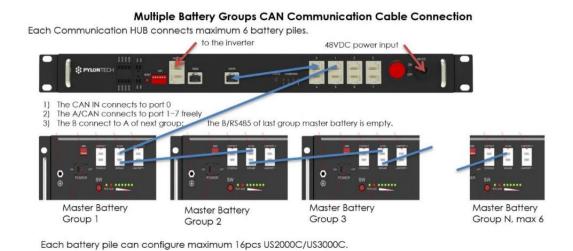
C version battery connection instructions

The C version can have upto 16pcs per group.

Detailed configuration for C type:

1. The wiring diagram of US3000C and HUB is as below.



- 2. Clarification of the communication cables:
- a. Communication cable <u>between Master Batteries</u>(Group(GP) 1 to Group 2, GP2 to GP3 and so on) standard 8PIN direct PIN communication cable.

For the external cables, the length shall less than 3 meters.

SN of RJ45cable	Mark	Pin	
WI0SCAN30RJ1	With blue mark:	Pin1~3: NULL	For connection
	Battery-Inverter	Pin4~8: pin to pin	to inverter
WI0SCAN35RJ3	With silver mark:	Pin1~8: pin to pin	For parallel
	Battery-Battery		connection
			between master
			batteries

^{*}You can use below red square comm. cable within the cable kits provided:

b. Communication cable between <u>Group 1 Master Battery</u> to <u>LV-HUB</u> - It`s a customized ethernet cable, with Pin1~Pin3 shall be NULL(disconnect), Pin4 ~ Pin8 are Pin to Pin. *You can use below red square comm. cable within the cable kits provided:

SN of RJ45cable	Mark	Pin	
WI0SCAN30RJ1	With blue mark:	Pin1~3: NULL	For connection
	Battery-Inverter	Pin4~8: pin to pin	to inverter
WI0SCAN35RJ3	With silver mark:	Pin1~8: pin to pin	For parallel
	Battery-Battery		connection
			between master
			batteries

- c. The communication cable between <u>HUB Port 0</u> to <u>HUB Port CAN IN</u> a standard 8PIN direct PIN ethernet cable.
- * Remember make sure all ADD switch to all module is at OFF position(pysically is UP), see below red square.

For instance:

Dip1	Dip2	Dip3	Dip4	The corresponding position of switch	Status
0	0	0	0	ADD	RS485:115200 CAN terminal resistance: connected
1	0	0	0	ADD ADD NO	RS485:9600 CAN termina resistance: connected
0	1	0	0	ADD	RS485: 115200 CAN termina resistance: NONE

3. After you select the correct communication cable to connect in between different devices, strickly follow below instructions **especially step 4 to step 7**, **which is very easy to mess up, so please follow one by one.**

By CAN:

Connect power cable first:

- each pair of cable hold max 100A constant current. Connect enough pairs of cable based on calculation of system current.
- 2) Suitable protection breaker between battery system and inverter is required.
- 3) connect power cable of LV-HUB



- 4) Make sure all dipswitch is X0XX, then turn ON batteries.
- 5) After all batteries running and buzzer of master battery in group1 rings 3 times. Means all groups are online.
- 6) Change the dip switch of **master battery in group1** to X1XX. Then connect communication cable between LV-HUB and master battery in group 1.
- 7) Then turn ON LV-HUB.

Detailed information please refer to manual of LV-HUB.

By RS485: DO NOT need LV-HUB.

Connect power cable first:

- each pair of cable hold max 100A constant current. Connect enough pairs of cable based on calculation of system current.
- Suitable protection breaker between battery system and inverter is required.



- Make sure all dip switch of master batteries are R0XX, then turn ON batteries.
 - R: is the baud rate of RS485 needed, all master batteries shall be the same.
- 4) After all batteries running and buzzer of master battery in group1 rings 3 times. Means all groups are online.

The interruption of each RS485 command shall at least ≥ 1s.

Multiple Battery Groups RS485 Communication Cable Connection

Max 6 groups
1) The A/CAN of 1st group/master battery connects to inverter or EMS(pin: 7A, 8B, DO NOT connect other pins)
2) The B connect to A of next group; the B/RS485 of last group master battery is empty.



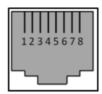
Pin definition:

Link Port 0, 1

for communication between multiple parallel batteries.

Definition of RJ45 Port Pin

	A/CAN	B/RS485	
Pin1	These pins shall be NULL. If not, may influence communication		
Pin2			
Pin3	between BMS and inverter.		
Pin4	CAN-H	CAN-H (single group)	
Pin5	CAH-L	CAN-L (single group)	
Pin6	CAN-GND	CAN-GND (single group)	
Pin7	485A	485A	
Pin8	485B	485B	



RJ45 Port

