ENVOLTAGE

LiFePO4 BATTERY CELL

EV-LFP Series 12.8V

RoHS COMPLIANT

3 YEAR WARRANTY

FEATURES

The LFP Series Lithium Iron Phosphate Batter is designed for the drop-in replacement of deep-cycle lead-acid batteries. Manufactured with automotive grade battery cells, it offers excellent cycle life expectancy even under high and varied loads.

MANAGEMENT SYSTEM (BMS)

- Single over voltage protection
- Single under voltage protection
- Over current protection

APPLICATIONS

- Electric vehicles
- Portable devices
- Solar power storage
- Backup power storage
- Industrial applications
- Fishing boats
- Business and commercial
- Medical devices
- Electronics and robotics

Product Description

PART#	DESCRIPTION	CAPACITY	VOLTAGE	OUTPUT
EV-LFP-12100	Lithium Iron Phosphate (LiFePO4) Battery Cell	100Ah	12.8V	1280Wh
EV-LFP-12200	Lithium Iron Phosphate (LiFePO4) Battery Cell	200Ah	12.8V	2560Wh

Specifications

MODEL#	EV-LFP-12100	EV-LFP-12200
BATTERY CELL		
Specification	Lithium iron phosphate	
Capacity	100Ah	200Ah
Nominal Voltage	3.2V	
Nominal Internal Resistance	≤0.5mQ	
Compound Mode	4S1P	4S2P
Standard of Matching Group	The internal resistance extreme difference in a single section ≤ 0.2mQ. Single-section voltage difference ≤ 5mV. Charge retention capacity ≥ 90%	
Nominal Voltage (V)	12.8	
Nominal Capacity (Ah)	100	200
BATTERY PACK		
Minimum Capacity (Ah)	100	200
Charging Stop Voltage (V)	14.6	
Discharge Cutoff Voltage (V)	10	
USB Output Voltage (V)	N/A	
USB Maximum Output Current (A)	N/A	
Maximum Continuous Discharge Current (A)	1C	
Display Screen (Optional)	Voltage and percentage	
Standard Charging Current (A)	< 0.5 C	
Charging Temperature	0℃ ~ 45℃	
Discharging Temperature	-20℃ ~ 65℃	
Battery Pack Size (L*W*H)	330*172*215mm (main body)	522*240*218mm (main body)
Battery Pack Weight	+/- 11Kg	+/- 20 Kg
Storage Temperature Range	0℃ ~ 45℃	
Storage Ambient Humidity (RH)	<75%	
Communication Mode	N/A (485,232,CAN etc. optional)	
Bluetooth	N/A (optional)	
Charge Retention Capacity	After charging according to 3. 2 standard, hold for 28 days under standard test conditions, and then discharge with 3.3 standard, with the charge retention rate of 80%.	
Cycles	Cycle life is not less than 5,000 times, capacity retention rate of 80%. (Charge according to the 3.2 standard, and hold for 0.5~1h, discharge as per the 3.3 standard, and hold for 0.5~1h,counting one cycle).	
MANAGEMENT SYSTEM (BMS)		
Single Over Voltage Protection Value	3.7V	
Over Voltage Release Value	3.65V	
Single Under Voltage Protection Value	2.5V	
Under Voltage Release Value	2.7V	
Over Current Protection Value	200A	400A