TIANNENG

LR series

Lead-acid Replacement Battery



Product Features

Advanced Safety

- Smart BMS with Multi-Level Protection
- Optional Aerosol Fire Suppression

Flexible Configuration

- Supports 2S/4S & 4P Configurations
- Easy Capacity Expansion

Easy Replacement

- Designed for Lead-Acid Battery Replacement
- Plug-and-Play Installation

Long Service Life

- Long-Lasting Performance
- Low Maintenance Requirements

Enhanced Protection

- Enhanced shock and vibration protection during transportation

Smart Monitoring & Management

- Wi-Fi / Bluetooth for Remote Monitoring
- OTA firmware updates without on-site service

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Item	Description	
model	LR-12100A	LR-24100A
Cell model	LFP 3.2V 100Ah	
Rated energy	1280Wh	2560Wh
Rated voltage	12.8V	25.6V
Voltage range	10~14.6V	20~29.2V
Rated charge/ discharge current	50A	50A
Max continuous charge /discharge current	Charge：50A Discharge：100A	Charge：50A Discharge：100A
Pulse discharge current	200A ≤ 10s	
Internal resistance (Max, at 1000Hz.)	≤ 20mΩ	
Battery Shipping SOC	50%	
Standard charging method (CC/CV)	0.5C/50A CC charge to 14.6V, CV charge until current drop to 5A	0.5C/50A CC charge to 29.2V, CV charge until current drop to 5A
Standard discharge	0.5C/50A, cut-off voltage 10V	0.5C/50A, cut-off voltage 20V
Cycle life	≥ 4000 cycles@0.5C@25℃	
Operation temperature range	Charge：0-50℃ Discharge：-20~55℃	
Relative humidity	5-95%	
Altitude	≤ 4000m	
Protection grade	IP20	
Communication	Bluetooth	
Screen (optional)	button screen	
Terminal	P+：M8 P-：M8	
Max numbers in series or parallel	4S/4P	2S/4P
Dimension（W*D*H）	260*168*211 mm	484*168*240 mm
Weight	10kg	20kg
Certification	UN38.3	

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