

W12-400L

12V Lithium Battery



Automotive - grade Lithium Iron Phosphate Battery



Intelligent Heating System



Long - lifespan, Safe and Reliable



Intelligent Charging System

Overview

The W12 series batteries are specifically designed for RVs, camping cars, caravans, trailers, or any other special vehicles. Lithium iron phosphate batteries (LiFePO) are a better choice compared to AGM batteries, as they offer superior performance and a longer service life.

Meanwhile, lithium iron phosphate batteries are much smaller in size and lighter in weight. Therefore, they can meet the ever - growing power supply demands of vehicles. Lithium iron phosphate batteries are a safe energy storage solution. With the help of the Battery Management System (BMS), the W48 battery can continuously supply power to on - board devices, improving energy conversion efficiency and ensuring safety.

- Cycle life of up to 3600 times at 0% Depth of Discharge (DOD)
- Ultra - low self - discharge
- High - current charging and discharging
- Excellent temperature adaptability
- Battery Management System (BMS) communication function
- Can operate in a temperature environment ranging from - 20°C to 60°C

W12-400L Product Introduction

MODEL	W12-400L
Rated Voltage	12.8V
Rated Capacity	410 Ah
Rated Energy	5120Wh
Battery Type	LiFePO4
Number of Cells	3.2V 205Ah 8PCS
Cell Configuration	4S2P
Overcharge Protection Voltage	14.6Vdc
Overdischarge Protection Voltage	10.8Vdc
Rated Charging Current (Room Temperature)	80A
Maximum Charging Current (Room Temperature)	150A
Overcharge Protection Release	Discharge / Voltage Recovery
Operating Temperature Range	-10~+55°C, At 50±25%RH
Output Voltage Range	10.8 - 14.6Vdc
Rated Discharging Current (Room Temperature)	200A
Maximum Discharging Current (Room Temperature)	300A
Overdischarge Protection Release	Charge / Voltage Recovery
Protection Class	IP20
Parameters	
Overcharge Protection	3750mV@1s
Overcharge Protection Release	3550mV
Overcharge Release Method	Cell 3550mV or Discharge
Overdischarge Protection	2200mV@5s
Overdischarge Protection Release	2700mV
Overdischarge Release Method	Cell 2700mV or Charging
Overcurrent Protection (Charging)	800~850A
Overcurrent Protection (Discharging)	370A@20ms
Overcurrent Release Method (Charging)	Remove Charger
Overcurrent Release Method (Discharging)	Disconnect Load
Over-temperature Protection	Protection at 70°C / Release at 50°C
Over-temperature Protection	Protection at 85°C / Release at 64°C
Packaging	
Single Unit Dimensions (L×W×H, mm)	470x325x340mm
Shipping Dimensions (L×W×H, mm)	500x355x3370mm
Net Weight (N.W.)	65Kg
Gross Weight (G.W.)	68Kg