

# Wiring for Pylon Extra2000 and Sungrow SH5K+

## Disclaimer

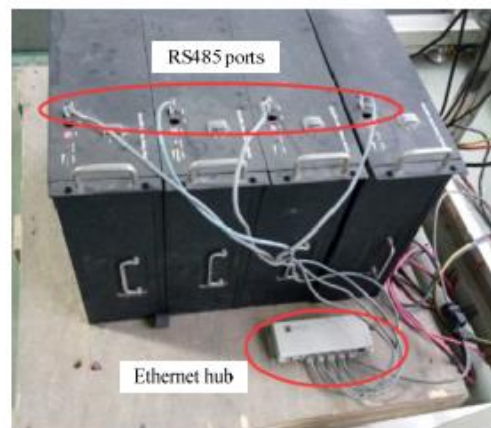
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## 1 Extra2000 and SH5K / SH5K+

The Pylon Extra2000 needs to use the RS485 port on the battery to connect to the inverter SH5K / SH5K+. In case of multiple batteries running in parallel, proceed as follows.

### 1.1 Cable Wiring Procedure

**Step 1** Connect the RS485 port on each battery pack to an Ethernet hub (Figure 1)



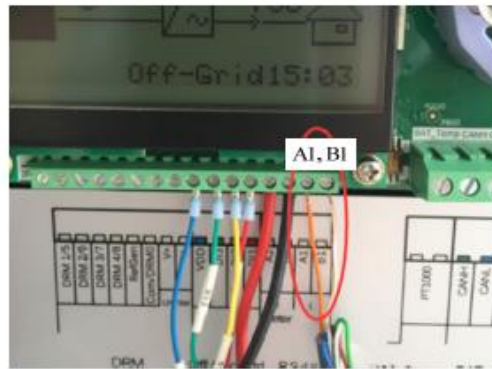
**Figure 1:** Pylon Extra2000 RS485 wiring example

**Step 2** Run another cable from the output of the Ethernet hub to the inverter (Figure 2).

**Pin 2 to A1 and pin 1 to B1:**

T568B: orange wire to A1 and orange-white to B1

T568A: green wire to A1 and green-white to B1



**Figure 2:** RS485 connection to A1 and B1 in the inverter

If unable to find an Ethernet hub, hard wire all the pins 2 of RS485 cables together to A1 and all the pins 1 together to B1 on the inverter.

## 1.2 Setting the Battery Address

The address is a binary number. Switch 1 is the LSB (Least Significant Bit), and switch 4 is the MSB (Most Significant Bit). The maximum number of batteries that can be connected in parallel is four. Set the battery address for each bank in parallel as follows.

**Master:** should be set to 2, where Switch 2 is set to ON, as shown in Figure 3.



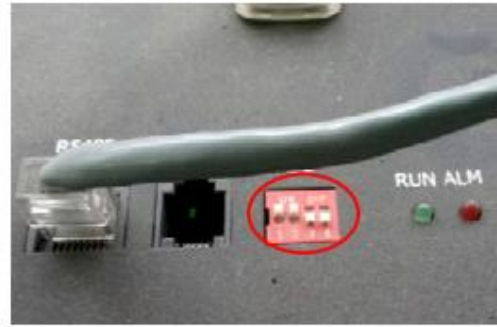
**Figure 3:** Master battery address

For batteries running in Slave mode,

**Slave 1:** the address is 3, where Switch 1 & 2 are ON (2+1=3) (Figure 4).

**Slave 2:** the address is 4, where Switch 3 is ON (Figure 5).

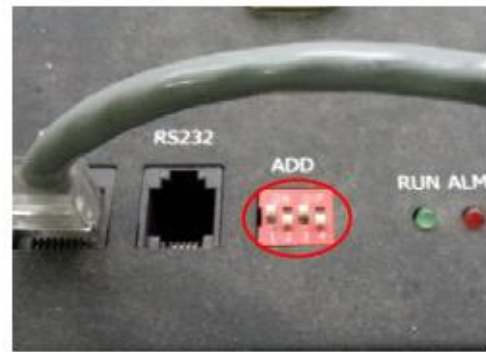
**Slave 3:** the address is 5, where Switch 1 & 3 are ON (1+4=5) (Figure 6).



**Figure 4:** Slave1 battery address



**Figure 5:** Slave2 battery address



**Figure 6:** Slave3 battery address

You only need to set the battery address for the number of batteries that you have. So,

- For one battery, set the battery address to the master address.
- For two batteries, set one battery to master and the other to slave 1.
- For three batteries, set one battery to master, the second to slave 1 and the third to slave 2.
- For four batteries, set one battery to master, the second to slave 1, the third to slave 2 and the fourth to slave 3.

### 1.3 Inverter Settings

Select the correct battery model and the Tray Number. The tray number indicates how many batteries are connected in parallel (Figure 7 & Figure 8).

For SH5K V11 LCD:

Main Screen (Press **ENTER**) → Menu (Press **▼** × 2) → Settings (Press **ENTER**) → Input password 111 (Press **ENTER**) → Settings (Press **▼** × 5) → Battery Type (Press **ENTER**)

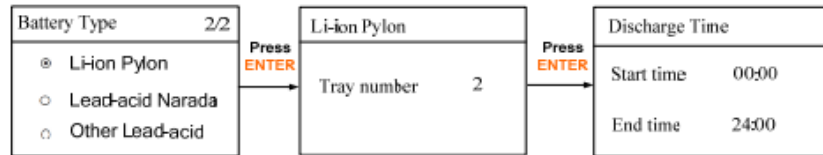


Figure 7: SH5K V11 battery setting

For SH5K+ LCD:

Main Screen (Press **ENT**) → Menu (Press **▼** × 2) → Settings (Press **ENT**) → Input password 111 (Press **ENT**) → Settings (Press **▼** × 8) → Battery Type (Press **ENT**)

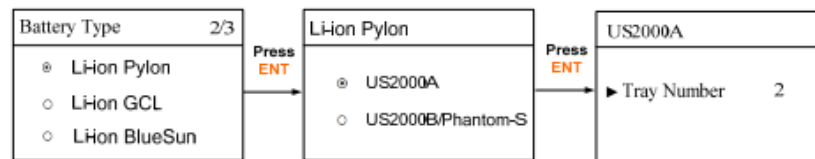


Figure 8: SH5K+ battery setting

If the issue persists after following above procedures, please take photos testing on site and contact Sungrow Service Department on 1800 786 476 or email to [service@sungrowpower.com.au](mailto:service@sungrowpower.com.au), Monday- Friday 9am - 5pm (AEDT).