



FOGSTAR ENERGY

SEPLUS

V4 DIY  
KIT



# 51.2V DIY KIT

## 1. INTRODUCTION

This versatile battery pack system is suitable for both residential and commercial energy storage applications. It utilizes 3.2V LiFePO<sub>4</sub> cells arranged in a 16S1P configuration and is equipped with a V3 SEPLoS Smart BMS. Each pack can be expanded in parallel with up to 16 additional packs to effortlessly increase capacity.

Note: It's important to avoid mixing battery packs from different brands or models in parallel.

## 2. FUNCTIONALITY

Battery Voltage Calculation:

- 16-point battery voltage sampling with a tolerance of  $\pm 20\text{mV}$ .

Temperature Monitoring:

- 4 battery temperature sensors, 1 ambient temperature sensor, and 1 MOS temperature sensor.
- Temperature deviation tolerance of  $\pm 2^\circ\text{C}$ .

Battery Capacity and Cycle Times:

- Full charge and discharge cycles to determine actual capacity.
- Capacity estimation accuracy within 5% deviation.
- Customisable charging and discharging cycle times.

Smart Cell Balancing:

- Flexible charging and static balancing strategies to extend battery life.

Communication Interface:

- PC or intelligent front-end for monitoring, control, and parameter settings via telemetry, remote signalling, remote adjustment, and remote control.
- Adheres to YD/T 1363.3 communication protocol for cascade communication.

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## 2. FUNCTIONALITY

Historical Data Recording:

- Real-time battery status and alarm information recorded during abnormal conditions.
- Storage capacity for up to 500 historical fault data.

Battery Management System Parameter Settings:

- Customizable parameters include:
  - Cell battery over/under voltage
  - Battery total voltage over/under voltage
  - Charge and discharge over current
  - Battery high/low temperature
  - Battery capacity
  - Working mode
  - Charge and discharge limit current

Working Modes:

- Configurable modes such as charging and discharging current limiting, constant voltage output, and direct output.

Multiple Protection Functions:

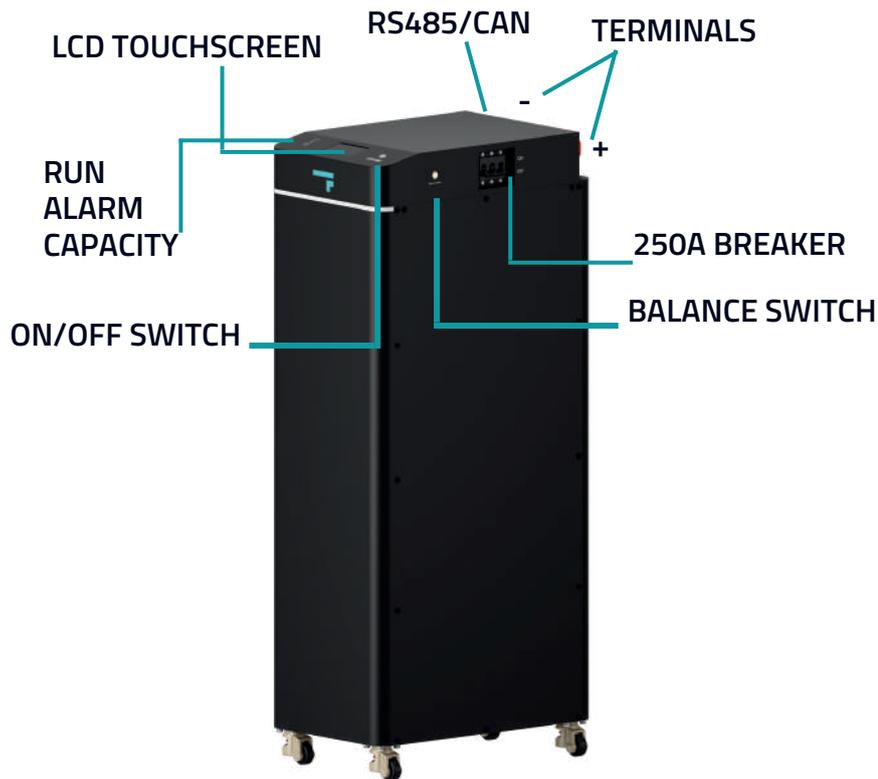
- Hardware protection, battery protection, high and low temperature protection, output short circuit protection, and more.



Download the Seplos  
Battery Monitoring  
Software here

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## 3. APPERANCE AND FUNCTIONALITY



All products are packed in a dry, dust proof and moisture-proof box.

Packaging Specification: L 97cm x W50cm x H 36cm

Weight: 113kg

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## 3.1 SPECIFICATIONS

### 51.2V 14.3kWh 280Ah LiFePO4 Cells

Rated energy (kWh)	14.3 kWh
Configuration	1P16S
Nominal voltage (V)	51.2 V
Working voltage (V)	42 V ~ 58.4 V
Nominal capacity (Ah)	280 Ah
Rated charge/discharge current (A)	100 A / 200 A @ 25 ± 2 °C
Maximum charging current	200 A @ 25 ± 2 °C
Maximum discharging current	200 A @ 25 ± 2 °C
Working temperature	0 ~ 40 °C (Charge), -20 ~ 40 °C (Discharge)
Humidity (%)	5 ~ 95%
Altitude limited (m)	0 ~ 3000 m
Weight (Kg)	113 Kg ± 3 Kg
Dimension (mm)	817 × 412 × 267 mm
Storage temperature and humidity	-10 °C ~ 35 °C (within one month of storage), 25 ± 2 °C (within three months of storage), 65% ± 20% RH
Cycle life	6000 cycles
IP grade	IP20
Communication mode	CAN & RS485

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## 3.2 SPECIFICATIONS

### 51.2V 15.2kWh 305Ah LiFePO4 Cells

Rated energy (kWh)	15.2 kWh
Configuration	1P16S
Nominal voltage (V)	51.2 V
Working voltage (V)	42 V ~ 58.4 V
Nominal capacity (Ah)	305 Ah
Rated charge/discharge current (A)	100 A / 200 A @ 25 ± 2 °C
Maximum charging current	200 A @ 25 ± 2 °C
Maximum discharging current	200 A @ 25 ± 2 °C
Working temperature	0 ~ 40 °C (Charge), -20 ~ 40 °C (Discharge)
Humidity (%)	5 ~ 95%
Altitude limited (m)	0 ~ 3000 m
Weight (Kg)	113 Kg ± 3 Kg
Dimension (mm)	817 × 412 × 267 mm
Storage temperature and humidity	-10 °C ~ 35 °C (within one month of storage), 25 ± 2 °C (within three months of storage), 65% ± 20% RH
Cycle life	3500 cycles
IP grade	IP20
Communication mode	CAN & RS485

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## 3.3 SPECIFICATIONS

### 51.2V 16kWh 314Ah LiFePO4 Cells

<b>RATED ENERGY (KWH)</b>	16 kWh
<b>CONFIGURATION</b>	1P16S
<b>NOMINAL VOLTAGE (V)</b>	51.2 V
<b>WORKING VOLTAGE (V)</b>	42 V ~ 58.4 V
<b>NOMINAL CAPACITY (AH)</b>	314 Ah
<b>RATED CHARGE/DISCHARGE CURRENT (A)</b>	100 A / 200 A @ 25 ± 2 °C
<b>MAXIMUM CHARGING CURRENT</b>	157 A @ 25 ± 2 °C (limited by MB31 cell discharge)
<b>MAXIMUM DISCHARGING CURRENT</b>	157 A @ 25 ± 2 °C (limited by MB31 cell discharge)
<b>WORKING TEMPERATURE</b>	0 ~ 40 °C (Charge), -20 ~ 40 °C (Discharge)
<b>HUMIDITY (%)</b>	5 ~ 95%
<b>ALTITUDE LIMITED (M)</b>	0 ~ 3000 m
<b>WEIGHT (KG)</b>	113 Kg ± 3 Kg
<b>DIMENSION (MM)</b>	817 × 412 × 267 mm
<b>STORAGE TEMPERATURE AND HUMIDITY</b>	-10 °C ~ 35 °C (within one month of storage), 25 ± 2 °C (within three months of storage), 65% ± 20% RH
<b>CYCLE LIFE</b>	8000 cycles
<b>IP GRADE</b>	IP20
<b>COMMUNICATION MODE</b>	CAN & RS485

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## 4. BMS PROTECTION PARAMETERS

### 4.1 INDIVIDUAL CELL OVER VOLTAGE PARAMETERS

INDIVIDUAL CELL OVER VOLTAGE PARAMETER				
FUNCTIONS	STATUS	ITEMS	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 $\geq 1A$	

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## 4. BMS PROTECTION PARAMETERS

### 4.2 INDIVIDUAL CELL LOW VOLTAGE PARAMETERS

INDIVIDUAL CELL LOW VOLTAGE PARAMETERS				
FUNCTIONS	STATUS	ITEMS	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 an undervoltage protection threshold, BMS maintain communication with inverter for 1 minute and powers off.	
		Under voltage protection recovery	Input current $\geq$ 1A	

### 4.3 PACK LOW VOLTAGE PARAMETERS

PACK LOW VOLTAGE PARAMETERS				
FUNCTIONS	STATUS	ITEMS	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 reaches the under voltage protection threshold, the BMS maintains communication with the inverter for 1 minute and powers off.	
		Under voltage protection recovery	Input current $\geq$ 1A	

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## 4. BMS PROTECTION PARAMETERS

### 4.4 PACK OVER VOLTAGE PARAMETERS

PACK OVER VOLTAGE PARAMETERS				
FUNCTIONS	STATUS	ITEMS	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	57.6V	Over voltage warning - 60.0V
		Over voltage protection recovery	54.0V	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 is lower than 96% of the intermittent power supply. Both conditions should be satisfied.	
			Output current $\geq$ 1A	

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## 4. BMS PROTECTION PARAMETERS

### 4.5 CELL HIGH/ LOW TEMPERATURE (CHARGING) PARAMETERS

CELL HIGH/LOW TEMP CHARGING PARAMETERS				
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE
CELL TEMPERATURE WARNING (CHARGING)	ON	High temperature warning	50°C	High temperature warning recovery high temperature protection
		High temperature warning recovery	47°C	35°C - high temperature warning
		High temperature protection (charging)	55°C	80°C - high temperature recovery
		High temperature protection recovery	50°C	High temperature warning recovery high temperature protection
		Low temperature warning	2°C	Low temperature protection - low temperature warning
		Low temperature warning recovery (charging)	5°C	-10°C Low temperature warning
		Low temperature protection	-10°C	-20°C Low temperature protection recovery
		Low temperature protection recovery	0°C	Low temperature protection - low temperature warning recovery

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## 4. BMS PROTECTION PARAMETERS

### 4.6 CELL HIGH/ LOW TEMPERATURE (DISCHARGING) PARAMETERS

CELL HIGH/LOW TEMP DISCHARGING PARAMETERS				
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE
CELL TEMPERATURE WARNING (DISCHARGING)	ON	High temperature warning	52°C	High temperature warning recovery high temperature protection
		High temperature warning recovery	47°C	80°C - high temperature warning
		High temperature protection (charging)	55°C	High temperature warning recovery - high temperature protection
		High temperature protection recovery	50°C	High temperature warning recovery high temperature protection
		Low temperature warning	-10°C	Low temperature protection - low temperature warning
		Low temperature warning recovery (charging)	3°C	-10°C Low temperature warning
		Low temperature protection	-15°C	-30°C Low temperature protection recovery
		Low temperature protection recovery	0°C	Low temperature protection - low temperature warning recovery

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## 4. BMS PROTECTION PARAMETERS

### 4.7 AMBIENT HIGH/LOW TEMPERATURE PARAMETERS

CELL HIGH/LOW TEMP DISCHARGING PARAMETERS				
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE
CELL TEMPERATURES	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 (charging)	60°C	High temperature warning recovery -high temperature protection 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
		Low temperature warning recovery (charging)	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

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## 4. BMS PROTECTION PARAMETERS

### 4.8 MOSFET HIGH/LOW TEMPERATURE PARAMETERS

MOSFET HIGH/LOW TEMPERATURE PARAMETERS				
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE
MOSFET TEMPERATURE	ON	High temp warning	90°C	High temperature warning recovery high temperature protection
		High temp warning recovery	85°C	60°C - high temperature warning
		High temperature protection	100°C	120°C - high temperature warning
		High temperature protection recovery	85°C	High temperature warning recovery high temperature protection

### 4.9 CHARGING CURRENT LIMITING PARAMETERS

CHARGING CURRENT LIMITING PARAMETERS				
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE
CURRENT LIMITING (CHARGING)	OFF	Active current limiting	10A	When the charger current is > 10A, current limiting is activated.
	ON	Passive current limiting		When the charger current > charging over current warning (configurable), current limiting activated.
		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.

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## 4. BMS PROTECTION PARAMETERS

### 4.10 CHARGING OVER LIMITING PARAMETERS

CHARGING OVER LIMITING PARAMETERS				
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE
OVERCURRENT WARNING (CHARGING)	ON	Over current warning	200A	Charging over current warning recovery charging over current protection
		Over current warning recovery	195A	0A - charging over current warning
OVERCURRENT PROTECTION (CHARGING)	ON	Over current protection	210A	0A~150A
		Over current protection time delay	10S	Configurable
		Overcurrent 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	

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## 4. BMS PROTECTION PARAMETERS

### 4.11 DISCHARGING OVER LIMITING PARAMETERS

DISCHARGING OVER LIMITING PARAMETERS				
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE
OVERCURRENT WARNING	ON	Over current warning	-205A	Over current protection-overcurrent warning recovery
		Over current warning recovery	-203A	0A - charging over current warning
OVERCURRENT PROTECTION	ON	Over current protection	-210A	Transient over current protection - 0A
		Over current protection time delay	10S	Configurable
		Overcurrent protection recovery conditions	BMS detects any input charge current. After 60 seconds, the protection recovers automatically.	

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## 4. BMS PROTECTION PARAMETERS

### 4.12 TRANSIENT OVER LIMITING PARAMETERS

TRANSIENT OVER LIMITING PARAMETERS					
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE	
OVERCURRENT PROTECTION (TRANSIENT)	ON	Over current protection	-300A	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		

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## 4. BMS PROTECTION PARAMETERS

### 4.13 SHORT CIRCUIT PARAMETERS

SHORT CIRCUIT PARAMETERS					
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE	
SHORT CIRCUIT PROTECTION	ON	Short circuit protection current value and time delay	Programmed into the software (cannot be edited) Cannot be turned off.		
		Short circuit protection recovery	BMS detects any input charge current. After 60 seconds, the protection recovers automatically.		
	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		
		Short circuit protection lock release	Connected with charger		
	EFFECTIVE DISCHARGING CURRENT	Discharge current (in)		-1000mA	
Discharge current (out)		-700mA			

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## 4. BMS PROTECTION PARAMETERS

### 4.14 CELL BALANCE PARAMETERS

SHORT CIRCUIT PARAMETERS					
FUNCTIONS	STATUS	ITEMS	DEFAULT	CONFIGURABLE RANGE	
CELL BALANCE	ON	Standby balance	When there is no charging and discharging current flow, the stand by equalisation will be activated.		
		Standby time	10 hours	Configurable	
	ON	Charging equalisation	When at the charging or float charging status, the charging equalisation will be activated.		
	BALANCE CONDITIONS	Activate voltage	3350mV	Configurable	
		Activate voltage difference	30mV		
		End voltage	20mV		
	ON	Temperature	According to the temperature range of no equalisation (ambient temperature).		
		No equalisation high temperature	50°C	Configurable	
		No equalisation low temperature	0°C		
	CELL FAILURE	ON	Voltage difference	500mV	Configurable
Voltage difference recovery			300mV		

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## 4. BMS PROTECTION PARAMETERS

### 4.15 CAPACITY PARAMETERS

CAPACITY PARAMETERS				
CAPACITY	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 a hibernation state.	

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## 4. BMS PROTECTION PARAMETERS

### 4.15 OTHER PARAMETERS

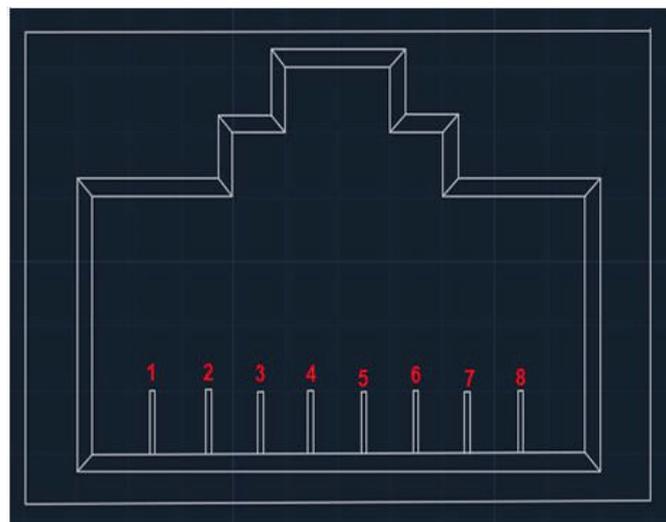
OTHER PARAMETERS				
PRE-CHARGING	2000ms	0-5000ms	The pre-charging function will be activated once the BMS powers on.	
BMS POWER CONSUMPTION	ON	Longest standby time	48 hours.	
HEATING	ON	Start heating temperature	0°C	
		Stop heating temperature	10°C	
		Heating function activation	When connected with 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 minute	The BMS powered off after under voltage protection. Press the button for recovering from protection status and activate output current.	Configurable
Compensating impedance	Connection fault impedance	10mΩ	Default between 8 and 9	Battery connection line impedance compensation
	Compensation 1	0mΩ	9	Configurable
	Compensation 2	0mΩ	13	

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## 5. COMMUNICATION

### 5.1 CAN COMMUNICATION

The Seplos Battery Management System (BMS) transmits data via a CAN interface, operating at a baud rate of 500 kilobits per second. The CAN interface utilises 8P8C connectors to communicate with an inverter or a CAN TEST. RS485 is used to collect this information, which is then transmitted to the PCS through the CAN interface.



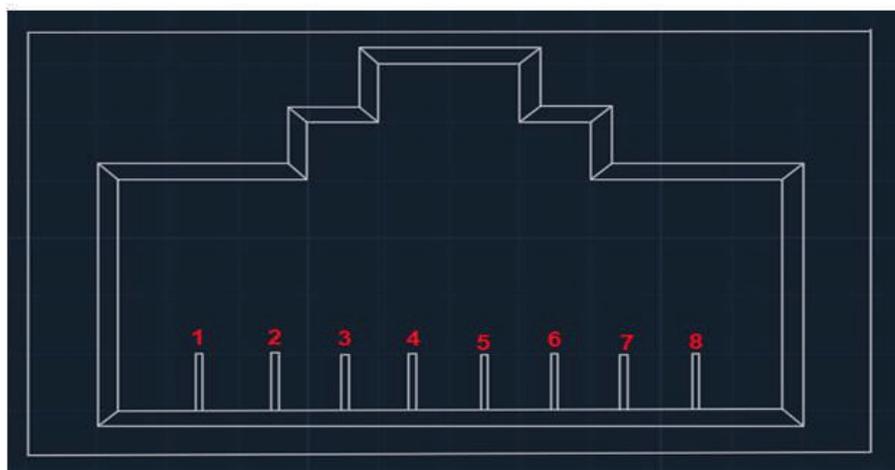
PINS	DEFINITION
1, 2, 7, 8	NC
4	CAN-L
5	CAN-H
3, 6	GND

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## 5. COMMUNICATION

### 5.2 RS485 COMMUNICATION

The Battery Management System (BMS) can gather battery pack information using RS485 communication at a baud rate of 19200 bits per second. The RS485 interface employs 8P8C connectors for data transmission.



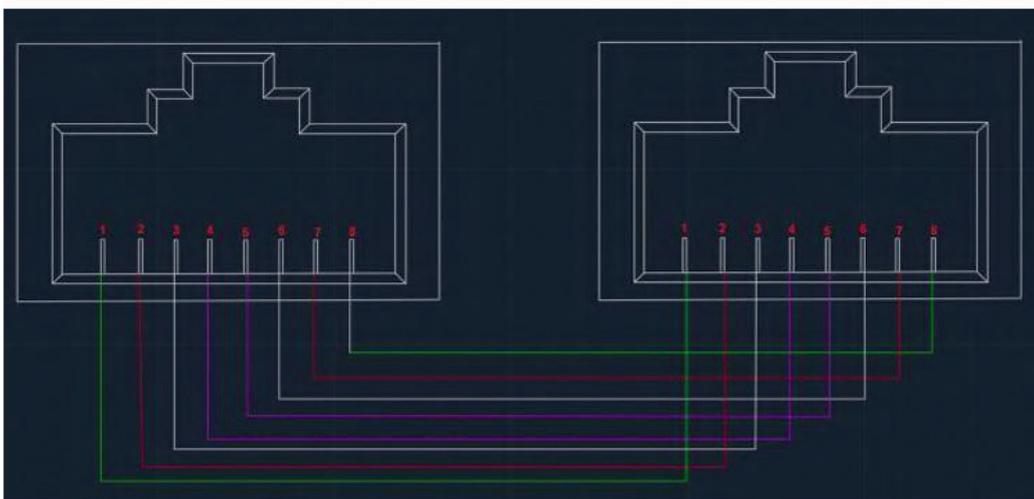
PINS	DEFINITION
1/8	RS485-B
2/7	RS485-A
3/6	GROUND
4/5	Internal communication (NC)

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## 5. COMMUNICATION

### 5.3 PARALLEL COMMUNICATION

When connected in parallel using RS485 connectors, the CAN connectors serve as the primary communication interface. End devices can access the collected battery information through the CAN interface.



### 5.4 DIP SWITCHES

**DIP Address:** When battery packs are connected in parallel, each pack is uniquely identified by a DIP address. Bits 1 to 4 determine the individual address of each parallel pack, while bits 5 to 8 indicate the total number of slave packs.

**Host settings:** Bits 1 to 4 are fixed at 0, assigning the host a fixed address of 0, and bits 5 to 8 are set based on the number of parallel slaves.

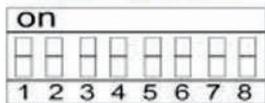
**Slave settings:** Bits 1 to 4 are set according to the device sequence, with slave addresses ranging from 1 to 15. Bits 5 to 8 remain fixed at 0.

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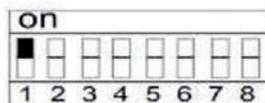
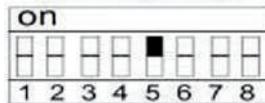
## 5. COMMUNICATION

### 5.4 DIP SWITCHES

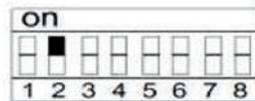
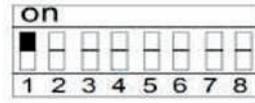
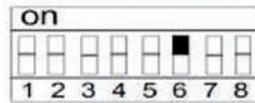
#### 1 PACK



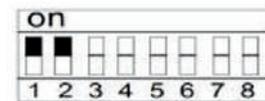
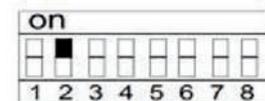
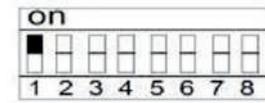
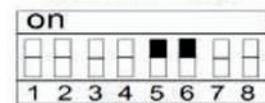
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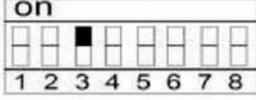
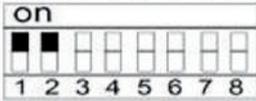
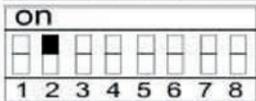
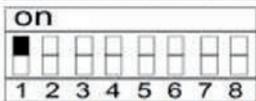
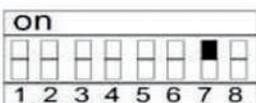
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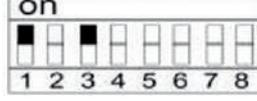
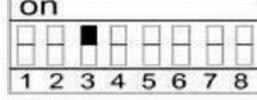
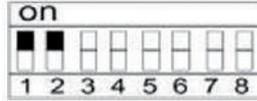
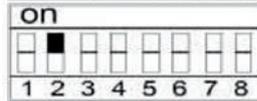
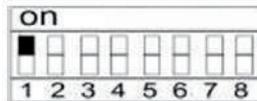
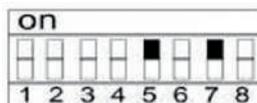
#### 4 IN PARALLEL



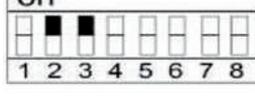
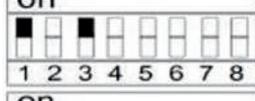
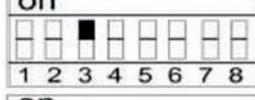
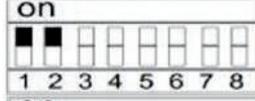
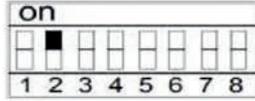
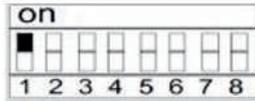
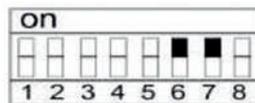
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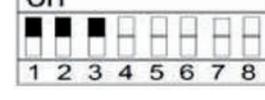
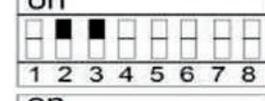
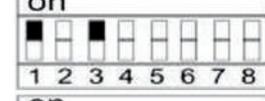
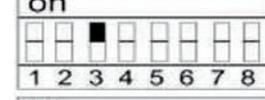
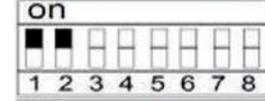
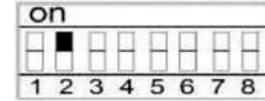
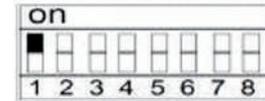
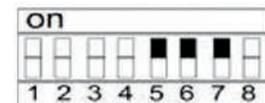
#### 6 IN PARALLEL



#### 7 IN PARALLEL



#### 8 IN PARALLEL



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## 6. WORKING MODE

### Charging Mode

When a charger is detected and its voltage exceeds the battery voltage by at least 0.5V, the BMS will activate the charging MOSFET. Once the charging current reaches the effective charging current value, the system enters charging mode.

### Discharging Mode

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

### Standby Mode

If the BMS is neither charging nor discharging, the system enters standby mode.

### Power Off Mode

The system will power off (without a charger) if:

- Any individual or all batteries remain in over-discharge protection mode for 30 seconds.
- The power button is pressed for 3 seconds (ensure no charger is connected; otherwise, the system will not enter low power mode).

### Waking the System

The system will enter working mode if:

- A charger is connected, and its voltage exceeds 300V.
- The power button is pressed for 3 seconds.

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## 7. LED LIGHTS

One running indicator (Green)

One warning indicator (Red)

And four capacity indicators (Green)

					
SOC				ALARM	RUN

### 7.1 CAPACITOR INDICATORS

STATUS	CHARGING				DISCHARGING			
CAPACITY								
	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				BLINKING			

### 7.2 LIGHTS BLINKING EXPLANATION

BLINK TYPE	LIGHT TIME	OFF TIME
BLINK A	0.25S	3.75S
BLINK B	0.5S	0.5S
BLINK C	0.5S	1.5S



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### 8. HEALTH AND SAFETY

- Do not place the battery on or near flammable materials.
- To ensure optimal performance, the ambient temperature should be between 10°C and 30°C.
- The installation site should have sufficient space around the battery for proper heat dissipation (as illustrated in the diagram below).
- Concrete surfaces or other non-flammable surfaces are suitable for installation.



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### 9. INVERTER CONNECTION

The battery should be turned off before connecting.

