

# Wiring for Pylon US2000B and Sungrow SH5K+

## Disclaimer

The material in this document has been prepared by Sungrow Australia Group Pty. Ltd. ABN 76 168 258 679 and is intended as a guideline to assist solar installers for troubleshooting. It is not a statement or advice on any of the Electrical or Solar Industry standards or guidelines. Please observe all OH&S regulations when working on Sungrow equipment.

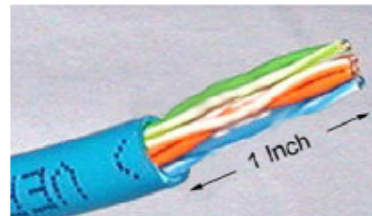
## 2 US2000B and SH5K

The US2000B battery communicates with the Sungrow SH5K V11 inverter via an Ethernet cable. If all the battery cable connection is correct, the 4 ADD switches on US2000B will distribute themselves, and not necessary to set. Prepare the following materials and tools before wiring.

- Ethernet cables,
- RJ45 Crimpable plugs, and
- an RJ45 Crimping tool.

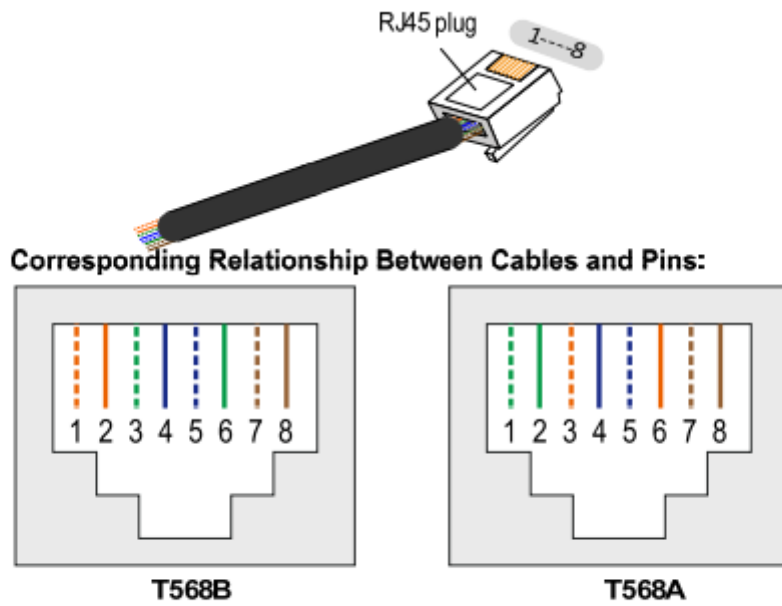
### 2.1 Cable Wiring Procedure

**Step1** Use the crimping tool to cut into the Ethernet cable plastic sheath about 1 inch (2.5 cm) from the end of the cut cable (Figure ).



**Figure 9:** Cut cable end and leave 1 inch

**Step 2** Pinch the wires between your fingers and straighten them out. Carefully push all 8 unstripped coloured wires into the RJ45 plug as shown for T568B and T568A (Figure 10).



**Figure 10:** Colour cable order for GCL Ethernet cable

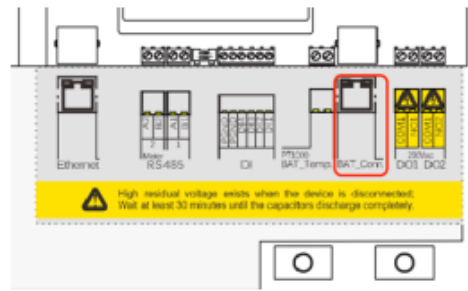
**Step 3** Insert the RJ45 plug into the CAN port on the battery until it makes a clicking sound (Figure 17).

For communication between multiple parallel batteries, see Figure 16.



**Figure 11:** CAN port on the battery

**Step 4** Insert the RJ45 plug into the BAT\_Com. port (Figure 12) on the configuration circuit board until it makes a clicking sound

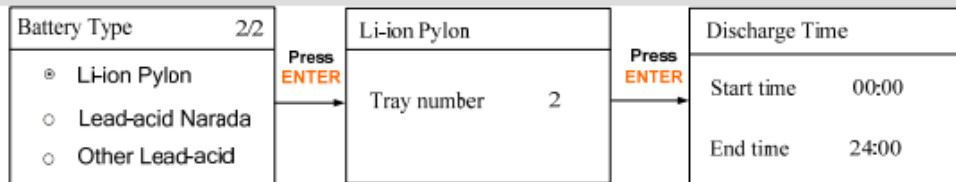


**Figure 12:** BAT\_Com. port in the inverter

## 2.2 Inverter Settings

Select the correct battery model and the Tray Number. The tray number indicates how many batteries are connected in parallel (Figure 13).

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



**Figure 13:** SH5K V11 battery setting

## 3 US2000B and SH5K+

The US2000B battery communicates with the Sungrow SH5K+ inverter via an Ethernet cable (CAN wire). The CAN wire is included in the delivery.

### 3.1 Cable Wiring Procedure

There are four pins within CANH and CANL (Figure 14).

**CANH:** blue and green

**CANL:** blue-white and green-white



**Figure 14:** CAN wire in the delivery

**Step 1** Insert the RJ45 plug into the CAN port on the battery until it makes a clicking sound (Figure 15).



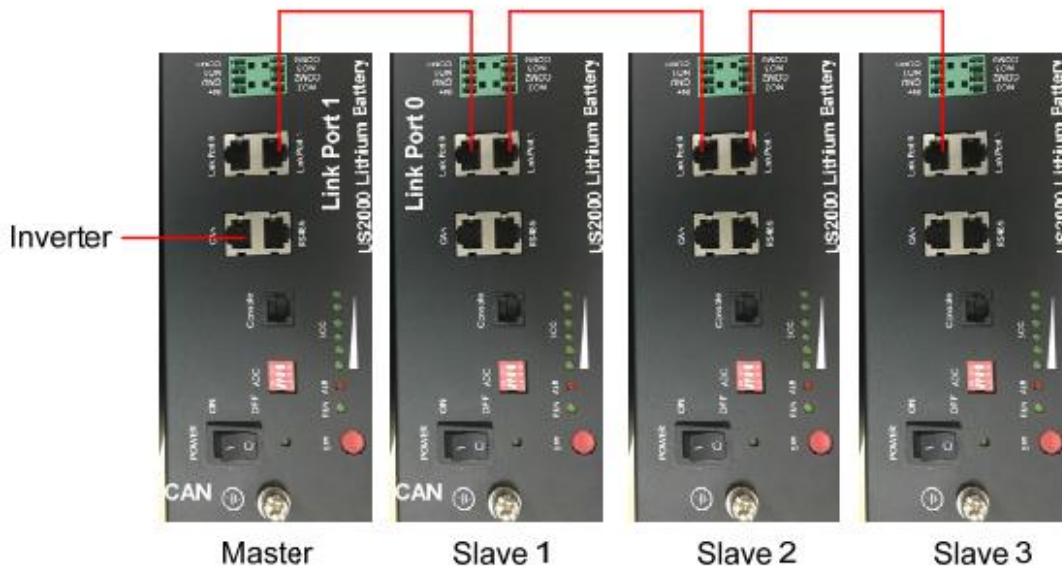
**Figure 15:** CAN port on the battery

**Step 2** Plug CANH into the CANH port and plug CANL into the CANL port of the configuration circuit board of SH5K+ (Figure 16).



**Figure 16:** Connection with CANH and CANL into SH5K+ circuit board

**Step 3** The maximum number of batteries that can be connected in parallel is four. Connect the communication cables in parallel as follows. (Figure 17, Link Port 0 of the lower battery module to Link Port 1 of the upper battery module)

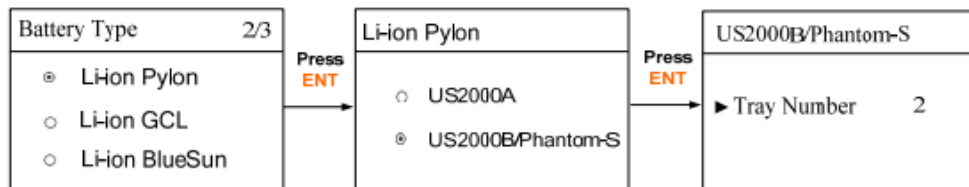


**Figure 17** Communication between multiple parallel batteries

### 3.2 Inverter Settings

Select the correct battery model and the Tray Number. The tray number indicates how many batteries are connected in parallel (Figure 18).

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



**Figure 18:** Setting battery type and capacity

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).