

# 48V100Ah 3U



## RACK MOUNTED TYPE BATTERY FOR RESS



### SAFETY

- + Long life type prismatic LiFePO4 cells, suitable for energy storage application.
- + Low voltage system, safety for application.
- + Cell certification: UN38.3, ROHS, IEC62619, UL1973
- + Battery certification: UN38.3, MSDS

### DESIGN

- + Standard 19" rack design, 3U in height.
- + Flexible and easily installation, support rack mounted or wall mounted.
- + -20~+55°C widely temperature range.
- + Maintenance free.
- + MCB-125A,

### SCALABILITY

- + Parallel support for more energy.
- + Communication compatible with the major inverter manufacturers.<sup>(1)</sup>
- + Optional: Heater-100W,

### BATTERY MANAGEMENT SYSTEM

- + Independent protection for charge and discharge.
- + SOC, SOH display and PC software for detailed operation.
- + OVP, LVP, OCP, OTP, LTP protection.
- + RS485, CAN communication port for inverter and link-in/link-out port for battery to battery communication.

# 48V100Ah 3U

## SPECIFICATION

Part Number	
Model	R-LFP48V100Ah
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	100
Total Energy [Wh]	4800
Dimension (W*D*H, mm)	442*400*130.5
Weight [Kg]	38.7
Max. Charging Current [A]	100
Recommended Charging Current [A]	50
Max. Discharging Current [A]	100
Pulse Discharge Current	150A @2S
Charging Voltage [V]	52.5~54.0
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)
Internal Resistance [mΩ]	<10
Operation Humidity	0~95% RH (No condensing)
Operating Temperature Range <sup>(1)</sup>	Standard Product: Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C With Optional Heater: Charge / Discharge: -20 ~ +55°C
Cycle Life <sup>(2)</sup>	>3500
Designed Calendar Life	10 Years
Communication interface	RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit
Parallel Support	Yes, Max. 15 Sets
Series Support	Not support

### Note:

(1) Normally the Li-ion battery operation temperature range is : discharge -20~+55°C, charge 0~+55°C, If the heater is installed, it will automatic start to work once the cell temperature is below 5°C and the heater can help to increase cell temperature 4~8°C/hour.

(2) 25°C, 0.5C/0.5C, 100%DOD to 80% of initial capacity.

The datasheet is subject to change without prior notification

## Dimension

