

INNOVA LIFEPO4 48V50AH



- ▶ **Cells and Battery Voltage Detection:** protection and alarming for over charge, over discharge
- **Cells and Battery Temperature Detection:** protection and alarming for high temperature and low temperature
- **Battery Charge and Discharge Current Detection:** protection and alarming for charge current and discharge current also for short circuit protection
- **Battery SOC and Cycles Detection:** show the real-time SOC and recycle times
- **6 LED indicators:** to show the SOC, operation mode, alarming and protection status
- Start-up, Shutdown and Reset button
- **RS232 and RS485 communication Interface:** Data Monitoring, Operation Control and Parameters Setting through remote access
- **Data Record Storing and Reading**
- **Battery Parameters Setting:** for cells and the battery - over discharge, over charge, over current, short circuit, high temperature, low temperature, number of serials, battery capacity

Characteristics	INNOVA 48V50Ah	
Nominal Voltage	48 V	
Nominal Capacity	50 Ah	
Impedance (max. at 1000 Hz)	≤55 mΩ	
Expected Cycle Life	More than 2000 cycles, with 1C charge and discharge rate, at 25 °C	
Width	482±2mm	
Depth	430±2mm	
Height	130±2mm	
Weight	~34 kg	
Charge Method	CC-CV (Constant Current/Constant Voltage)	
Max. Charge Voltage	54.75 V	
Continuous Charge Current	Max. 50A	
Charge Temperature	0°C ~ 45°C	
Continuous Discharge Current	max. 50A	
Peak Instant Discharge Current	100A (10 seconds)	
Discharge Cut-off Voltage	37.5 V	
Discharge Temperature	-20°C ~ 60°C	
Storage Temperature	-20°C ~ 55°C	
Self Discharge (stored at 50% SOC)	≤ 3% / month	
Communication	RS485 or RS232	battery voltage, temperature, SOC, faults
Over charge Protection	Over charge detection voltage	3900± 20 mV (adjustable)
	Over charge release voltage	3800± 20 mV (adjustable)
	Release condition	The single voltage is up to the release voltage
Over discharge protection	Over discharge detection voltage	2000± 50 mV (adjustable)
	Over discharge detection delay time	5 ± 1s (adjustable)
	Over discharge release voltage	2300± 50 mV (adjustable)
	Release condition	Detect if the effective charge current and the single voltage is higher than the release voltage
Over current protection	Over charge current detection current	50±1A (adjustable 3A-50A)
	Over charge detection delay time	5±1S (adjustable 1S-600S)
	Over discharge current detection current	-50±1A (adjustable 3A-50A)
	Over discharge detection delay time	5±±1S (adjustable 1S-600S)
	Release condition	Connect with charger or reset
Cells balancing	Balancing voltage	3370 mV(adjustable, 3000mV-4500mV)
	Balancing voltage different	50mV(adjustable, 50mV-100mV)
	Balancing end voltage	30mV(adjustable, 10mV-30mV)
Temperature Protection	Low temperature alarm	-10± 3°C (adjustable -20-60°C)
	High temperature alarm	60± 3°C (adjustable -20-60°C)

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