LUXPOWER
INVERTER GUIDE

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HUBBLE ENERGY & LUXPOWER

Hubble is officially recognised and fully integrates with Luxpower inverters. The following field guide will assist with the correct battery settings you should use.

For further detailed information ensure you read the manual of the supplied battery regarding setup and installation instructions.

*12kW Luxpower Inverters are still under testing.

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

IMPORTANT

On the inverter, setup the charge/discharge profile AND setup the allowed charging times (P1, P2 and P3). (The default settings won't allow the inverter to charge the battery using Mains power).

Model	Voltage	Equalised	Float	Cutoff	Charge Amps	Max Discharge Current
S-SERIES	12V	14	14	12	30A	100A
X-100	48V	52.8	52.8	44	30A	100A
X-101	48V	53.8	53.8	44	30A	100A
X-200	36V	41.5	41.5	34	30A	100A
AM-2	48V	53.8	53.8	44	30A	100A
AM-3	48V	53.8	53.8	44	20A	50A
AM-4	24V	29	28.5	22	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

STEPS TO CONNECT THE LUXPOWER LXP5K HYBRID:

1. Set Hubble MASTER dip to 1000 if AM-2 or AM-4. If AM-5 or AM-10 model set master dip to 0000.
2. Set Hubble Slaves to their respective addresses as per manual.
3. Use CAN out on MASTER to Luxpower inverter.
4. Go to BATTERY Settings.
5. Select Lithium.
6. Select PYLON

STEPS TO CONNECT TO THE LUXPOWER SNA5KW:

1. Set Hubble MASTER dip to 1000 if AM-2 or AM-4. If AM-5 or AM-10 model set master dip to 0000.
2. Set Hubble Slaves to their respective addresses as per manual.
3. Use CAN out on MASTER to Luxpower inverter.
4. On the SNA, go to the MENU.
5. Select option 3 for Battery settings.
6. Select Lithium battery.
7. Select BRAND 2

PIN LAYOUTS & CLOUDLINK

*Please note: Hubble Energy recommends the Cloudlink Device on Luxpower installations. It is not required but recommended.

Check both the user-manual and the packaging of your inverter for its CAN pinout. Some Luxpower units use pins 4 and 5, whereas others still use pins 3 and 4.

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 Luxpower 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.

LXP RANGE: LUXPOWER USING PINS 3 & 4 FOR INVERTER

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

PLEASE NOTE

The LXP is a hybrid inverter that requires solar to charge the battery to 100%.

SNA RANGE: LUXPOWER USING PINS 4 & 5 FOR INVERTER

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	-	-	-	-

3 & 4 Pin Layout image reference seen below:
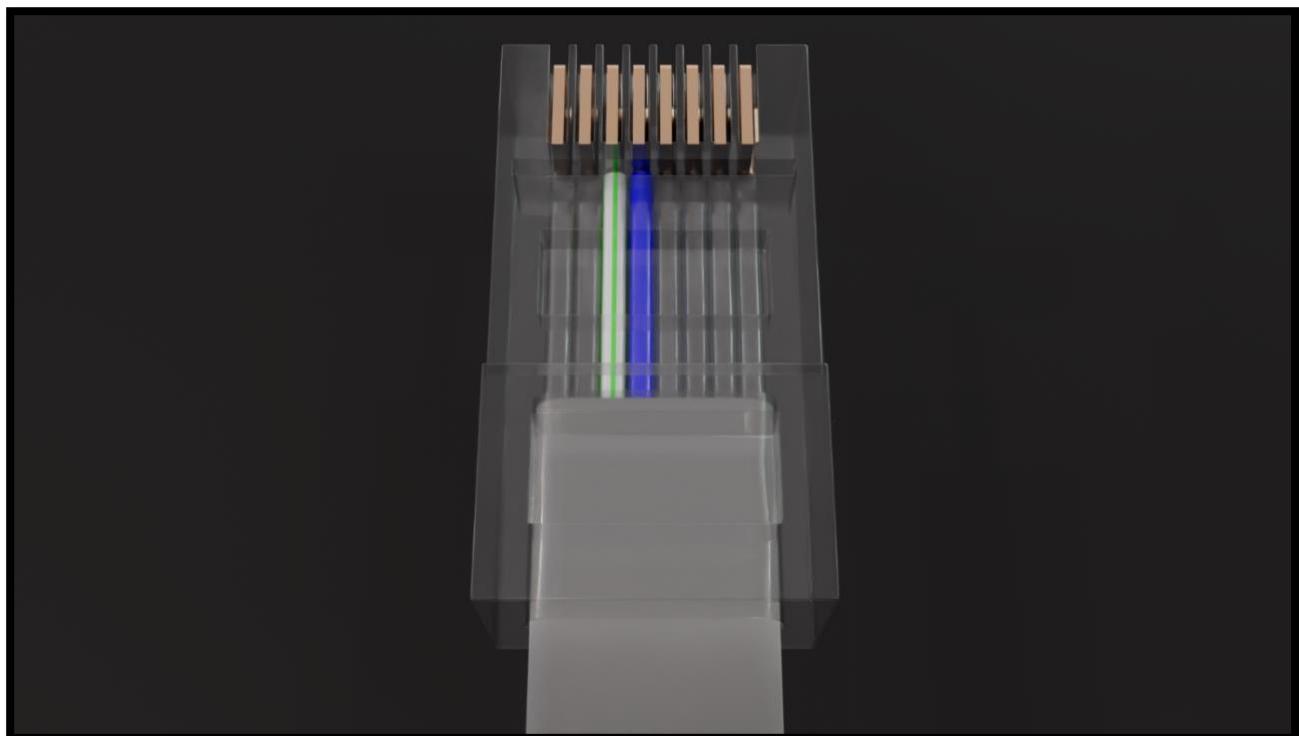
4 & 5 Pin Layout image reference seen below:
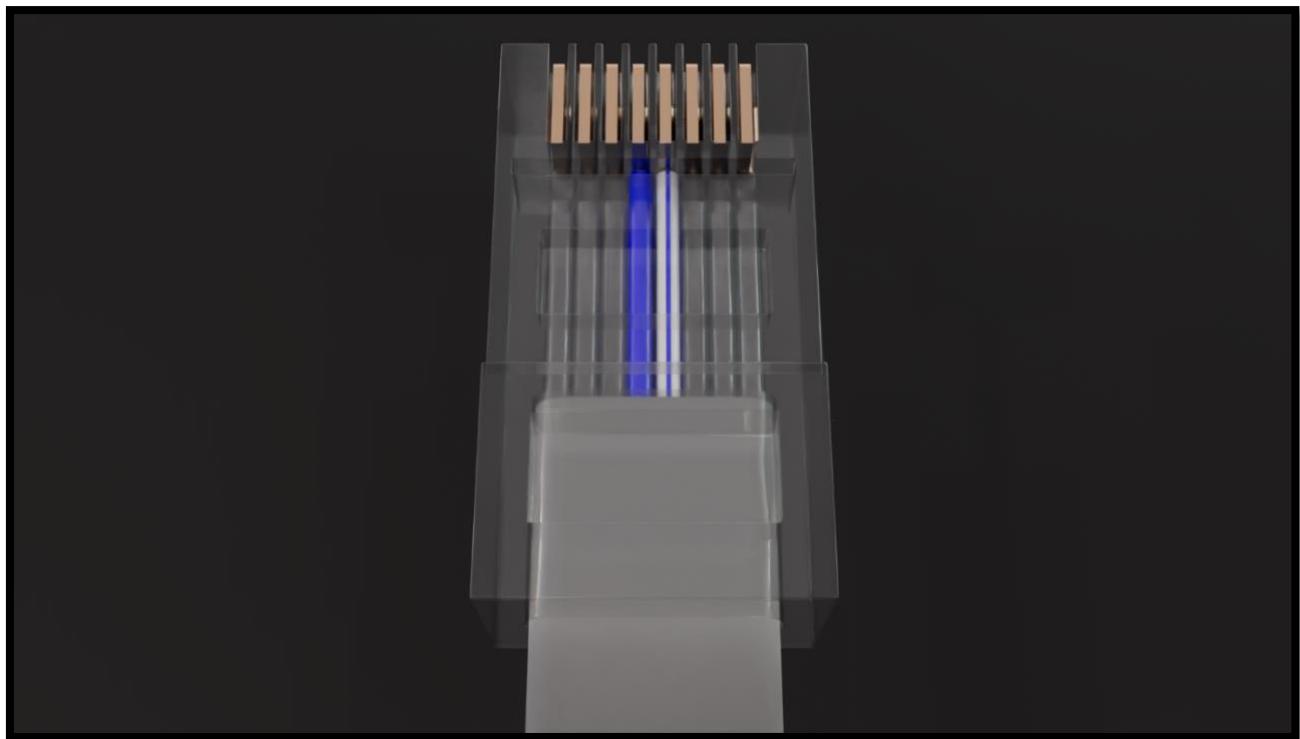
HUBBLE DIP SWITCH SETTINGS

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, AM-10+, AM-16+ & 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	OFF
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

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.