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Lithium Phosphate (LiFePO₄) Battery

12.8V 100AH
GW-LIFEPO-100AH

Features:

- Utilizes lithium iron phosphate (LiFePO₄) cell technology, ensuring superior safety and thousands of cycles at 100% depth of discharge (DOD) under normal conditions.
- Built-in automatic protection against overcharge, over-discharge, overcurrent, and overheating.
- Maintenance-free design.
- Internal cell balancing for optimal performance.
- Lightweight—approximately 40% to 50% lighter than comparable lead-acid batteries.
- Compatible with most standard lead-acid chargers.
- Wide operating temperature range: -20°C to 60°C.
- Supports series expansion (up to 51.2V) and parallel configurations (up to two units).

Battery Specifications:

Electrical Characteristics	
Nominal Voltage	12.8V
Nominal Capacity	100Ah
Energy Storage	1280Wh
Internal Resistance	≤50mΩ
Cycle Life	2000 cycles @ 0.2C charging/discharging, until 70% capacity
Self-Discharge Rate	≤3.5% per month at 25°C
Standard Charging	
Maximum Charging Voltage	14.0V - 14.6V
Charging Mode	At 0°C~45°C, charged to 14.6V at a constant current of 0.2C, then switches to constant voltage mode at 14.6V until the current is ≤0.02C
Maximum Charging Current	100A
Standard Discharging	
Maximum Continuous Discharging Current	100A
Maximum Pulse Discharge Current	200A (<3 sec)
Discharging Cut-off Voltage	10.0V
Operating Conditions	
Charging Temperature Range	0°C to 45°C (32°F to 113°F) @ 60±25% Relative Humidity
Discharging Temperature Range	-20°C to 60°C (-4°F to 140°F) @ 60±25% Relative Humidity
Storage Temperature Range	0°C to 45°C (32°F to 113°F) @ 60±25% Relative Humidity
Water & Dust Resistance	IP55
Structural Details	
Cell Type & Configuration	CB79 4S1P
Dimensions (L x W x H)	278mm x 176mm x 172mm
Weight	Approx. 20.5lbs (9.8kg)
Terminal Type	SAE post & M6x1.0