

1. Description

LiFePO₄ G31 12V battery is equipped a BMS (Battery Management System) which utilizes a failsafe electronic control that monitors temperature, voltage and current flow at the cell level of the battery. The electronic sensing capabilities ensure optimal charging and safety, while providing the full capacity potential of this battery chemistry technology.

This battery is designed to work with all regulators. It can be used as a standalone battery, or can be connected in-parallel with up to 5 another batteries thus forming 570 Amp*Hours power cell

2. Specifications

Parameter	Value	Units
Dimensions W x H x D	300 x 165 x 254	mm
Weight	14.6	kg
Housing material	Plastic	-
Storage Temperature range	-20 .. +65	Celsius deg
Protection	IP 56	-
Maximum shock	1	G
Maximum relative humidity	95	%

3. Electrical specifications

Parameter	Value	Units
Nominal Battery Voltage (no load)	12.8	Volts
Maximum Battery Voltage	14.6	Volts
Minimum Battery Voltage	8.8	Volts
Charging Voltage @ 25 Celcius deg	14.4	Volts
Temperature Range for discharging	-20 .. +65	Celsius deg
Temperature Range for charging	0 .. +65	Celsius deg
Maximum Charging Current	60	Amps
Discharging Current	100	Amps
Surge Discharge Current	200 (30 seconds)	Amps
Capacity	114	Amp * Hours
Amount of charging cycles (to 80% SOC at room temperature)	3000	-

4. Re-Set Mode:

The built-in Battery Management System (BMS) protects the cells against excessively high or low voltages, high currents, short circuits requiring a battery re-set by the following procedure;

- Switch off the Master switch
- Disconnect the ground connection to battery
- Re-connect

Notice

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