UP5000, US3000C and US2000
Mixture Installation

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1. US3000C and US3000 Mixture Installation

1.1 Hardware Difference:

Figure 1: US3000C Front view

Figure 2: US3000 Front view

1.2 Software Difference

	US3000C	US3000
DoD	95%	90%
Configuration	16pcs	8pcs
Feature	Pre-Charge function	-

1.3 Mixture Installation

US3000C: Needs to be on firmware version 1.7 or later.
US3000: Can be on any other firmware version, they should ideally be on the same versions.

Master	US3000C as the latest technology should be the master battery.
Slave	The following batteries can be slaves between the 2nd and 8th. US3000C/US2000C/US3000/ US2000
Slave	Slave 9 to 16 must be US3000C/US2000C batteries as their configuration can handleup to 16pcs.

From the US3000C battery to the inverter, the BMS cable should have the pinouts on Figure 3 the battery side. Please note that the pinouts have changed for the US3000C compared to the old US3000B.

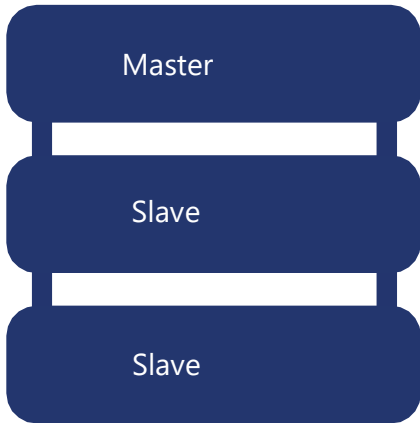| Definition of RJ45 Port Pin		
	A/CAN	B/RS485
Pin1	These pins shall be NULL.	
Pin2	If not, may influence communication	
Pin3	between BMS and inverter.	
Pin4	CAN-H	CAN-H (single group)
Pin5	CAH-L	CAN-L (single group)
Pin6	CAN-GND	CAN-GND (single group)
Pin7	485A	485A
Pin8	485B	485B

Figure 3: US3000C RJ45 cable pinouts

2. UP5000 with US2000/C & US3000/C Mixture Installation

UP5000 battery must be used as the master battery in the bank.
UP5000 battery needs to be on firmware version 1.7 or later.
- Follow the configuration below on how to position the slave batteries in the bank.

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Master
Slave
Slave

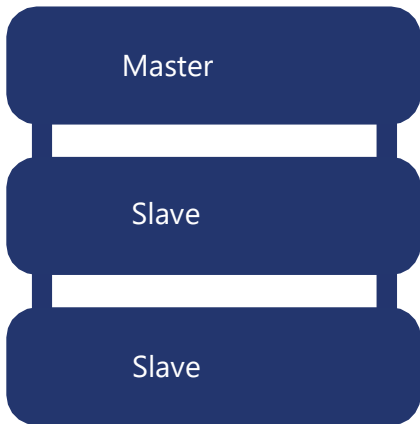UP5000 as the latest technology should be the master battery.

The following batteries can be slaves between the 2nd and 8th. UP5000/US3000C/US2000C/US3000/ US2000

Slave 9 to 16 must be UP5000/US3000C/US2000C batteries astheir configuration can handleup to 16pcs.

3. US2000C with US3000

US2000C: Needs to be on the latest firmware version.
US3000: Can be on any other firmware version, they should ideally be on the same versions.

Master
Slave
Slave

US2000C as the latest technology should be the master battery.

The following batteries can be slaves between the 2nd and 8th. US2000C/US3000/ US2000/B

Slave 9 to 16 must be US2000C batteries as their configuration can handle up to 16pcs.

4. Conclusion:

- UP5000 needs to be the master battery among other Pylontech batteries.
- The US3000C can be the master battery only among US2000/C and US3000 batteries.
- The US2000C can be the master battery only among US2000/C and US3000 batteries.
- The batteries should be Balanced with each other first.

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- Make sure your battery cables have the correct current rating to handle the new charge and discharge capability of the new battery bank size.
- Ensure that the US3000C battery is on firmware version v1.7 or later. The US3000C does not have to be on the same version with the US3000 bank, however, it is ideal that the old bank of the US3000 batteries be on the same version.