

QUICK START GUIDE

This quick guide briefly describes required installation steps. Please refer to the User Manual for more detailed information.

Packing List	
Battery	Battery and Accessories
V5° 51.2V 100Ah LFP Battery Phoenix Terminal	V5° LFP x1pc Batteries Parallel Connection Busbar (19cm/7.48", 300A)x2pcs Cascade Communication Cable (CAT6, 35cm/13.78")x1pc Grounding Cable (10AWG, 1m/39.37")x1pc
V5°a 51.2V 100Ah LFP Battery Amphenol Surlok 8.0mm Terminal	V5°ax1pc Batteries Parallel Connection Power Cable(UL10296, 0AWG, 18cm/7.09", Amphenol Surlok*2, 200A)x2pcs Cascade Communication Cable (CAT6, 35cm/13.78" in Length)x1pc Grounding Cable (10AWG, 1m/39.37" in Length)x1pc

Installation Prerequisites	
1) No heat source, flammable or explosive materials.	6) Minimal dust and dirt.
2) No direct sunlight.	7) Minimum 0.5 meters away from PCS.
3) A restricted area that children or pet can't access.	8) Fire-fighting equipment on site is essential.
4) The floor to install the Product is flat and level.	9) Make sure the battery is powered off before any operation.
5) No puddle water.	

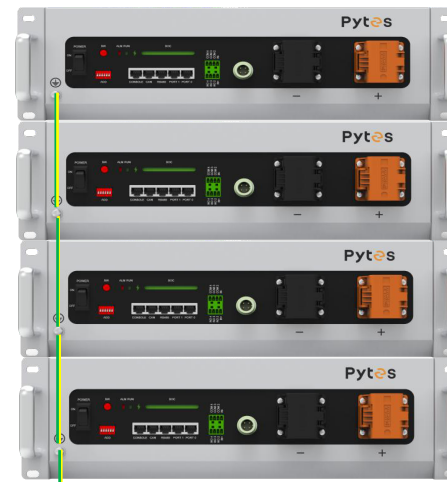
1. Connect Ground Cable

Single Battery



To Home Ground Connection Point

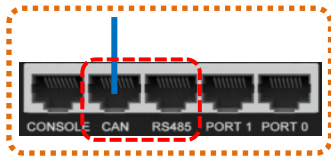
Multi Batteries



To Home Ground Connection Point

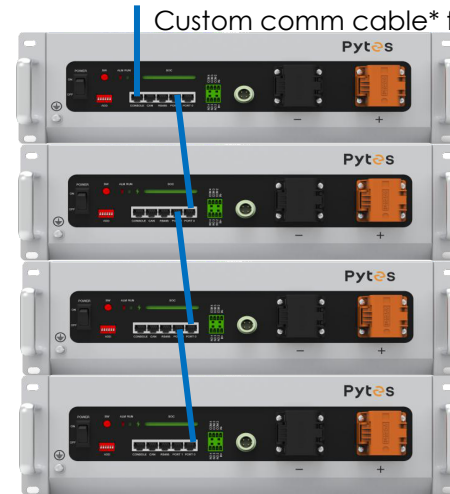
2. Connect Communication Cable

Single Battery



Custom comm cable* from V5°/V5°a CAN/RS485 to Inverter

Multi Batteries



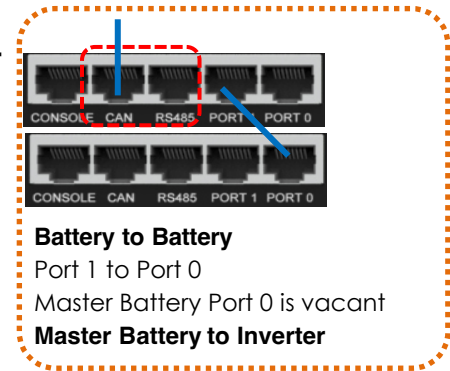
Custom comm cable* from V5°/V5°a CAN/RS485 to Inverter

Master

Slave

Slave

Slave



Battery to Battery

Port 1 to Port 0

Master Battery Port 0 is vacant

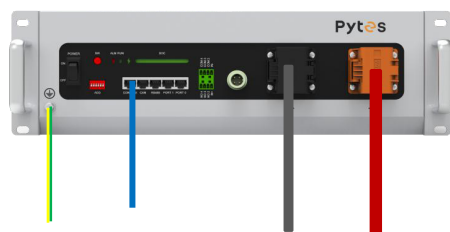
Master Battery to Inverter

Custom communication cable PIN Sequence

Pin Numbe	Battey RS485	Battery CAN	Deye Solarark	Voltronic Hybrid	Voltronic Off-grid	Solis SMA	Afore
1	RS485B		RS485B				
2	RS485A		RS485A				
3	GND				RS485B		RS485A
4		H	H	RS485B		H	H
5		L	L	RS485A	RS485A	L	L
6	GND						RS485B
7	RS485A		RS485A				
8	RS485B		RS485B	GND	GND		
Pin Numbe	Luxpower Hoymiles	SRNE	Growatt	GOODWE	Victron	MUST	Megarevo
1			RS485B	RS485A			
2			RS485A	RS485B			
3							
4	H		H	H			H
5	L	H	L	L		L	L
6		L				H	GND
7		RS485A			H		RS485A
8		RS485B			L		RS485B

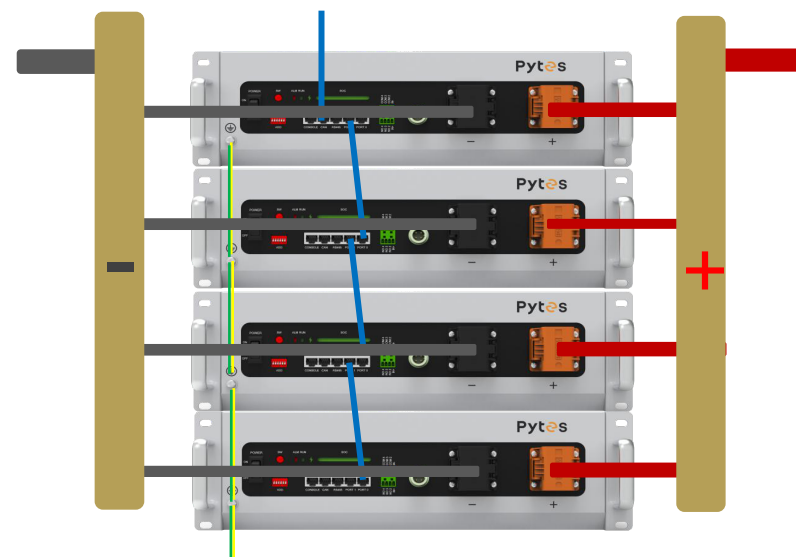
5. Power on the Battery System

Single Battery



1. Turn on Black Power Knob.
2. Short press 1 second Red Power Button.
3. Wait 3 seconds for the running light flash.
4. Battery is working properly now.
5. Turn on external breaker and inverter

Multi Batteries



1. Turn on Black Power Knob of every batteries.
2. Short press 1 second Red Power Button of Master Battery only.
3. Wait 3 seconds for running light of every battery flash one by one.
4. Battery system is working properly now.
5. Turn on external breaker and inverter

Get the most out of your V5°/V5°a

Battery life is the amount of time your battery runs before it needs to be recharged.
Battery lifespan is the amount of time your battery lasts until it needs to be replaced.
Maximize both and you'll get the most out of your battery.

Avoid extreme ambient temperatures

V5°/V5°a is designed to perform well in a wide range of temperatures, with Charge: 0°C~45°C(32°F~113°F) and Discharge: -10°C~50°C(14°F~122°F) as the ideal comfort operation zone.
It's important to avoid exposing your battery to ambient temperatures higher than 50°C(122°F).

Avoid over-discharging your battery

Over discharge will permanently damage battery capacity and is not covered by warranty.
Under certain circumstance, battery will go to over-discharge when working with inverter in certain working mode.
It is essential to set values of low battery SOC and shutdown SOC on inverter.
Inverter will alarm when battery is below the low battery SOC value and will shutdown when battery is below shutdown SOC value.

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Inverter Integration
Video Guide



V5°/V5°a
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