

Rack Mounted Li-ion Battery

GP-481000-LR

GP-5121000-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



DESIGN

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



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.



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	GP-481000-LR	GP-5121000-LR
Nominal Voltage [V]	48.0	51.2
Nominal Capacity [Ah]	100	100
Total Energy [Wh]	4800	5120
Dimension (W*D*H, mm)	442*400*130.5	442*400*130.5
Weight [Kg]	38.5	40.5
Max. Charging Current [A]	100	100
Recommended Charging Current [A]	50	50
Max. Discharging Current [A]	100	100
Pulse Discharge Current	150A @2S	150A @2S
Charging Voltage [V]	52.5~54.0	55.2~57.6
End of Discharge Voltage [V]	42.0 (Backup Application) / 45 (Cycle Application)	44.8 (Backup Application) / 48 (Cycle Application)
Internal Resistance [mΩ]	<10	<10
Operation Humidity	0~95% RH (No condensing)	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	Standard Product: Charge: 0 ~ +55°C; Discharge: -20 ~ +55°C With Optional Heater: Charge / Discharge: -40 ~ +55°C
Cycle Life	>6000	>6000
Designed Calendar Life	10 Years	10 Years
Communication interface	RS485, CAN	RS485, CAN
Protection	Over voltage , Low voltage, Over current, Over Temperature, Low Temperature, Short circuit	
Parallel Support	Yes, Max. 15 Sets	Yes, Max. 15 Sets
Series Support	Not 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.