Introduction

GYFP48xxMX Series battery system is designed for 48V communication power supply. This system can realize dynamic monitoring and management of the battery‘s operating status, and at the same time carry out charging and discharging alarms and safety alarms, so that the battery can work in the best condition throughout its life cycle, make the lithium battery safer and more durable.

Advantages

- High safety –– high safety pouch lithium ion batteries;
- High level of integration –– integrated efficient battery management system and current-limit charging function;
- Rich interface –– RS485 and RS232 protocols can be supported, and parameter configuration and data monitoring can be carried out by PC software;
- Perfect protection function –– overvoltage protection, undervoltage protection, high temperature protection, low temperature protection, overcurrent protection, short circuit protection, reverse connection protection, and anti-theft function;
- Long life –– Long life of lithium ion battery cell, normal service life up to 10 years;
- Authoritative certification –– certified by INTERNATIONAL standards such as IEC62619, EN61000 and UN38.3;

Applications

The backup power system is widely used in communication fields such as:

- Access network equipment
- Remote exchanges
- Mobile communication equipment
- Transmission equipment
- Satellite ground stations
- Microwave communication equipment, etc.

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Specification

Parameters	GYFP4850MX	GYFP48100MX	GYFP48150MX
Rated Voltage [V]	−48	−48	−48
Rated Capacity [C_5] [Ah]	50	100	150
Dimension [W × H × D, mm]	440 × 110 × 442	442 × 130 × 400	442 × 160 × 450
Weight [kg]	28	42	60
Normal Voltage Range [V]	−44.5~−52	−44.5~−52	−44.5~−52
Maximum Operating Voltage Range [V]	−40.5~−53.3	−40.5~−53.3	−40.5~−53.3
Charging Voltage [V]	Floating charging: −51V Equalizing charging: −53.3V	Floating charging: −51V Equalizing charging: −53.3V	Floating charging: −51V Equalizing charging: −53.3V
Rate Charging Current [A]	25	50	50
Rate Discharging Current [A]	25	50	50
Max Charging Current [A]	50	100	100
Max Discharging Current [A]	50	100	100
Design Lifetime	>10 years, 25℃	>10 years, 25℃	>10 years, 25℃
Cycle Lifetime	>3500 cycles, 25℃	>3500 cycles, 25℃	>3500 cycles, 25℃
Operating Temperature	Charge: 0℃~+55℃ Discharge: −20℃~+55℃	Charge: 0℃~+55℃ Discharge: −20℃~+55℃	Charge: 0℃~+55℃ Discharge: −20℃~+55℃
Safety Certification	CE certification, UL certification, UN certification, IEC certification	CE certification, UL certification, UN certification, IEC certification	CE certification, UL certification, UN certification, IEC certification
Relative Humidity	5% ~ 95%	5% ~ 95%	5% ~ 95%

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