

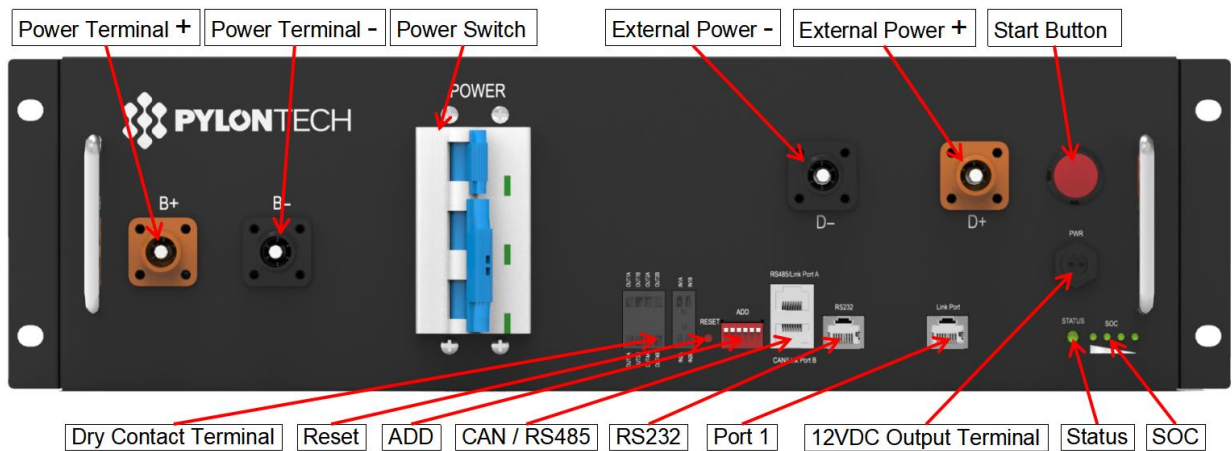
2.2.3 Control Module (internal power supply)

Control Module is **internal** power supply.



No.	Product Type	SC1000-100S
1	Related Product	H1/H2
2	Controller Working Voltage	200~1000Vdc
3	System Operation Voltage(Vdc)	200~1000
4	Charge Current(Max.)(A)	100
5	Discharge Voltage(Vdc)	200~1000
6	Discharge Current(Max.)(A)	100
7	Self-comsumption Power(W)	8
8	Dimension(W*D*H,mm)	442*390*132
9	Communication	RS485\CAN
10	Protection Class	IP20
11	Weight(kg)	8.5
12	Operation Life(Years)	15+
13	Operation Temperature(°C)	-20~65
14	Storage Temperature(°C)	-40~80
15	Product Certificate	TUV, CE

Control Module (SC1000-100S) Front Interface



Power Terminal +/-

To connect battery power cables in series.

Power Switch

Switch the battery system's (control module and high voltage DC power) ON/OFF.



Caution: When the breaker is tripped off because of over current or short circuit, must wait after 30min to turn on it again, otherwise may cause the breaker damage.

External Power Terminal +/-

Connect battery system with Inverter.

Dry Contact Terminal

Dry Contact Terminal: provided 2 input and 4 output dry contact signal.

Reset

Reset Button: Long press this button to restart the battery system.

ADD

ADD Switch is a 6 bit dial switches to manually distribute the communication address of the battery system. Nether position is OFF, means "0". Upper position is ON, means "1". For BMS, 1st bit to 5th bit is for address allocation, and the 6th bit dial switch support a 120Ω resistance (Terminal Resistance).



Start

Start Button: press more than 5sec until the buzzer rings, to start the battery module, power output ready.



开机：长按至蜂鸣器响

Power on: Press and hold $\geq 5\text{sec}$ till the buzzer rings

CAN / RS485

CAN Communication Terminal: (RJ45 port) follow CAN protocol, for communication between battery system and Inverter.

RS485 Communication Terminal: (RJ45 port) follow RS485 protocol, for communication between battery system and Inverter.

RS232 Terminal

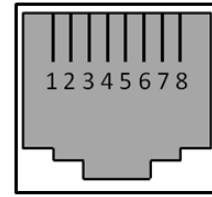
Console Communication Terminal: (RJ45 port) follow RS232 protocol, for manufacturer or professional engineer to debug or service.

Link Port 1

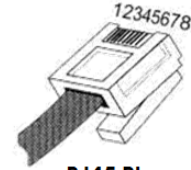
Link Port 1 Communication Terminal: (RJ45 port) follow CAN protocol, for communication between multiple serial battery modules and control module.

Definition of RJ45 Port Pin

No.	CAN	RS485	RS232 Pin
1	---	---	---
2	GND	---	---
3	---	---	TX
4	CANH	---	---
5	CANL	---	---
6	---	GND	RX
7	---	RS485A	---
8	---	RS485B	GND



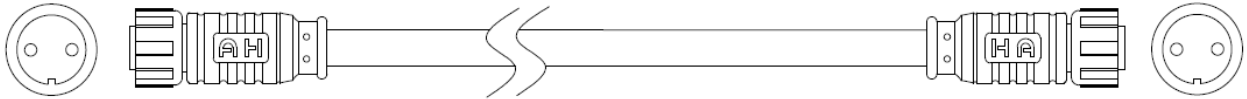
RJ45 Port



RJ45 Plug

12VDC Output Terminal

Power supply for 3rd level control module, with 12VDC cable:



Status

Status light: to show the battery module's status (RUN ●, Alarm and Protection ●).

LED Status Indicators

✧ Battery capacity indicator: 4 green lamps, each light represent 25% capacity.

LED Indicators Instructions

Battery Statuses	Protection / Alarm / Normal	RUN	ALM	PRC	Capacity SOC				Descriptions
									
Shut Down		Off	Off	Off	Off	Off	Off	Off	All off
Sleep	Normal	Flash 1	Off	Off	Off	Off	Off	Off	Indicates Sleep Mode, to save the power.
Standby	Normal	Flash 1	Off	Off	Off	Off	Off	Off	Indicates save power mode.
	Alarm	Off	Light	Off	Off	Off	Off	Off	Indicates the battery is low.
Standby	Normal	Flash 1	Off	Off	Off	Off	Off	Off	Indicates Standby
Charge	Normal	Light	Off	Off	The highest capacity indicator LED flashes (flash 2), others lighting				The highest capacity indicator LED flashes (flash 2), others lighting
	Alarm	Off	Light	Off	The highest capacity indicator LED flashes (flash 2), others lighting				
	Protection	Off	Off	Light	Off	Off	Off	Off	Stop charging, PRC lighting
Discharge	Normal	Flash 3	Off	Off	Indicate based on capacity				Indicate based on capacity
	Alarm	Off	Light	Off					Stop discharging, PRC lighting
	Protection	Off	Off	Light					Stop discharging, PRC lighting
Abnormal	Protection	Off	Off	Light	Off	Off	Off	Off	Stop charging/discharging, PRC lighting

Note: The flashing instructions, flash 1 –0.25s light / off 3.75 seconds; flash 2 - 0.5s light / 0.5s off; flash 3 - 0.5s light / 1.5s off.