00	23:59	2000W	100% Y

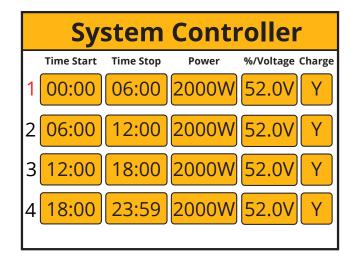


2. Zero Export Mode

This mode function allows the inverter to export power to the home load via the "GRID" connector and power the essential load connected to the "LOAD" connector simultaneously. When zero export is ON, the inverter will export energy to the grid. The maximum power will not exceed the total load power of the grid.

Battery Settings		
Low Battery Cut Off	45.0V	
Reboot Battery	50.0V	
Max Charge Current	40.0A	
Charge from AC	Yes	
Low Battery	49.0V	
Float Charge	56.0V	

System Config			
Max Discharge Current	70A		
Max Battery Voltage	56.0V		
Import Trickle Feed	030W		
Export Control	Zero Export		
Earth Neutral Bond	Enable		
Night Power Saving	Enable		





3. Night Power Saving

When there is no PV, and the battery is not charged from AC, the output power will be to the load from the battery. When the battery level is equal to the battery set in the system control in that time period, and it is set to Y, then the inverter will run at a low power level from GRID to maintain the battery level is not dropped to shut down the inverter. The load power consumption will come from GRID. The setting will be as below.

Battery Settings		
Low Battery Cut Off	45.0V	
Reboot Battery	50.0V	
Max Charge Current	40.0A	
Charge from AC	No	
Low Battery	47.0V	
Float Charge	56.0V	

System Config			
Max Discharge Current	70A		
Max Battery Voltage	56.0V		
Import Trickle Feed	030W		
Export Control	Export		
Earth Neutral Bond	Enable		
Night Power Saving	Enable		

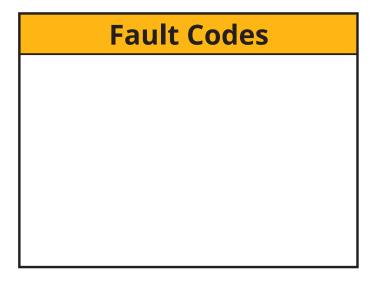
System Controller				
Tin	ne Start	Time Stop	Power	%/Voltage Charge
1 00	0:00	06:00	2000W	47V Y
2 00	6:00	12:00	2000W	47V Y
3 12	2:00	18:00	2000W	47V Y
4 18	8:00	23:59	2000W	47V Y

If the low battery voltage is set higher, the %voltage will be placed higher accordingly.



Fault Codes

To check fault codes, click on the Fault Codes icon on the Home Settings menu.



If any of the fault messages listed in the following table appear on your inverter and the fault has not been removed after restarting, please contact your local vendor or service centre. The following information is required:

- 1. Inverter serial number.
- 2. Distributor or service centre of the inverter.
- 3. On-grid power generation date.
- 4. The problem description (including the *fault code* and *indicator status* displayed on the LCD) is as detailed as possible.
- 5. Your contact information.

Error Code	Display Error	Potential Method for Measurement and Fix
F07	DC/DC_Softsart_Fault	Startup problems, replace the control board, if not, remove the motherboard to measure the MOS tube is in good condition.
F10	AuxPowerBoard_Failure	1. Power supply failure, update power board.
F13	Working mode change	Inverter work mode changed:1. Reset the inverter.2. Seek help from Sunsynk Mobile.
F15	Short circuit protecting	 Short circuit fault: Maintain the connection. Proceed to the settings to modify the work mode. Wait approximately 3-4 minutes. The device should return to its normal working condition, with the error cleared. Seek help from Sunsynk Mobile.
F18	AC over current fault or hardware	 AC slide over current fault: 1. Check if the backup load power is within the range of the inverter. 2. Restart and check if it is normal.



Error Code	Display Error	Potential Method for Measurement and Fix
F20	DC over current fault of the hardware	DC over current fault: 1. Check PV module and battery connections. 2. Reset the system.
F23	AC leakage current is trans over current	Leakage current fault: 1. Check the PV module and inverter cables. 2. You may have a faulty PV panel (earth short). 3. Restart inverter.
F24	DC insulation impedance failure	 PV isolation resistance is too low: Check if the connection of PV panels and inverter are firmly connected. Check if the earth bond cable on inverters is connected to the ground.
F26	The bus bar is unbalanced	 Please wait 5 minutes to see if it returns to normal. Fully reset the inverter.
F29	ECAN communicate	 When in parallel mode, check the parallel communication cable connection and hybrid communication address settings. During the parallel system startup period, inverters will report F29. When all inverters are in ON status, it will disappear automatically; If the fault exists, please contact us for help.
F30	Load current exceeding	 Try tu reduce the load power. Seek help from Sunsynk Mobile.
F34	Over Load Protection	Reduce appliance power on LOAD side (system will auto-reboot in 2 minutes).
F35	No AC grid	 Check if the inverter's connected to the AC grid. Check if the RSCD had not tripped. Check if the switch and fuses between the inverter and grid are all switched on.
F37	Battery activation overcurrent	1. System will auto-reboot in 2 minutes.
F39	DC-DC over current	Push the power button of the inverter to restart it, system will auto-reboot in 2 minutes.
F40	DC over current	If the battery SOC shows 0, turn off the unit and restart it
F41	Parallel system stop	 Check the hybrid inverter working status. If there's 1pcs hybrid inverter is in OFF status, the other hybrid inverters may report F41 fault in parallel system. If the fault exists, please contact us for help.
F42	AC line low voltage	 Grid voltage fault: Check if the voltage is in the range of standard voltage in specification, this can be adjusted via the grid set up page. Check if grid cables are correctly connected.
F45	AC line HIGH voltage	1. Grid exceeds 251V, and the inverter switch is off 2. Grid exceeds 251V, and the inverter switch is on, but the battery is drained



Error Code	Display Error	Potential Method for Measurement and Fix	
F47	AC over frequency	 Grid voltage fault: 1. Check if the voltage is in the range of standard voltage in specification, this can be adjusted via the grid set up page. 2. Check if grid cables are correctly connected. 	
F48	AC lower frequency	Grid frequency out of range:1. Check if the frequency is in the range of specification.2. You may need to adjust the frequency on the grid set up page.	
F55	DC busbar voltage is high	User: External Battery Input voltage is high 1. Installer: check inverter's bus voltage might be too high. Observe the battery voltage value on the LCD (the value will be restored automatically if it is normal), if it is not normal for a long period, you have to check the control board or the voltage acquisition part of the motherboard.	
F56	DC bus bar voltage is too low	Battery low voltage: 1. Check if the battery voltage is too low. 2. If the battery voltage is too low use the PV or grid to charge the battery. 3. Check the battery BMS. Important: Especially with lithium batteries, ensure that the batteries Max. discharge current or power specification is the same or higher than the inverter specification.	
F61	Bus one shutdown	 Reset the inverter. Seek help from Sunsynk Mobile. 	
F62	DRMs0 stop	Reserved Error code	
F63	FAN Error	 A technician needs to check the internal fan wire or replace fan. Seek help from Sunsynk Mobile. 	
F64	Heat sink high-temperature failure	 Heat sink temperature is too high: 1. Check if the working environment temperature is too high. 2. Turn off the inverter for 30 minutes and restart. 	

COMMISSIONING

Startup / Shutdown Procedure

The inverter must be installed by a qualified / licensed electrical engineer in accordance to the countries wiring regulations.

Only after the engineer has completed the *earth bond*, RCD and earth leakage tests, check the solar panel Voc voltage (must not exceed 450V) and check the battery voltage. Then, the inverter can now be switched on.



Power On Sequence:

- 1. Switch on the battery breaker.
- Press the start button to on position.
- 3. Switch on AC.
- 4. Switch on the DC (PV isolator).

Shutdown Sequence:

- 1. Switch off the PV isolator.
- Switch off AC.
- 3. Press the start button to off position.
- 4. Switch off the battery isolator.

Information for Commissioning the Inverter

After you have successfully powered up the inverter, the inverter must be programmed and set up as per the programming feature above.

Check the <i>earth bond</i> on the solar panels.	Check the Voc does not exceed 450V.	Ensure both MPPTs are balanced.
Measure the supply voltage, check it matches the settings of the inverter.	If it falls out of the setting range it will cause the inverter to shut down and alarm.	See grid set up page.
Check the battery charge and discharge is within the C rating of the battery. Too high will damage the battery.		Check the battery BMS is communicating with the inverter.



This is the heart of the system, this controller everything.	Ensure you are familiar with this, if you fully understand the controller you will fully appreciate the capabilities of there inverter.	
Familiarise yourself with common fault codes.		

GFDI Fault

Before the inverter starts to connect to the grid, the inverter will first detect the impedance of PV + to ground, and the impedance of PV - to ground. If any of these impedance values is less than 33k, the inverter will not connect to the grid and will report an error F24 on its LCD.

MAINTENANCE

The inverter is low maintenance. However, it is important that at least twice a year (for dusty environments this may need to be carried out weekly) all the cooling fans and air ducts are cleaned and dust free.

Check if there are no fault codes and lithium battery communication is correct.

Weekly cleaning statement: suggest micromesh filters as an available option. Micro insects here are a real problem.



APPENDIX A

If an external residual current device (RCD) is used, a device of type (A / AC, etc) should be employed, with a tripping current of 30mA or higher.

Use of RCDs

Residual current devices (RCDs): An RCD dedicated for an IES may be used to meet the mechanical cable protection requirements and isolation requirements of BS 7671 for the cable from the switchboard to the IES. If an RCD is used, the RCD shall:

- 1. Disconnect all live conductors (including the actives and neutral).
- 2. Be of the type specified in the inverter manufacturer's instructions or as labelled on the inverter.

We recommend the use of an RCD on all circuits and sub circuits connected to the Sunsynk Mobile inverter. Residual current breaker with overcurrent protection (RCBO).

Earth-leakage protection class	Туре А	
Earth-leakage sensitivity	30mA	
Curve code	С	
Network type	AC	
Poles description	2P	
Earth-leakage protection time delay	Instantaneous	

For more information, training videos, software upgrades, help line or forum please refer to http://www.sunsynkmobile.com - Tech Support (Do not forget to register first on the website).







Email Us: sales@sunsynkmobile.com Website: www.sunsynkmobile.com

VAT Number: 4020296234

Address: Sunsynk UK Ltd. 17 Turnstone Business Park,

Mulberry Avenue, Widnes, Cheshire, WA8 0WN

Call Us: +27 10 100 3589