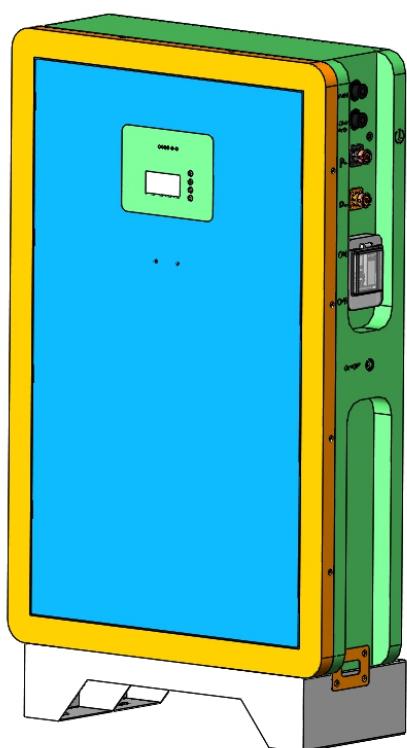


POLO L 51.2V 200AH

BATTERY PACK SPECIFICATION



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1. Introduction

This battery pack System, is applicable both for residential and commercial energy storage system, which is assembled with 3.2V 200Ah lithium iron phosphate cell in 4P16S configuration, And intelligent BMS form 51.2V200Ah lithium battery system. Each pack support 16packs in parallel to easily expand capacity. Do not mix parallel the battery packs of different brands or models.

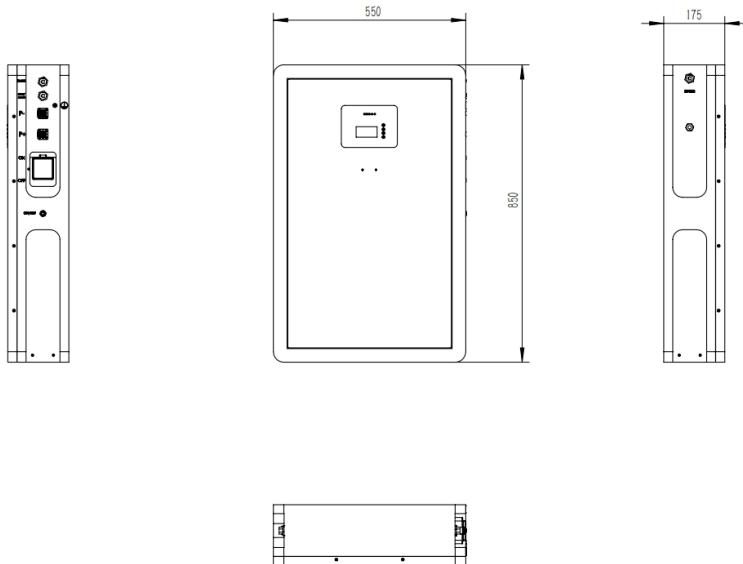
2. Functions

- Battery voltage calculation: 16 battery voltage sampling test, deviation $\pm 20\text{mV}$
- Battery and ambient temperature detection: 4 battery temperature sensors, 1 ambient temperature sensor, 1 MOS temperature sensor, deviation $\pm 2 ^\circ\text{C}$.
- Battery capacity and cycle times: complete a complete charging, discharging cycle to set the actual capacity. Monitor the remaining capacity of the battery with the capacity estimation accuracy within 5% deviation. In addition, the charging and discharging cycle time and the complete charging and discharging cycle time can be configured.
- Smart cell balance: charging and static balance strategies can be flexibly set to effectively extend the service life.

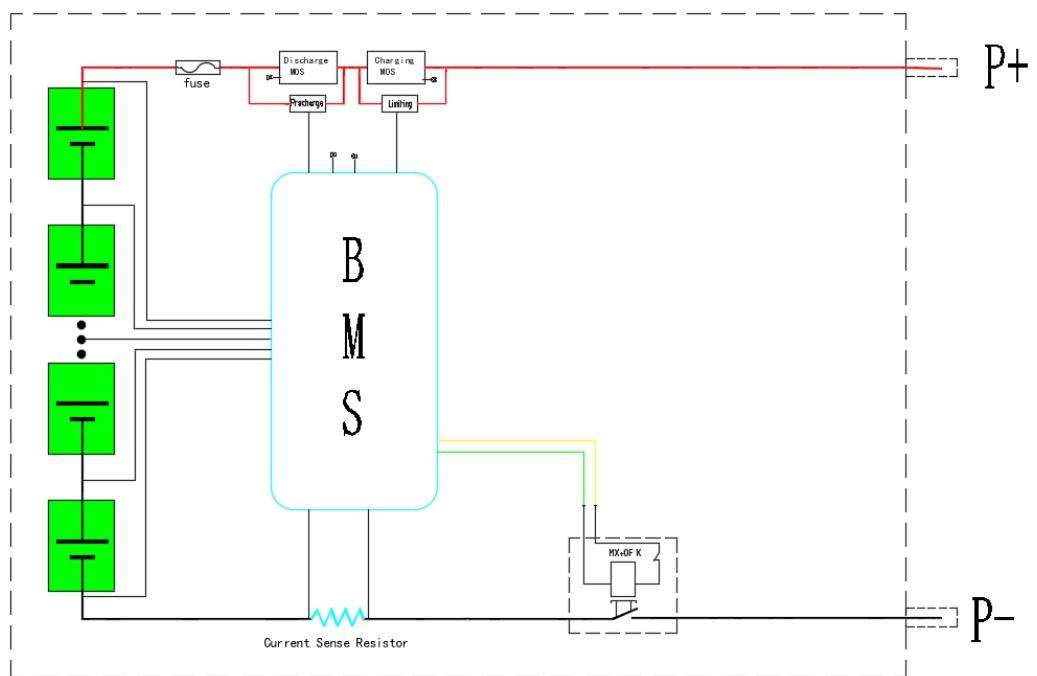
- Communication interface: PC or intelligent front-end can monitor battery data, control operation and set parameters through telemetry, remote signaling, remote adjustment, remote control and other commands. The communication protocol meets the requirements of YD/T 1363.3 and realizes cascade communication
- Historical data recording, saving and reading: when the battery is abnormal, record and save real-time battery status and alarm information. At present, up to 500 historical fault data can be stored.
- Battery management system parameter setting: battery management system parameters, including cell battery over voltage/under voltage, battery total voltage over voltage/under voltage, charge and discharge over current, battery high/low temperature, battery capacity, working mode, charge and discharge limit current, can be set in the battery monitoring system.
- Working mode: charging and discharging current limiting, constant voltage output, direct output and other working modes can be set in the monitoring system
- Multiple protection functions: hardware protection, battery protection, high and low temperature protection, output short circuit protection, etc.

3. Specifications

3.1 Appearance and interface



3.2 Electrical schematic diagram



3.3 Parameters

Items	Specifications
Configuration	4P16S
Nominal Voltage(V)	51.2V
Working Voltage(V)	41.6V~58.4V
Nominal Capacity(Ah)	200Ah
Rated energy(kWh)	10.24KWh
Rated charge/discharge Current(A)	50A @25±2°C
Maximum charging current	100A@25±2°C
Maximum discharge current	100A @25±2°C
Working Temperature	0~40°C(Charge) -10~40°C(Discharge)
Storage temperature and humidity	-10°C~35°C (Within one month of storage) 25±2°C (Within three months of storage)
Dimension(mm)	920×550×205mm
weight	95Kg±3kg
Cycle life	4800 cycles @25 °C 50Acharge and discharge current 90% DOD
IP grade	IP 65
Communication mode	CAN&RS485
Altitude Limited(m)	0-3000m
Humidity(%)	5~80%

3.3 Protection parameters

3.3.1 Individual cell over voltage parameters

Individual cell over voltage parameter				
Functions	Status	Item	Default	Configurable Range
Over voltage warning	ON	Over voltage warning	3500mV	Over voltage warning recovery - over voltage protection
		Over voltage warning recovery	3400mV	3000mV - over voltage warning
		Under voltage warning	2900mV	Under voltage protection - under voltage warning recovery
		Under voltage warning recovery	3000mV	Under voltage warning - 3300mV
over voltage protection	ON	Over voltage protection	3650mV	Over voltage warning - 4500mV
		Over voltage protection recovery	3400mV	Over voltage warning recovery - over voltage protection
		Over voltage recovery condition	1. Individual cell voltage decrease to over voltage recovery threshold. 2. The remaining capacity lower than 96% of the intermittent power supply. Both conditions should be satisfied.	
			Output current $\geq 1A$	

3.3.2 Individual cell low voltage parameters

Individual cell low voltage parameter				
Functions	Status	Item	Default	Configurable Range
under voltage protection	ON	Under voltage protection	2700mV	1500mV - under voltage protection recovery
		Under voltage protection recovery	2900mV	Under voltage protection - under voltage warning
		Under voltage protection condition	When an individual cell gets under voltage protection threshold, BMS maintain communication with inverter for 1 minutes and powered off.	
		Under voltage protection recovery	Input current $\geq 1A$	

3.3.3 Pack over voltage parameters

Pack over voltage parameter				
Functions	Status	Item	Default	Configurable Range
Over voltage warning	ON	Over voltage warning	56.0V	Over voltage warning recovery - over voltage protection
		Over voltage warning recovery	54.0V	53.0V - over voltage warning
		Under voltage warning	46.4V	Under voltage protection - under voltage warning recovery
		Under voltage warning recovery	48.0V	Under voltage warning - 55.0V
Over voltage protection	ON	Over voltage protection	58.4V	Over voltage warning - 60.0V
		Over voltage protection recovery	54.0V	Over voltage warning recovery - over voltage protection
		Over voltage protection recovery conditions	1. Individual cell voltage decrease to over voltage recovery threshold. 2. The remaining capacity is lower than 96% of the intermittent power supply. Both conditions should be satisfied.	
			Output current $\geq 1A$	

3.3.4 Pack low voltage parameters

Pack low voltage parameter				
Functions	Status	Item	Default	Configurable Range
Under voltage protection	ON	Under voltage protection	41.6V	36.0V - under voltage warning recovery
		Under voltage protection recovery	46.0V	Under voltage protection - under voltage warning
		Under voltage protection condition	When the total voltage gets under voltage protection threshold, BMS maintain communication with inverter for 1 minutes and powered off.	
		Under voltage protection recovery conditions	Input current $\geq 1A$	

3.3.5 Cell high/low temperature(charging) parameters

Cell high/low temperature (charging) parameters				
Functions	Status	Item	Default	Configurable Range
Cell temperature (Forbid Charging)	ON	High temperature warning	50°C	High temperature warning recovery - over temperature protection
		High temperature warning recovery	47°C	35°C - high temperature warning
		High temperature protection (charging)	55°C	over temperature protection recovery - 80°C
		High temperature protection recovery	50°C	High temperature warning recovery - over temperature protection
		Low temperature warning	2°C	Under temperature protection - low temperature warning recovery
		Low temperature warning recovery (charging)	5°C	Low temperature warning - 10°C
		Low temperature protection	-10°C	-20°C - Under temperature protection recovery
		Low temperature protection recovery	0°C	Under temperature protection - low temperature warning recovery

3.3.6 Cell high/low temperature(discharging) parameters

Cell high/low temperature (discharging) parameters				
Functions	Status	Item	Default	Configurable Range
Cell temperature (Forbid discharging)	ON	High temperature warning	52°C	High temperature warning recovery - over temperature protection
		High temperature warning recovery	47°C	35 °C ~discharge high temperature alarm
		High temperature protection	55°C	Over temperature warning recovery - 80 °C
		High temperature protection recovery	50°C	High temperature warning recovery - over temperature protection
		Low temperature warning	-10°C	Under temperature protection - low temperature warning recovery
		Low temperature warning recovery	3°C	Low temperature warning - 10°C
		Low temperature protection	-15°C	-30°C - low temperature protection recovery

		Under temperature recovery	0°C	Under temperature protection - low temperature warning recovery
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3.3.7 Ambient high/low temperature parameters

Ambient high/low temperature parameters				
Functions	Status	Item	Default	Configurable Range
Ambient temperature protection	ON	High temperature warning	50°C	High temperature warning recovery - high temperature protection
		High temperature warning recovery	47°C	-20°C - high temperature warning recovery
		High temperature protection	60°C	High temperature protection recovery -80°C
		High temperature protection recovery	55°C	High temperature warning recovery - high temperature protection
		Low temperature warning	0°C	Low temperature protection - low temperature warning recovery
		Low temperature warning recovery	3°C	Low temperature warning - 60°C
		Low temperature protection	-10°C	-30°C - low temperature protection recovery
		Low temperature protection recovery	0°C	Low temperature protection - low temperature warning recovery

3.3.8 MOSFET high/low temperature parameters

MOSFET high/low temperature parameters				
Functions	Status	Item	Default	Configurable Range
MOSFET temperature	ON	High temperature warning	90°C	High temperature warning recovery - high temperature protection
		High temperature warning recovery	85°C	60°C - high temperature warning
		High temperature protection	100°C	High temperature warning - 120°C
		High temperature	85°C	High temperature warning recovery -

		protection recovery		high temperature protection
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3.3.9 Charging current limiting parameters

Charging current limiting parameters				
Functions	Status	Item	Default	Configurable Range
Current limiting (charging)	OFF	Active current limiting	10A	When the charger current > 10A, current limiting activated.
		Passive current limiting		When the charger current > charging over current warning (configurable), current limiting activated.
	ON	Charging current limiting time delay	5 min	After the current limiting being activated, BMS re-check the current to judge whether to maintain current limiting.

3.3.10 Charging over limiting parameters

Charging current limiting parameters				
Functions	Status	Item	Default	Configurable Range
Over current warning (charging)	ON	Over current warning	95A	Charging over current warning recovery - charging over current protection
		Over current warning recovery	90A	0A - charging over current warning
Over current protection (charging)	ON	Over current protection	100A	0A~110A
		Over current protection time delay	10S	Configurable
		Over current protection recovery conditions	BMS detects any output discharge current. After 60 seconds, the protection recovers automatically.	
Effective charging current	Charging current (in)		1000mA	
	Charging current (out)		700mA	

3.3.11 Discharging over limiting parameters

Discharging over current parameters				
Functions	Status	Item	Default	Configurable Range
Over current warning	ON	Over current warning	-95A	Over current protection - over current warning recovery
		Over current warning recovery	-98A	Over current warning -0A
Over current protection	ON	Over current protection	-100A	Transient over current protection - 0A
		Over current protection time delay	10S	Configurable
		Over current protection recovery conditions	BMS detects any input charge current. After 60 seconds, the protection recovers automatically.	

3.3.12 Transient over limiting parameters

Transient over current parameters				
Functions	Status	Item	Default	Configurable Range
Over current protection (Transient)	ON	Over current protection	-150A	Discharge over current protection - 300A
		Over current protection time delay	30mS	Configurable
		Over current protection recovery	BMS detects any input charge current. After 60 seconds, the protection recovers automatically.	
	OFF	Over current lock	Continuously over current for 2 times. The over current lock times exceeded.	
		Over current lock times	5 times	
		Over current lock release	Connected with charger	

3.3.13 Short circuit parameters

Short circuit parameters				
Functions	Status	Item	Default	Configurable Range
Short circuit protection	ON	Short circuit protection current value and time delay	Programmed into the software (can not be edited) Cannot be turned off	
		Short circuit protection recovery	BMS detects any input charge current. After 60 seconds, the protection recovers automatically.	
Effective discharging current	ON	Short circuit protection lock	Continuously short in the output circuit. The over current protection lock times exceeded.	
		Short circuit protection lock times	5 times	
	ON	Short circuit protection lock release	Connected with charger	
Effective discharging current	Discharge current (in)		-1000mA	
	Discharge current (out)		-700mA	

3.3.14 Cell balance parameters

Short circuit parameters					
Functions	Status	Item	Default	Configurable Range	
Cell balance	ON	Standby balance	When there is no charging and discharging current flow, the standby equalization will be activated.		
		Standby time	10 hours	configurable	
Cell balance	ON	Charging equalization	When at the charging or float charging status, the charging equalization will be activated.		
		Activate voltage	3350mV	Configurable	
		Activate voltage difference	30mV		
Cell failure	ON	End voltage	20mV		
		Temperature	According to the temperature range of no equalization (ambient temperature)		
		No equalization high temperature	50°C	Configurable	
Cell failure		No equalization low temperature	0°C		
		Voltage difference	500mV	Configurable	
		Voltage difference recovery	300mV		

3.3.15 Cell balance parameters

Capacity parameters				
Capacity	Nominal capacity		200AH	5-200Ah
	Remaining capacity	Calculated accordingly to the cell voltage		Configurable
	Cycle life accumulated capacity	20%		Cycle life (configurable)
	ON	Remaining capacity warning	15%	
	ON	Remaining capacity protection	8%	Output current flow will be cut off.
Reset button	Power on/activation		When the BMS is in the sleep state, press the 1S reset button, the BMS will be activated, and the LED indicators will turn on in turn, then the BMS will turn into the normal working state	
	Shut down/hibernate		When the BMS is in standby or working state (except charging), press the 3S reset button, the BMS will be hibernated, and the LED indicator lights will turn on in turn, and then the BMS will go into hibernation state;	

3.3.16 Other parameters

Pre-charging	2000ms	0-5000ms	The pre-charging function will be activated once the BMS powered on.			
BMS power consumption	ON	Longest standby time	48 hours (Do not connected with charger, and no effective charging current.)			
<hr/>						
Heating	ON	Start heating temperature	0°C	Configurable		
		Stop heating temperature	10°C			
		Heating function activation	When connected with charger, and the cell temperature reaches the setting value, the heating function activated. Heating function disabled when at standby and discharge status.			
External switch	OFF	When at the standby status, the BMS can be powered on/off through external switches.				
LCD screen	ON	Monitoring software to check the cell voltage, temperature and current.				
Charging activating	ON	1 minutes	The BMS powered off after under voltage protection. Press the button for recovering from protection	Configurable		

POLO L 51.2V200AHLithium ion battery system Specification

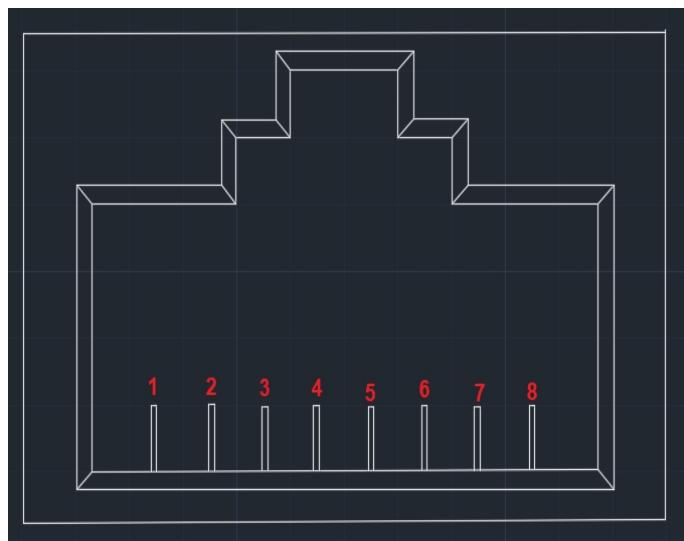
			status and activate output current.	
Compensatin g impedance	Connection fault impedance	10mΩ	Default between 8 and 9	Battery connection line impedance compensation
	Compensation 1	0m Ω	9	Configurable
	Compensation 2	0m Ω	13	

4. Communication

4.1 CAN communication

BMS transmit information through CAN interface. Buad rate 500KBITS/S. CAN interface applies 8P8C connectors. And CAN connector communicates with inverter or CAN TEST. RS485 collect the information. Then CAN transmit the battery pack information to PCS.

CAN connector definition:



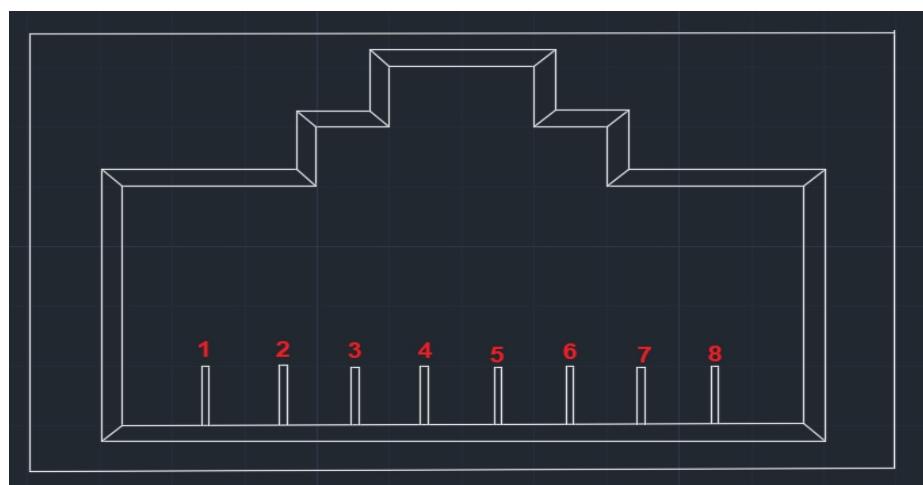
1、2、7、8	NC
4	CAN-L
5	CAN-H
3、6	GND

4.2 RS485

BMS could collect battery pack information through RS485 communication.

Baud rate: 19200bps. RS485 interface applies 8p8c connectors.

RS485 connectors definition:

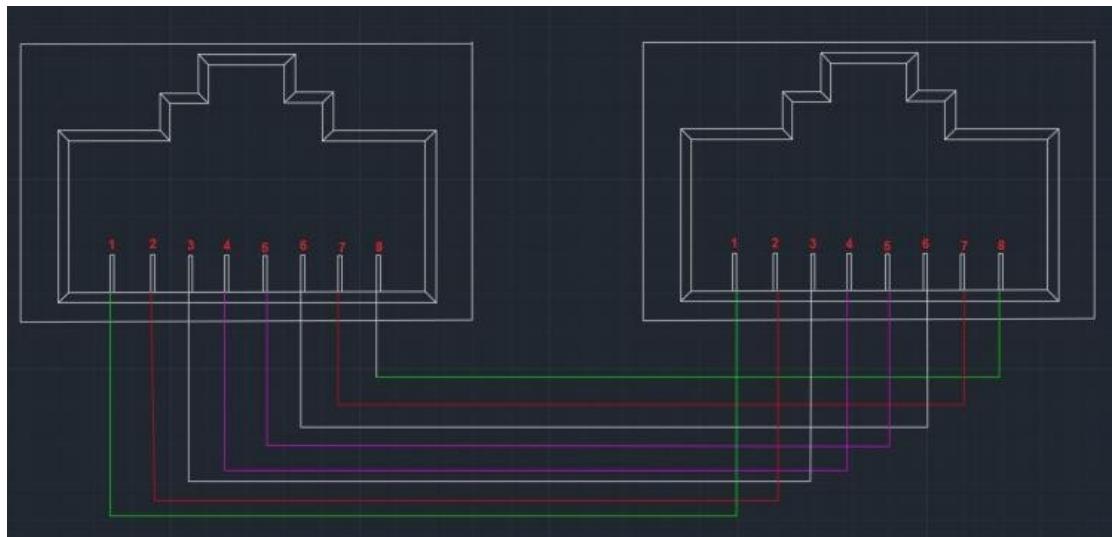


PINS	DEFINITION
1/8	RS485-B
2/7	RS485-A
3/6	GROUND
4/5	Internal communication (NC)

4.3 Parallel

When connected in parallel with RS485 connectors. CAN connectors act as upper communication interface. End devices could get the collected battery information through CAN interface.

RS485 connector connection:



5. Working mode

5.1 Charging mode

When a charger was detected, and the charger voltage is 0.5V+ more than the battery voltage, BMS will turn on the charging MOSFET. And when the charging current reaches the effective charging current value, enters charging mode.

5.2 Discharging mode

When a loads was detected, and the discharging current reaches the effective charging current value, BMS enters discharging mode.

5.3 Standby mode

When the BMS not in charging mode, nor discharging mode, it enters standby mode.

5.4 Power off mode

The BMS enters the shutdown mode after 48 hours of normal standby, battery triggering under voltage protection, key shutdown or external switch shutdown.

Wake-up conditions of shutdown mode:

- 1) Charge activation
- 2) 48V voltage active
- 3) Press key to start

6. LED indicator

6.1 LED lights

One running indicator (Green)

One warning indicator (Red)

And four capacity indicator (Green)

●	●	●	●	●	●
SOC				ALARM	RUN

6.2 Capacity indicators

Status	Charging				Discharging			
	L4 ●	L3 ●	L2 ●	L1 ●	L4 ●	L3 ●	L2 ●	L1 ●
0-25%	OFF	OFF	OFF	Blink	OFF	OFF	OFF	Green
25%-50%	OFF	OFF	Blink	Green	OFF	OFF	Green	Green
50%-75%	OFF	Blink	Green	Green	OFF	Green	Green	Green
≥75%	Blink	Green	Green	Green	Green	Green	Green	Green
Running	Green				Blink			

6.3 Lights blinking explanation A

Blink Type	Lighten TIME	OFF TIME
Blink A	0.25S	3.75S
Blink B	0.5S	0.5S
Blink C	0.5S	1.5S

6.4 Running status indicators

SYSTEM	Running	RUN	ALM	SOC				REMARK
		●	●	●	●	●	●	
OFF	Sleeping	OFF	OFF	OFF	OFF	OFF	OFF	OFF
STANDBY	Running	Blink A	OFF	OFF	OFF	OFF	OFF	Standby
CHARGE	Running	Green	OFF	According to the remaining capacity				LED Blink B
	Over current warning	Green	Blink B	According to the remaining capacity				LED Blink B
	Over voltage protection	Blink A	OFF	OFF	OFF	OFF	OFF	
	Temp And over current protection	Blink A	OFF	OFF	OFF	OFF	OFF	
DISCHARGE	Running	Blink C	OFF	According to the remaining capacity				
	warning	Blink C	Blink C	According to the remaining capacity				
	Temp Over current, short circuit protection	OFF	RED	OFF	OFF	OFF	OFF	Stop discharging, and there is no action to force sleep after 48h when the mains power is offline
	Under voltage protection	OFF	OFF	OFF	OFF	OFF	OFF	No discharge

6.5 Installation and commissioning

Item	Quantity	Photo
Battery pack	1 PCS	
M5*10 countersunk screw	10pcs	
M6*10 Phillips hex screw with spring washer	4pcs	
Expansion screw	6pcs	
1.5m Power harness (positive and negative pair)	1pcs	
1.5m Super Category 6 network cable	1pcs	

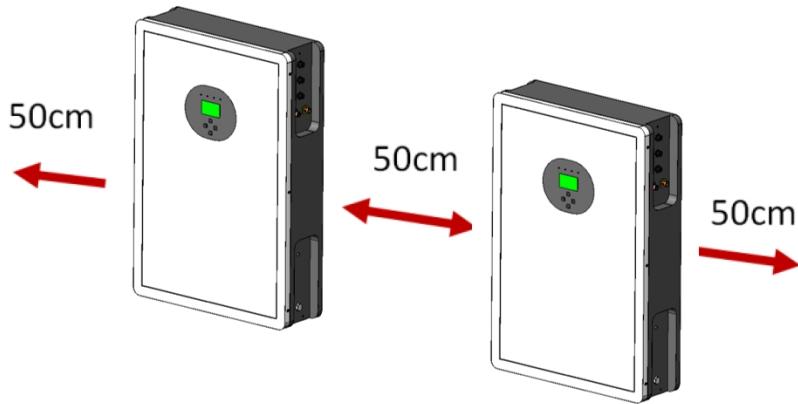
6.6 Installation instructions

- Check battery status before installation
1. The battery is free of obvious deformation and warpage
 2. No alarm message when the battery is turned on
(If there is any abnormality, please contact the SEPLOS after-sales team)



7. Safety precautions

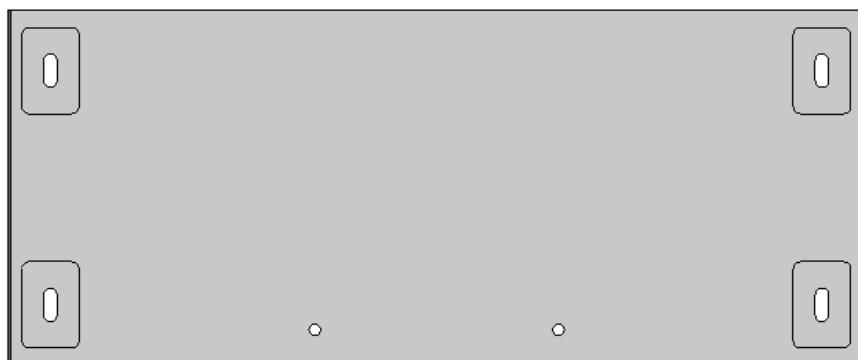
- Do not install the battery on flammable building materials
- The installation site should be kept ventilated, and the ground and walls should be dry for the best
- The temperature should be between 10 °C and 30 °C to maintain optimal operating conditions.
- There should be some free space around the battery to dissipate heat (as shown in the figure below), suitable for installation on concrete surfaces or other non flammable surfaces.
- The included angle of the expansion screw hole should be 10 ° upward to prevent the expansion screw from falling off.



8. Install fixed accessories

8.1 Install the fixed base

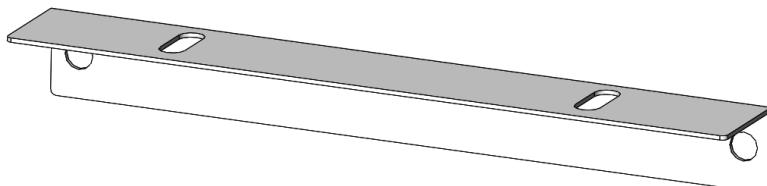
Fix two expansion screws diagonally on the ground (if there is a long-term earthquake or vibration in the area, install four expansion screws for fixation), Perforated position side facing outward



8.2 Installing back support

Use the back paper circle to position (890.5mm high from the wall corner, 126mm apart)

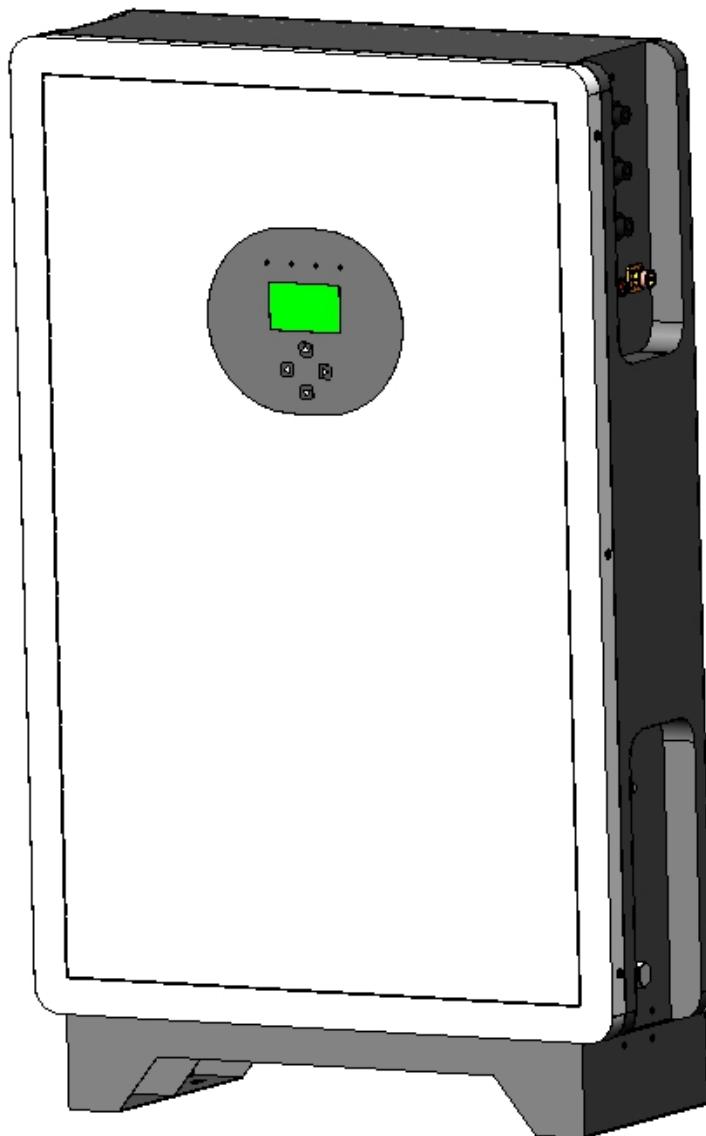
Fix the expansion screw and install the back structure bracket c



The back of the POLO-L is fixed with a 2xM6 * 10 Phillips hex screw with spring washer to secure the back structural bracket B.

8.3Fixed polo L

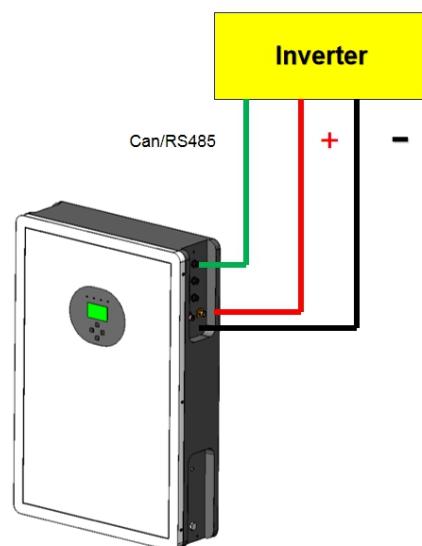
Place the POLO-L on the base using the platform step on the POLO-L side, and use a 2X structural bracket A/8XM5 * 10 countersunk screw.



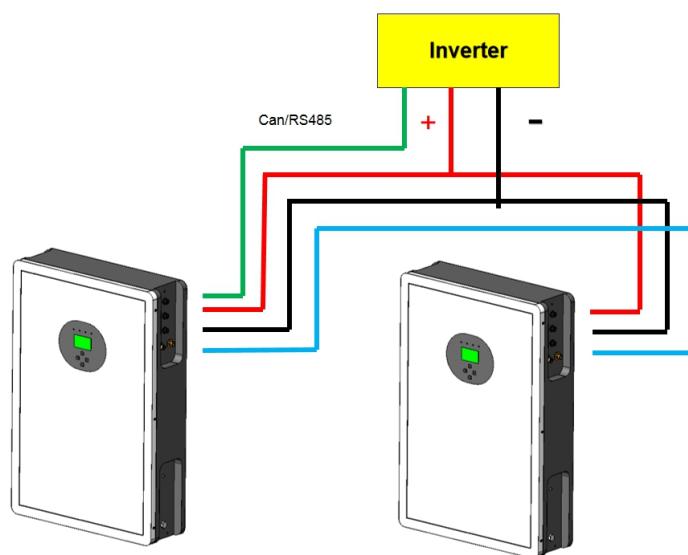
8.4 Harness connection

The battery should be turned off before connecting.

1. A single unit is connected using a harness as shown in the figure. After the connection is successful, start the machine and select the corresponding protocol on the battery upper computer.

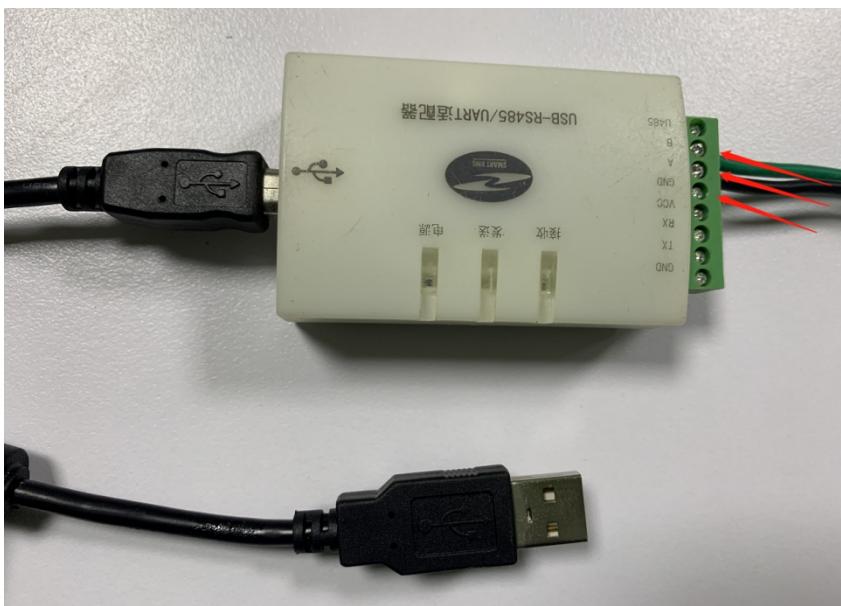


Multiple parallel connections are shown in the figure

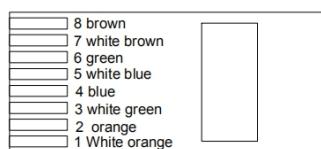


8.5 Upper computer software

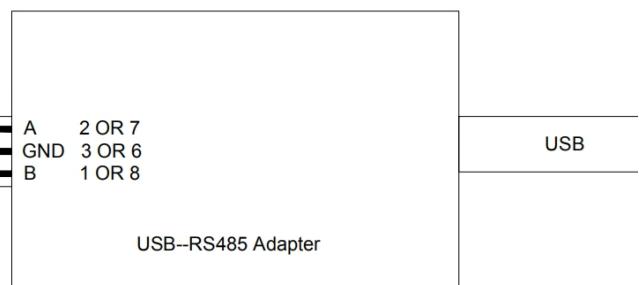
The battery pack can be remotely monitored through the battery monitoring software. Using this software, you can monitor battery voltage, single battery voltage, SOC status, battery temperature, and voltage difference in real time. Through history, you can then check the status of the battery. First, connect PUSUNG to the host computer using a USB-RS485 adapter. If the adapter requires wiring, follow the wiring diagram.



RJ45



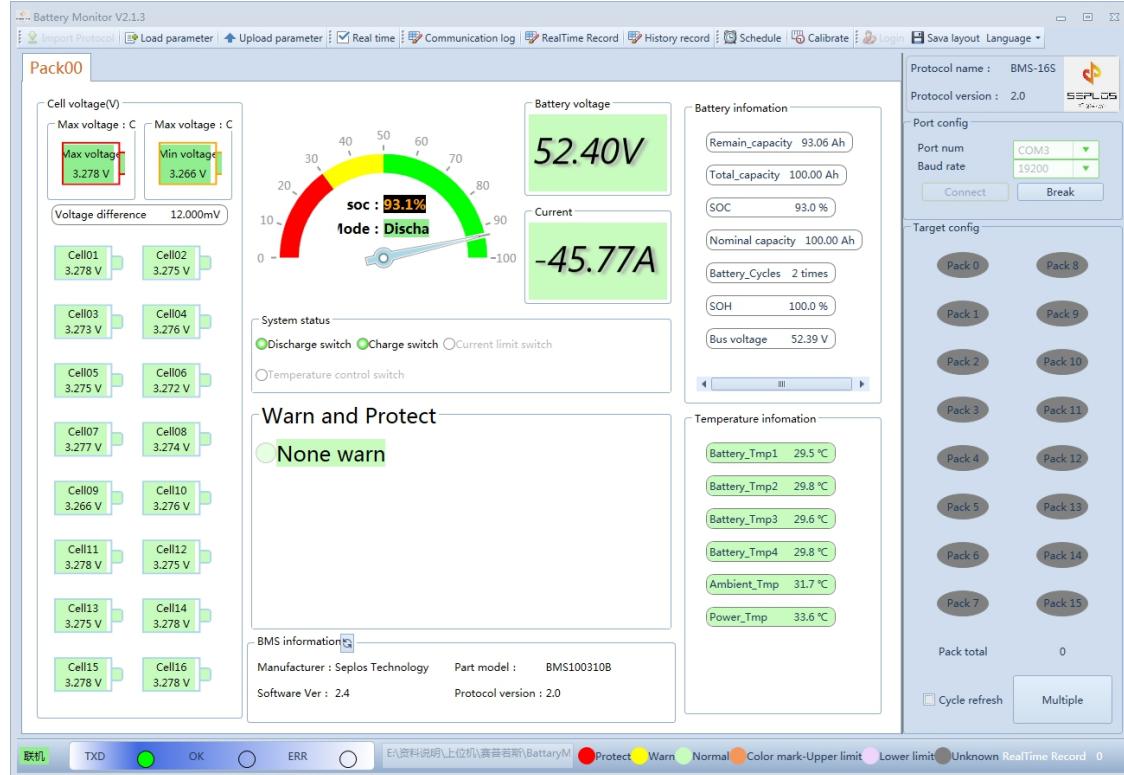
RJ45



Wiring Diagram

Note: Download the software installation file at Google drive with this link:

<https://drive.google.com/drive/folders/10pxgNLHovcDZRVGrCzsSkfecBrRw-AdW?usp=sharing>



Software interface

8.6 Compatible inverter

The POLO-L battery is programmed with multiple CAN protocols to be compatible with multiple brands of inverters. To ensure perfect operation of the battery module, it is best to use the compatible inverters listed below. Note: Different models of inverters may have different protocols and designs. Even for certain models of the same brand, firmware updates are required for perfect communication.

CAN communication matching list:

- CGoodwe-V1.5
- Pylon-V1.3
- Growatt-V1.05
- Victron CANBUS_PROTOCOL
- LUXPOWER_CAN Protocol

- Sofar_REV5
- SMA_EN_10

Communicate inverters list (CAN Protocol):

- ✓ Goodwe
- ✓ Growatt
- ✓ Victron
- ✓ Voltronic (Only RS485 protocol is supported. Please confirm with your sales representative before purchasing)
- ✓ Phocos (Only RS485 protocol is supported. Please confirm with your sales representative before purchasing)
- ✓ LUXPOWER
- ✓ Sofar
- ✓ DEYE
- ✓ Sermatec
- ✓ RENAC
- ✓ TBB POWER
- ✓ SOLIS
- ✓ SMA
- ✓ FoxESS

Inverter settings: The battery information will be synchronized to the inverter through CAN/R485 communication. If the inverter does not support CAN/RS485 communication, the following parameters need to be modified before connecting the battery system.

Item	Parameter
Battery type	Lithium mode
Charging type	constant voltage
Constant current cutoff voltage	58.1V
Floating charge voltage	55V
Floating charge time	1Hr

Note:

1. Make sure to double check the float voltage after completing Assistants, and if necessary set it back to 55.0V.
2. For off-grid use: ignore the 'BMS assistant required' warning.

Inverter Settings

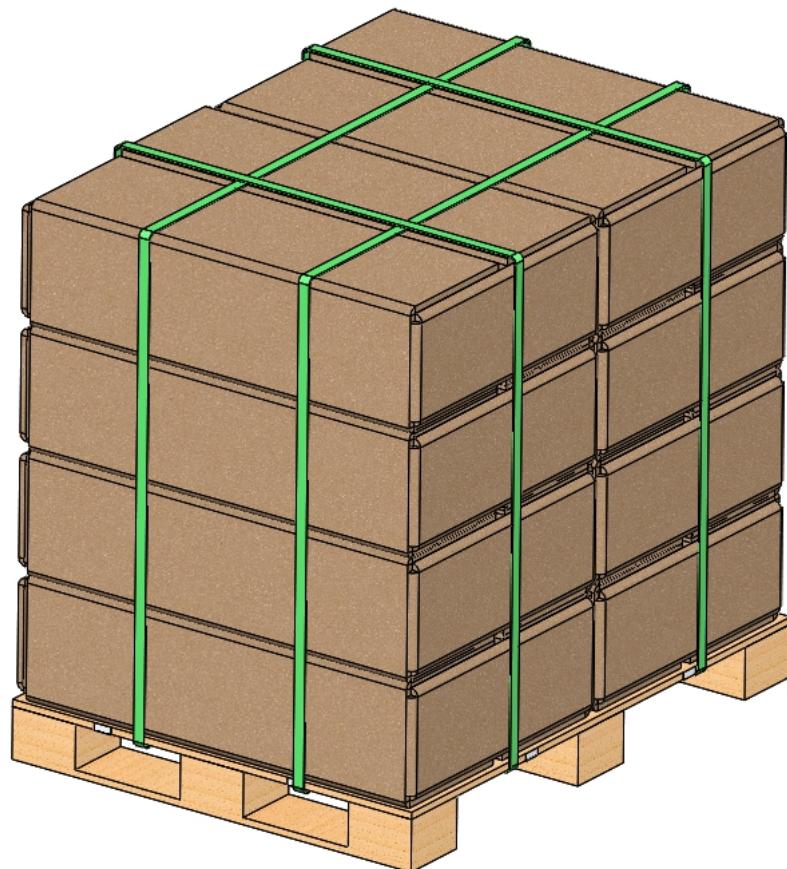
Parameter	Setting
DC input low shut-down	43V
DC input low restart	47V
DC input low pre-alarm*	47V

9. Package

Packed in a dry, dust proof and moisture-proof packaging box. The products shall be packed with plastic film/EPE and packed in cartons.

Specification: L 1.25m * W0.95m * H 1.2m Weight: 800kg

Package quantity: Eight sets



10. Safety precaution

- Do not use the pack if there's any deformation.
- Do not stack up the battery.
- Please be notice the polarity of the battery and port.
- Make sure the insulation of equipment, use the tool and instrument correctly.
- The installation site should stay away from fire and Inflammable,keep ventilating and dry.
- Do not disconnect the battery terminals when its running.
- Not allow non-technology staff to open all of function module.
- Please fully charge a new battery pack, or a long-time-no-use battery pack with a designed charger.
- Do not uninstall,open, extrude, bend, impale or break the battery.
- Do not refit the battery or connect to other object, do not immerse the battery into any water, sea water, or drinks and other liquids.stay away from fire, explosive material or other dangerous item.
- Do not allow the battery short circuit, do not any metal or conductor contact the terminal.
- Do not let the battery fall. if does, especially on the solid surface, please contact the service center.
- If there is any signs of Electrolyte leakage, do not let it get any direct contact with your bare skin or eyes. If it happened, use plenty of water to clean up or ask doctor for help.
- Do not uninstall the battery cell, or there will cause internal short even fire disaster or other issue.
- Do not burn the battery or throw it to the fire, otherwise, there will be cause the fire of the battery.