



Sunsynk Klik



USER MANUAL

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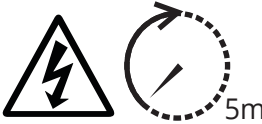
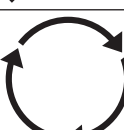
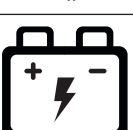
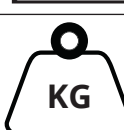
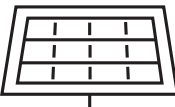
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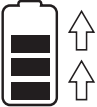
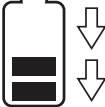
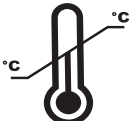
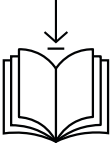
 **PLEASE RETAIN FOR
FUTURE REFERENCE**

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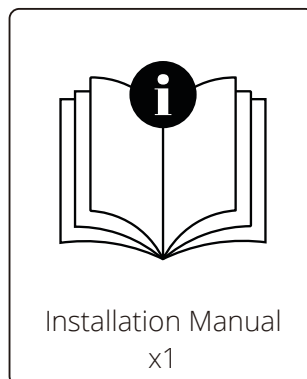
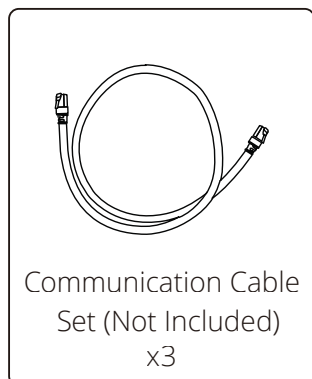
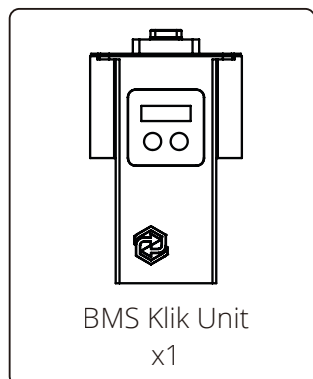
Symbols/Safety Signs

Symbol	Description	Symbol	Description
	Risk of danger.		Warning: Hot surface.
	Risk of electric shock. DO NOT touch the terminal or remove the shell within 5 minutes after disconnecting all power.		The battery is heavy and can cause injury if not handled safely.
	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.
	Do not place near open fire or incinerate. Do not use near heaters or hot temperature sources.		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 step, stand, or climb on this surface.		Avoid unsuitable shoes for installing and operating the inverter.
	Do not step or put any objects onto the battery.		Do not drop, deform, or impact the battery.
	Single-phase.		Three-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.

Symbol	Description	Symbol	Description
	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.		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.

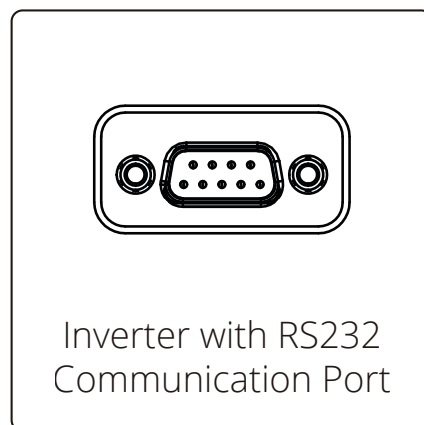
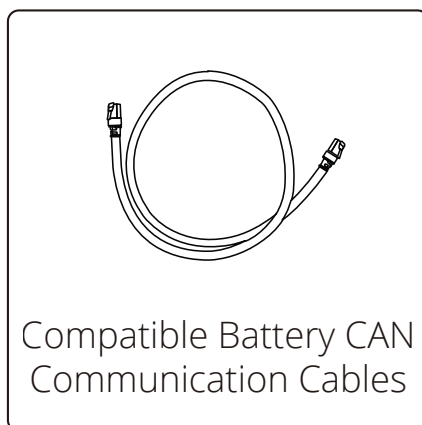
Parts List

Check the equipment before installation, please make sure nothing is damaged in the package.



Installation Tools

Installation tools can include the following recommended items. Additionally, utilise any other auxiliary tools available on-site.

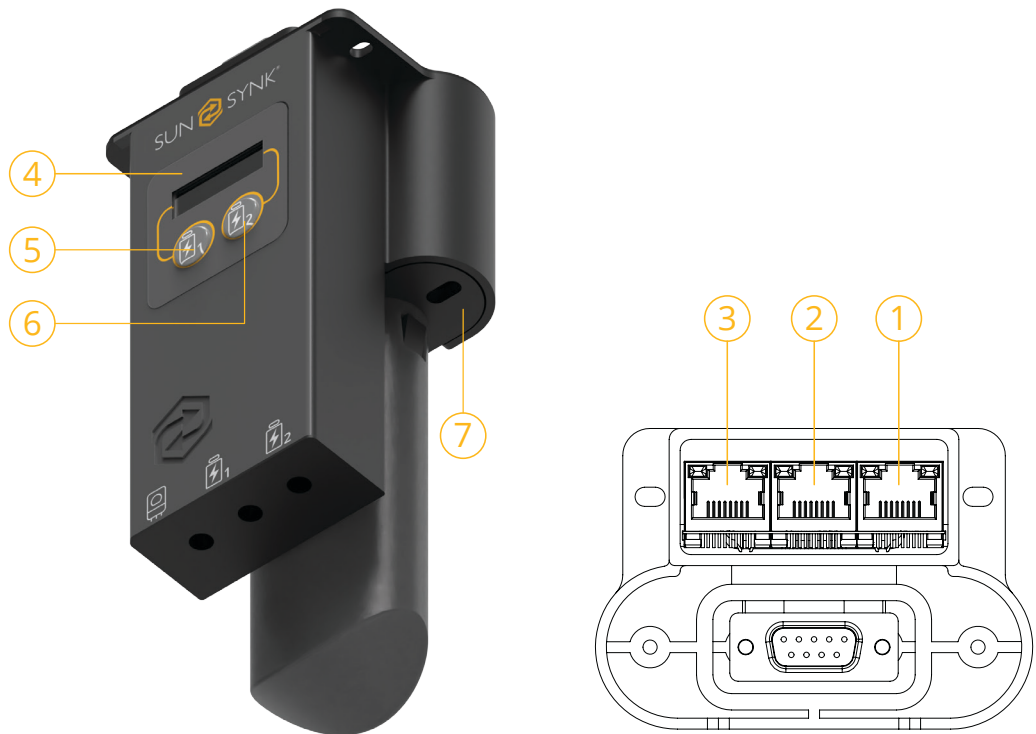


Note

Prior to installation, please take a note of the Data Logger serial number prior to installing the Sunsynk Klik device. The Data Logger serial number will be required for Sunsynk Connect or Sunsynk Connect Pro set up.

Product Overview

Sunsynk Klik allows you to connect two batteries with different BMS protocols to a single hybrid inverter. It translates, aggregates, and sends a unified CAN signal to the inverter.



No.	Port	Label	Function
1	RJ45 Port 1	Inverter	Connects to hybrid inverter
2	RJ45 Port 2	Battery 1	Connects to battery 1 BMS
3	RJ45 Port 3	Battery 2	Connects to battery 2 BMS
4	LCD Display	-	Shows selected battery protocols
5	Button 1	Button 1	Select protocol for battery 1/ set battery capacity
6	Button 2	Button 2	Select protocol for battery 2/ set battery capacity
7	Data Logger	Data Logger	Sunsynk Connect

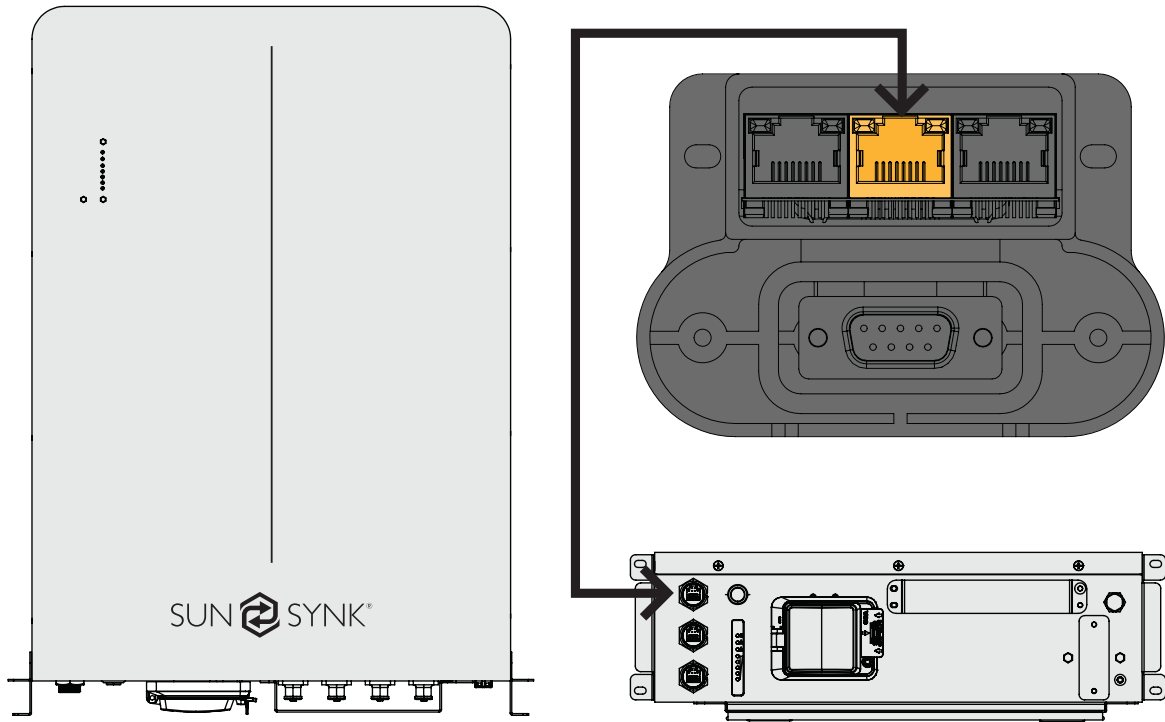
Key Features

- Supports two independent batteries.
- Aggregates CAN signals to inverter.
- Built-in LCD interface for protocol configuration.
- Powered via 12V from inverter RS232 port.
- Plug-and-play with 3x RJ45 ports.

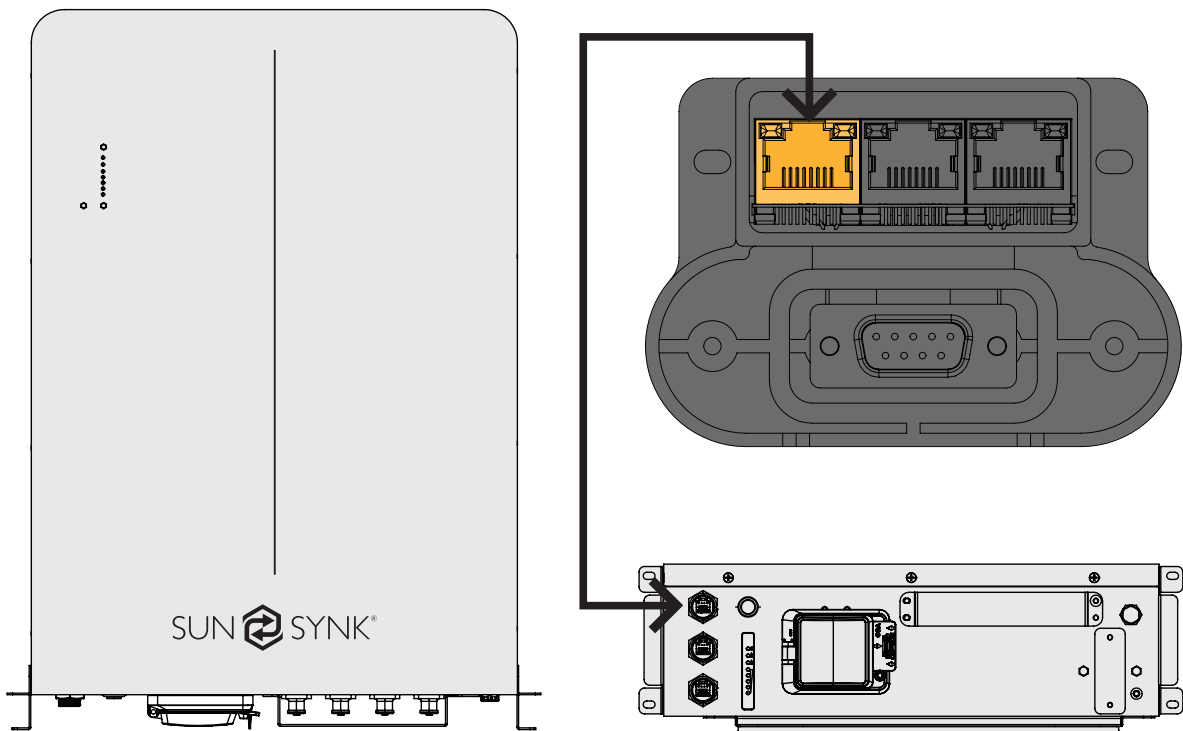
Wiring Diagram

Connect the Sunsynk Klik as follows:

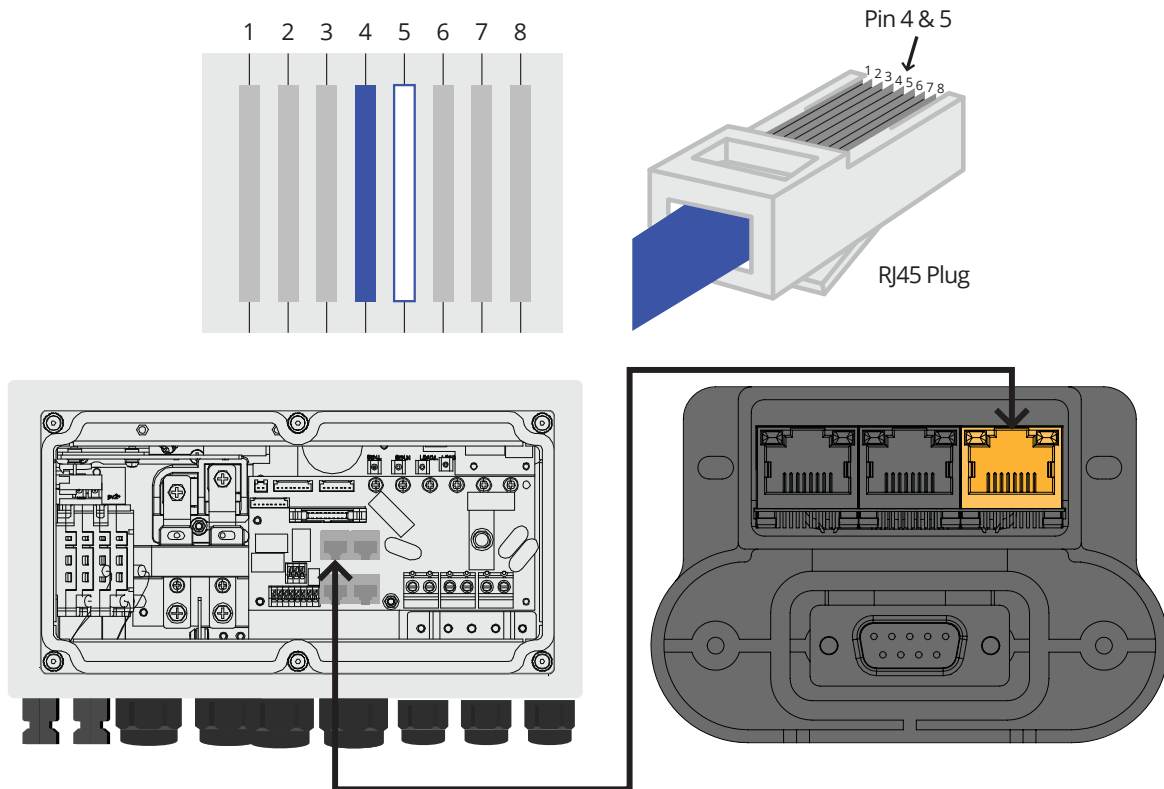
Step 1 | Connect the battery communication cable from battery 1 to the Sunsynk Klik battery port 2.



Step 2 | Connect the battery communication cable from battery 2 to the Sunsynk Klik battery port 3.



Step 3 | Connect the BMS/PCS communication cable to the Sunsynk Klik battery port 1.



Installation Instructions

- Step 1** | Locate the inverter's RS232 communication port (Wi-Fi port).
- Step 2** | Unscrew the inverter Wi-Fi port cover.
- Step 3** | Plug the Sunsynk Klik into the Wi-Fi port.
- Step 4** | Secure the Sunsynk Klik in place using screws.
- Step 5** | Connect batteries communication cables as described in the section above.
- Step 6** | Power on the inverter to activate the Sunsynk Klik.
- Step 7** | In order to use Sunsynk Connect, the Data Logger must be inserted into the back of the Sunsynk Klik.

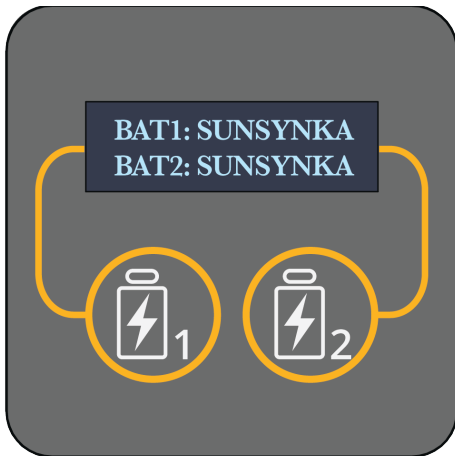


NOTICE

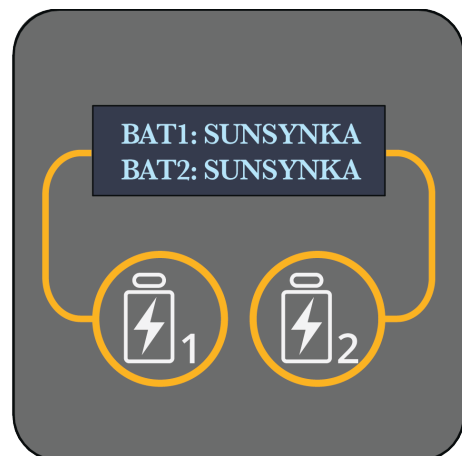
Use CAN/PCS ports on the batteries. Use the BMS/PCS port on the inverter.

Protocol Configuration

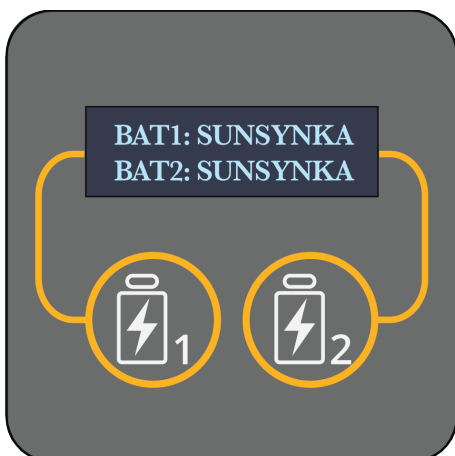
Upon powering up:



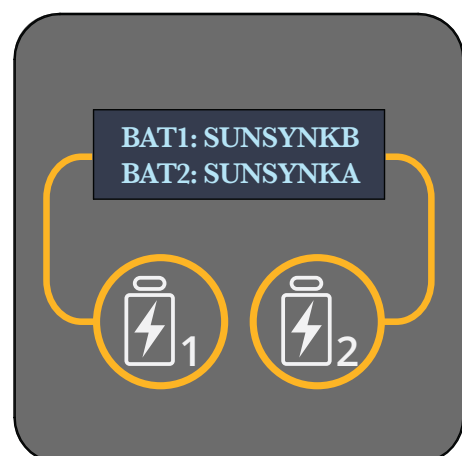
Step 1 | LCD will display BAT1 and BAT2 protocols.



Step 2 | Long press button 1 once to enter protocol selection mode for BAT1 (name flashes).



Step 3 | When BAT1 begins to flash, press button 1 to scroll through compatible protocols.



Step 4 | Once you have reached the protocol required, wait 5 seconds without pressing any buttons - setting will auto-save.

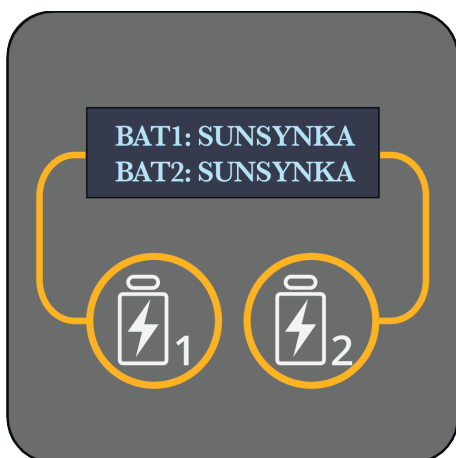


NOTICE

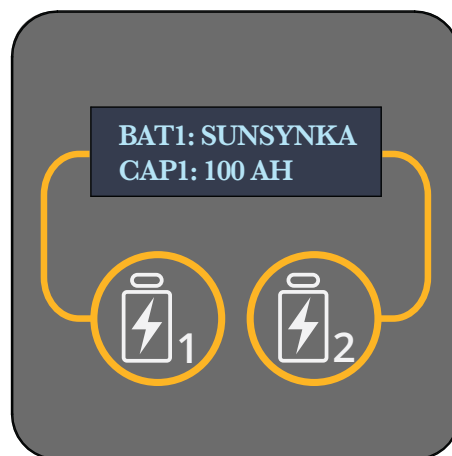
Protocol changes will only apply after the flashing stops.

Set Battery Capacity

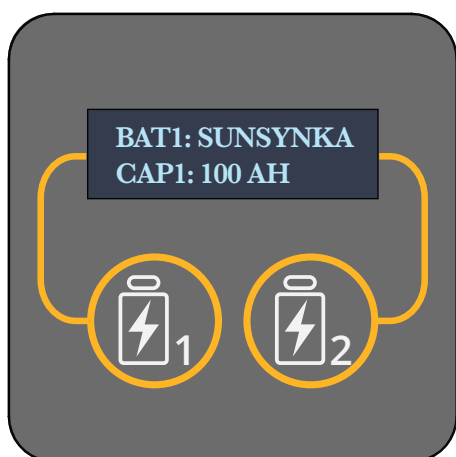
If the Sunsynk Klik does not show the correct combined SOC, it may be due the battery not sharing capacity information. Use this function to manually enter the battery capacity (Ah).



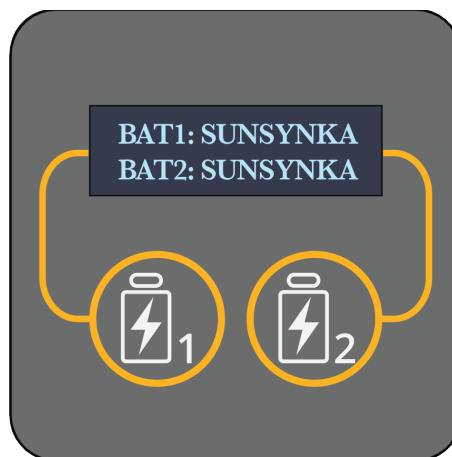
Step 1 | LCD will display BAT1 and BAT2 protocols.



Step 2 | Long press button 1 twice to enter BAT1 capacity.



Step 3 | If the display shows 0Ah, it means the battery does not share capacity information. Press buttons 1 or 2 to increase or decrease the capacity.



Step 4 | Once you have set the capacity, wait 5 seconds without pressing any buttons - setting will autosave.



NOTICE

Capacity changes will only apply after the flashing stops.

Supported Protocols

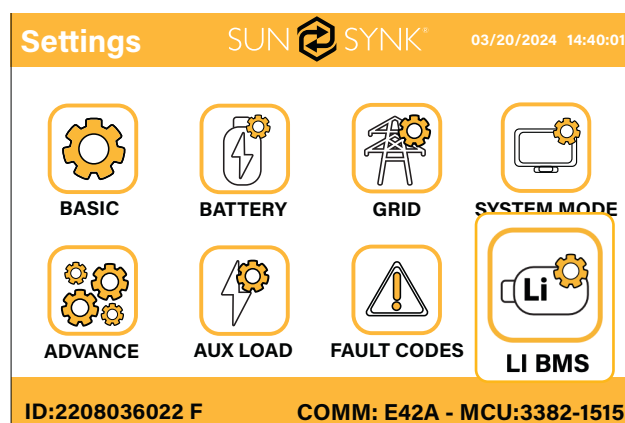
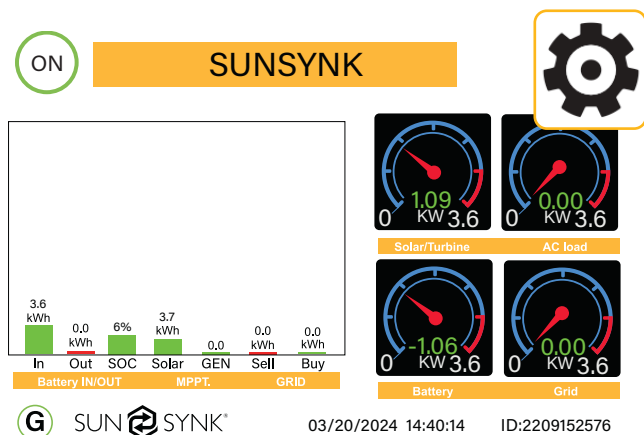
Protocol	Baud Rate	Type
Sunsynk A – SUN-BATT-(5.12/5.32/10.65) Pylon Tech	500k	CAN
Sunsynk B – Sunsynk-L(3.0, 5.1, 5.3), Sunsynk-G(5.1, 5.3), Sunsynk-W(5.3, 10.2, 10.6)	500k	CAN
GOODWE	500k	CAN
GINLONG	500k	CAN
LXP	500k	CAN
SMA	500k	CAN
GROWATT	500k	CAN
VICTRON	500k	CAN
SO FAR	500k	CAN
KINGOR	500k	CAN
JKONG	250k	CAN



NOTICE

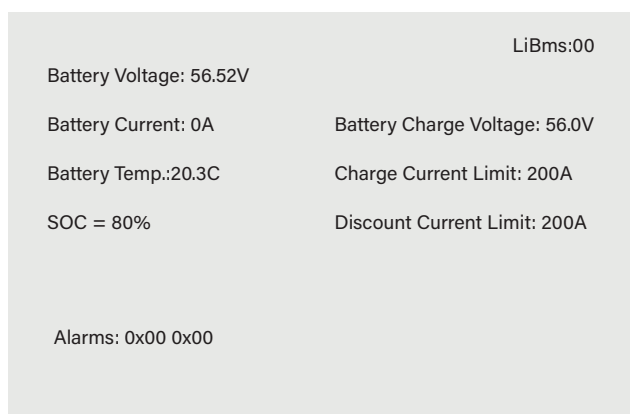
Cannot mix different baud rate protocols.
Check battery compaibility list for applicable batteries.

Data Sent to the Inverter



Step 1 | Select the settings icon.

Step 2 | Select Li BMS icon.



Step 3 | This page shows an aggregate of BAT1 and BAT2 BMS data.



NOTICE

To check if both batteries are communicating, disconnect one of the BMS cables connected to the Sunsynk Klik. The inverter's Li BMS screen should then update to display data from only the connected battery.

Specification

Model		SSKLIKACC01
Power Supply		
Power Supply Voltage		DC 12V
Power Supply Current		DC 17mA
Connection Type		Direct Current
General Data		
Operating Frequency		64MHz
Operation Voltage		DC 12V
Operation Power		200mW Max.
Communication Power		CAN
Transfer Rate		500K bps, 250K bps
IP Rating		IP65
Operating Temperature		-40°C - +85°C

Troubleshooting

Issue	Cause	Solution
No LCD Display	No 12V power from inverter	Check 232, verify inverter power
Inverter Not Recognising Battery	Incorrect protocol or wiring	Reconfigure via LCD
Only One Battery Showing	One connection incorrect	Recheck ports, wiring and protocol
Frozen LCD	Firmware glitch	Power cycle Sunsynk Klik



NOTICE

- Double-check protocols before connecting.
- Double-check BMS1 goes to BAT1 and BMS2 goes to BAT2.
- Wait 5 seconds after protocol selection — don't any press buttons.

Compatibility

This device is compatible with all Sunsynk Inverter models, **EXCEPT** the following:

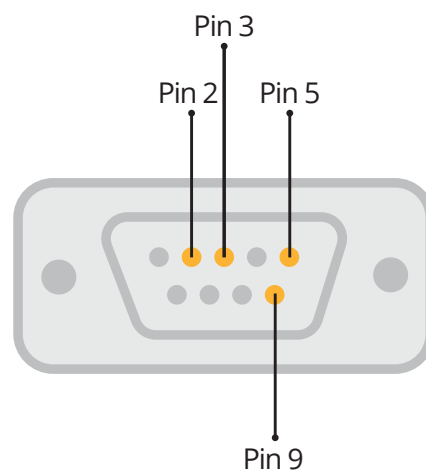
- Acure Single-Phase (C1, C2)
- Acure Three-Phase (C3)
- Contour

Connections Pin Out

Wi-Fi Board

Pin No.

1	-
2	T2 Out
3	R2 Out
4	-
5	GND
6	-
7	-
8	-
9	+12Vdc



Sunsynk Klik

Ports

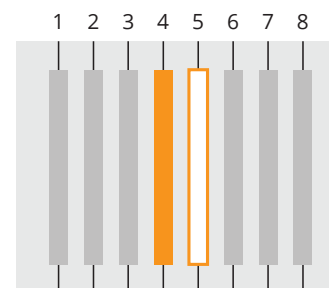
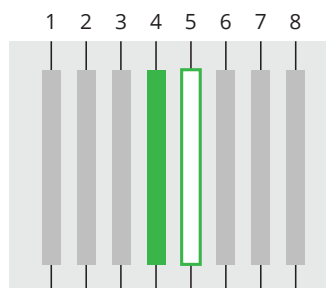
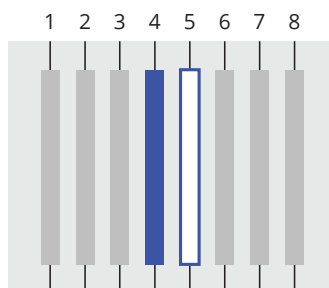
BMS/PCS

BAT1

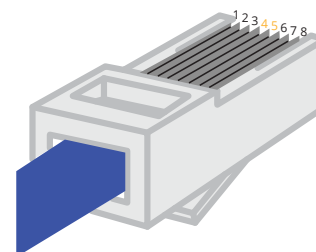
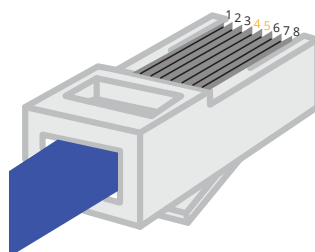
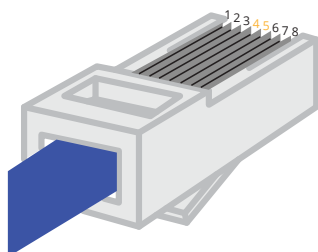
BAT2

1	-	-	-
2	-	-	-
3	-	-	-
4	CAN2H	CAN1H_1	CAN1H_2
5	CAN2L	CAN1L_1	CAN1L_2
6	-	-	-
7	-	-	-
8	-	-	-

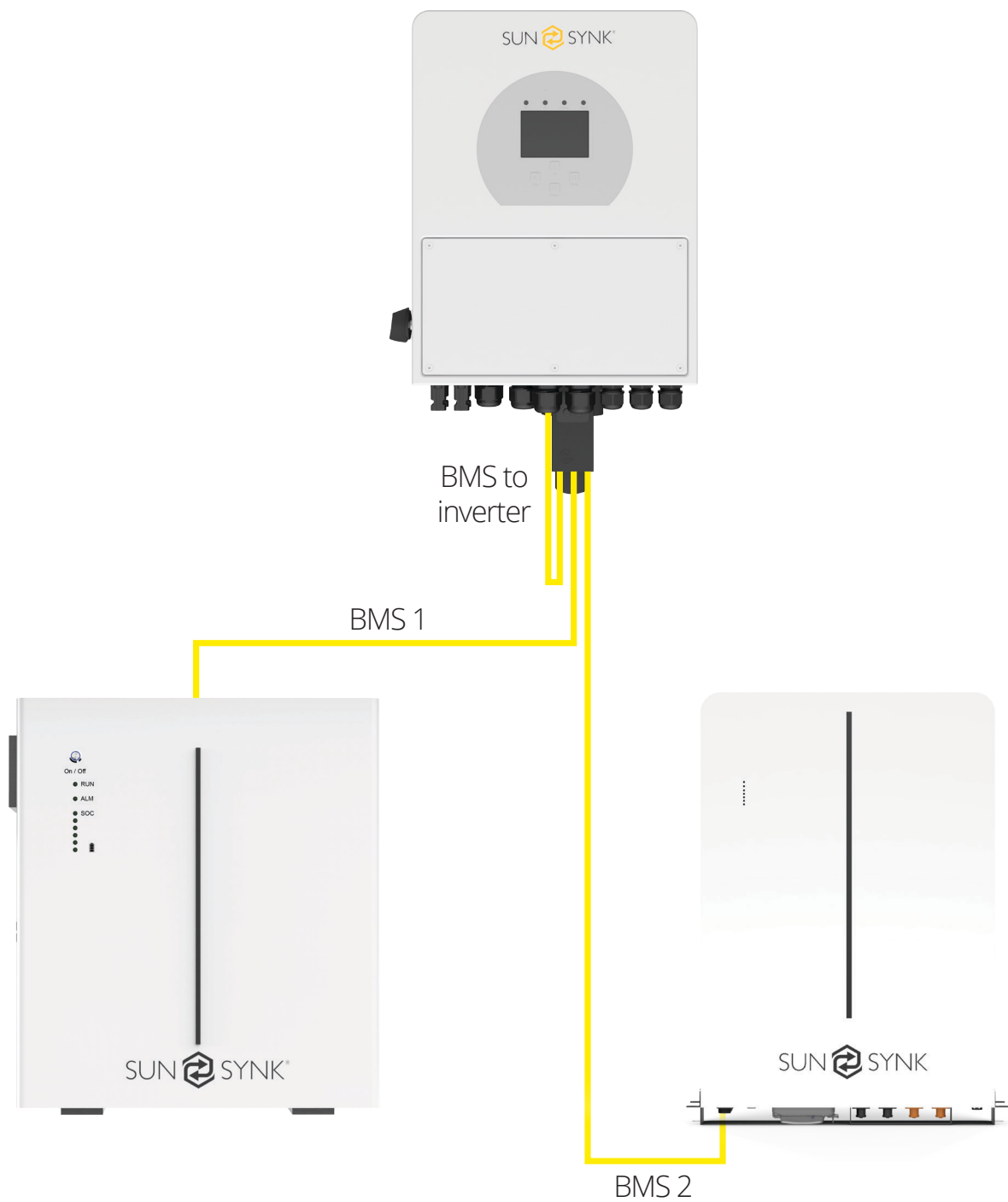
Port Pin



RJ45 Plug



System Overview





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