

Rack Mounted Li-ion Battery

NP-481000-LR



SAFETY

- + Long life type prismatic LiFePO₄ cells, suitable for energy storage application.
- + Low voltage system, safety for application.
- + Cell certification: UN38.3, ROHS, IEC62619, UL 1973 and UL9540A
- + Battery certification: UN38.3, MSDS, CE

SCALABILITY

- + Parallel support for more energy.
- + Different power connector for residential energy storage and telecom market.
- + Communication compatible with the major inverter manufacturers and rectifier manufacturers.

DESIGN

- + Standard 19" rack design, 3U in height.
- + Flexible and easily installation.
- + -20~+55°C widely temperature range.
- + Maintenance free.

BATTERY MANAGEMENT SYSTEM

- + Independent protection for charge and discharge.
- + SOC, SOH display and PC software for detailed operation.
- + OVP, LVP, OCP, OTP, LTP protection.

Specification

Model	NP-481000-LR
Nominal Voltage [V]	48.0
Nominal Capacity [Ah]	100
Total Energy [Wh]	4800
Dimension (W*D*H, mm)	442*400*130.5
Weight [Kg]	38.5
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	Standard Product: Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C With Optional Heater: Charge / Discharge: -40 ~ +55°C
Cycle Life	>6000
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:

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.

Model	Voltage(V)	Capacity (Ah)	Dimension (W*D*H,mm)	Weight(Kg)
NP-481000-LR	48V	100AH	442*396*130.5	38.5