



SOLIS INVERTER GUIDE

- + SETTINGS
- + COMMUNICATION
- + TROUBLESHOOTING



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HUBBLE ENERGY & SOLIS

Hubble Energy batteries are fully compatible and approved by Solis. Solis inverters are hybrid inverters with a large range of features that provides great flexibility for installers.

The following field guide will assist with the correct battery settings and cable connections you should use. For further detailed information ensure that you read the manual of the supplied battery regarding the setup and installation instructions.

Older inverter firmware versions require a Cloudlink.

<https://www.hubbleenergy.com/> for the latest version of this manual.

WARNING

Working with high-voltage systems is dangerous. Do not attempt to modify your inverter and battery setup unless you are certain you understand the risk. Speak to a qualified electrician if you are unsure.

INVERTER SETTINGS

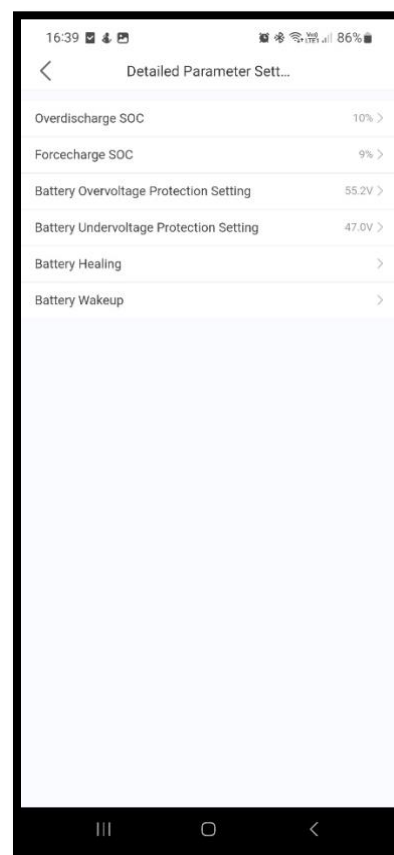
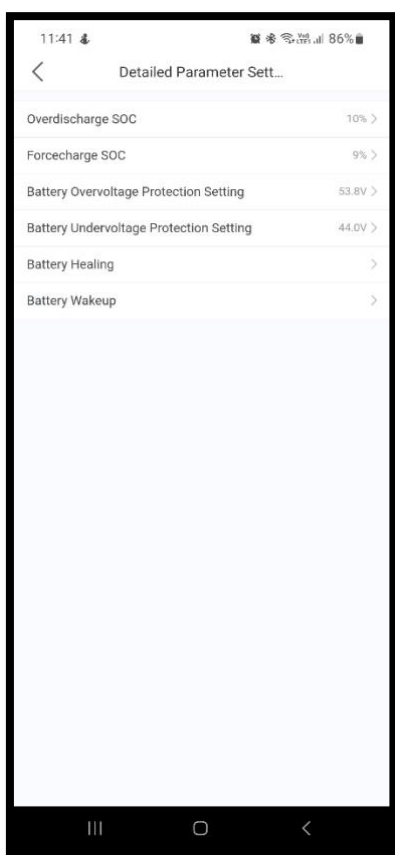
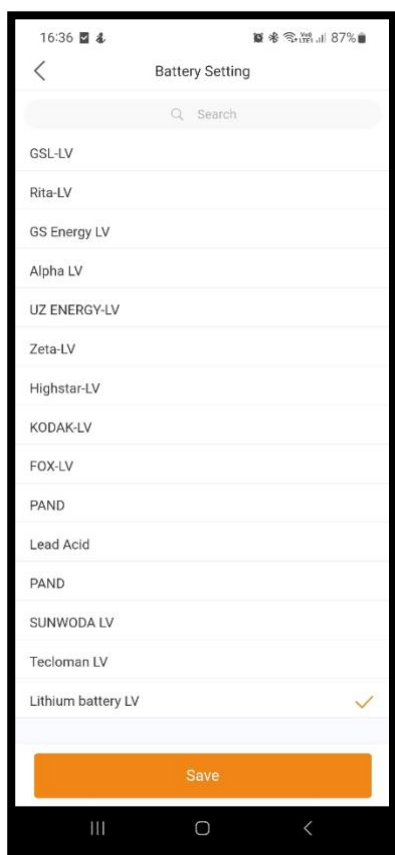
Model	Voltage	Equalised	Float	Cutoff	Charge Amps	Max Discharge Current
X-101	48V	53.8	53.8	44	30A	100A
AM-2	48V	53.8	53.8	44	30A	100A
AM-5	48V	55.2	55.2	47	30A	100A
AM-10	48V	55.2	55.2	47	60A	150A
BLADE	48V	55.2	55.2	47	50A	200A

These settings are the recommended settings to use for the corresponding Hubble Energy battery, as seen on the Solis application. The latest Solis Inverters are the S6 series, these Inverters connect and let the user define settings through their mobile application on a handheld device. The application called "Solis Cloud" is available for Android and iOS.

Once the application has been downloaded and an account has been created, the Bluetooth connection between the Inverter and your smartphone must be established from the applications tool's menu. Please refer to the Inverter manual to make the correct settings on your initial setup of the Solis Inverter. Our batteries will need the necessary unique settings made on the app, please note the images below:

PLEASE NOTE

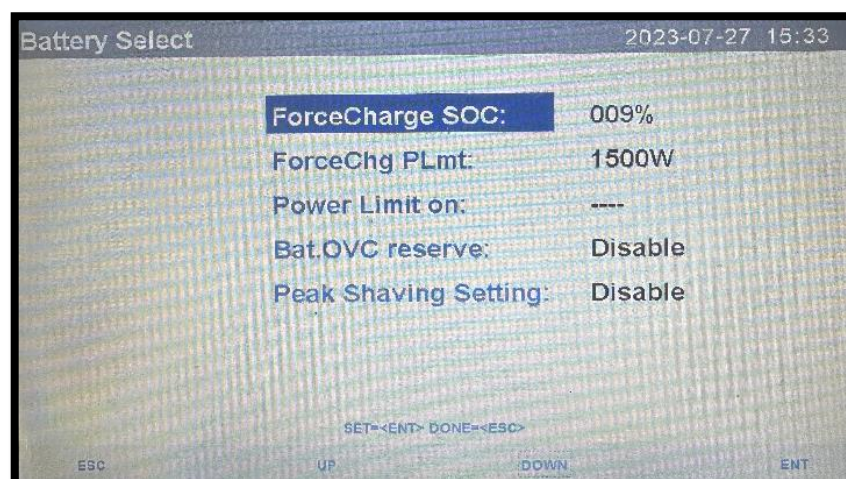
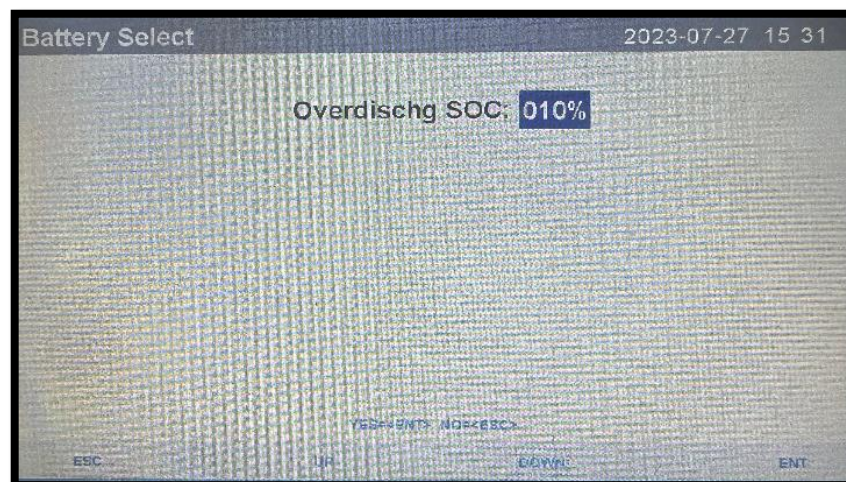
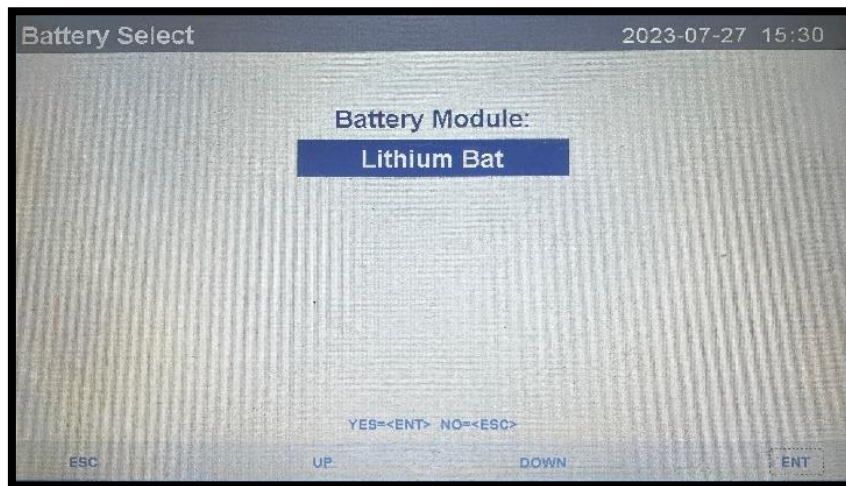
The settings "Battery Overvoltage Protection Setting & Battery Undervoltage Protection Setting" are battery specific and can be acquired from the table above. Examples below are that of an AM-2 (53.8V/44V) and AM-5 (55.2V/47V)



SETUP FOR S5 SERIES SOLIS INVERTER (INVERTER DISPLAY)

The below settings are the recommended settings to use for the corresponding Hubble Energy battery, as seen on the Solis display. On an S5 series Solis Inverter that does not connect via Bluetooth the required unique Hubble Energy battery settings are done on the inverter itself via the interactive display.

Use the buttons to navigate the menu on the Solis Inverter and use the settings in the images below to prepare your inverter:



PIN LAYOUTS & CLOUDLINK

Hubble Energy recommends the [Cloudlink Device](#) on Solis installations. It is not required but recommended.

CLOUDLINK

The Cloudlink will connect to the Battery via:

Cloudlink's (Serial/RJ12 Port) to the Battery (RS232/RJ12 Port)

(Black Cable) – RJ12 to RJ12 (450mm) cable.

RJ45 PIN LAYOUTS

The Solis Inverter will connect to the Battery via:

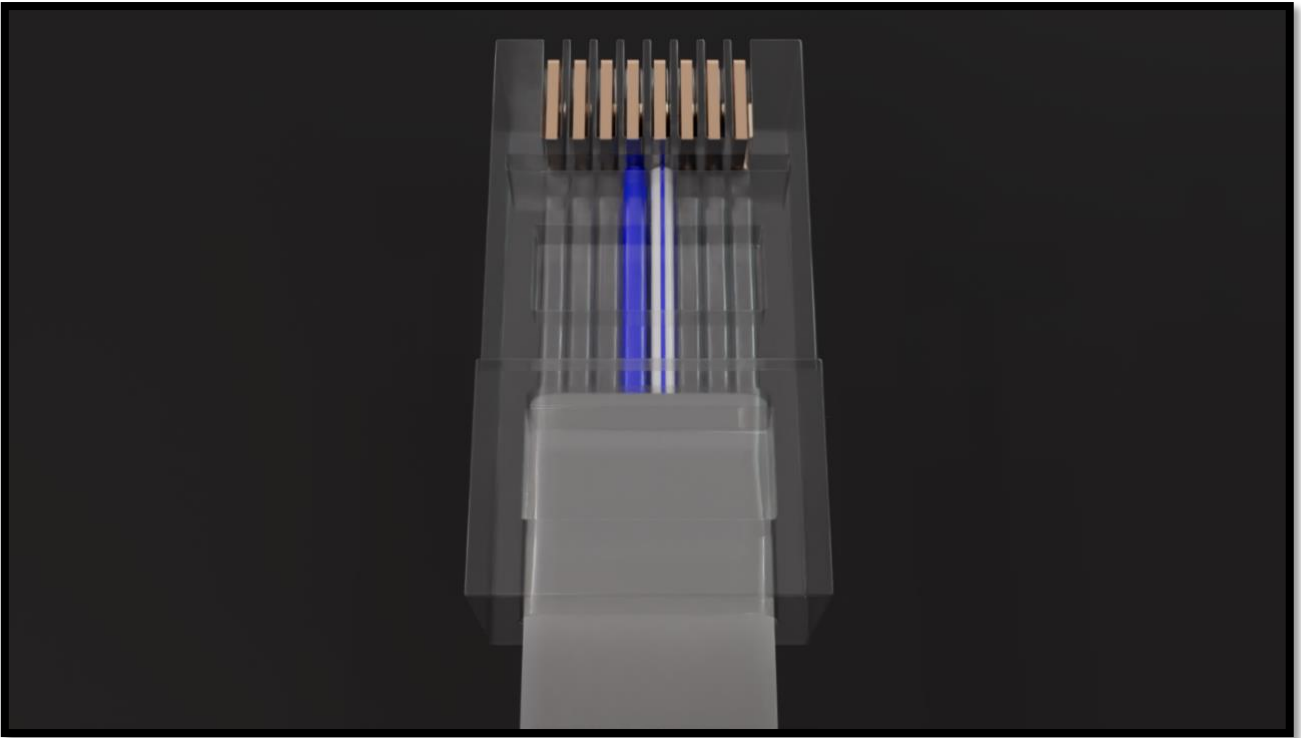
Inverter (CAN Port) to Battery (CAN Port)

Straight RJ45 to RJ45 wire - 1500mm.

Ensure that the clip is pointed away from you when counting the pins.

Pin	Inverter	X-101/AM-4/AM-2	AM-5/AM-10	Blade
1	-	-	-	-
2	-	-	-	-
3	-	-	-	-
4	CANH	CANH	CANH	CANH
5	CANL	CANL	CANL	CANL
6	-	-	-	-
7	-	-	-	-
8	-	-	-	-

4 & 5 Pin Layout image reference seen below:



HUBBLE DIP SWITCH SETTINGS

FOR MULTIPLE BATTERY INSTALLATION

For correct setup and communication, each battery needs a unique serial address to communicate. If you are only using one battery in your setup, consider this the master battery and ensure you set it to address 1.

AM-2, AM- 4 & BLADE DIP SWITCHES

ADDRESS	SWITCH POSITIONS			
	#1	#2	#3	#4
1	ON	OFF	OFF	OFF
2	OFF	ON	OFF	OFF
3	ON	ON	OFF	OFF
4	OFF	OFF	ON	OFF
5	ON	OFF	ON	OFF
6	OFF	ON	ON	OFF
7	ON	ON	ON	OFF
8	OFF	OFF	OFF	ON
9	ON	OFF	OFF	ON
10	OFF	ON	OFF	ON
11	ON	ON	OFF	ON
12	OFF	OFF	ON	ON
13	ON	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON

AM-5 & AM-10 DIP SWITCHES (4-DIP VERSION)

ADDRESS	SWITCH POSITIONS			
	#1	#2	#3	#4
1	OFF	OFF	OFF	OFF
2	ON	OFF	OFF	OFF
3	OFF	ON	OFF	OFF
4	ON	ON	OFF	OFF
5	OFF	OFF	ON	OFF
6	ON	OFF	ON	OFF
7	OFF	ON	ON	OFF
8	ON	ON	ON	OFF
9	OFF	OFF	OFF	ON
10	ON	OFF	OFF	ON
11	OFF	ON	OFF	ON
12	ON	ON	OFF	ON
13	OFF	OFF	ON	ON
14	OFF	ON	ON	ON
15	ON	ON	ON	ON

AM-10 (8-DIP VERSION)

ADDRESS	SWITCH POSITIONS						
	#1	#2	#3	#4	#5	#6	Mark (#7 & #8)
0	ON	ON	OFF	OFF	OFF	OFF	Mastery Battery/Enable CAN BUS Port - ON
1	OFF	OFF	OFF	OFF	OFF	OFF	Slave 2 - OFF
2	OFF	ON	OFF	OFF	OFF	OFF	Slave 3 - OFF
3	OFF	OFF	ON	OFF	OFF	OFF	Slave 4 - OFF
4	OFF	ON	ON	OFF	OFF	OFF	Slave 5 - OFF
5	OFF	OFF	OFF	ON	OFF	OFF	Slave 6 - OFF
6	OFF	ON	OFF	ON	OFF	OFF	Slave 7 - OFF
7	OFF	OFF	ON	ON	OFF	OFF	Slave 8 - OFF
8	OFF	ON	ON	ON	OFF	OFF	Slave 9 - OFF
9	OFF	OFF	OFF	OFF	ON	OFF	Slave 10 - OFF
10	OFF	ON	OFF	OFF	ON	OFF	Slave 11 - OFF
11	OFF	OFF	ON	OFF	ON	OFF	Slave 12 - OFF
12	OFF	ON	ON	OFF	ON	OFF	Slave 13 - OFF
13	OFF	OFF	OFF	ON	ON	OFF	Slave 14 - OFF
14	OFF	ON	OFF	ON	ON	OFF	Slave 15 - OFF

FREQUENTLY ASKED QUESTIONS

How do you set up multiple batteries?

See table above and check your product manual for a more detailed explanation. You will have to set dip switch settings per battery to give them a unique address. You also must connect the included RJ45 battery link cables into the "Battery Link" port of each battery. Ensure your master battery dip switch 1 is on, 2,3,4 is OFF. Only the master battery CAN Bus will be enabled. You can then connect the Hubble Cloudlink into the CAN port of the master battery for communications to work.

Do I have to use the communication battery link cables if I don't want to monitor or have communications?

Yes.