



LiFePO₄ Battery Range

FW 12-7.5

Electrical Characteristics

Nominal Voltage [V]	12.8V
Nominal Capacity	7.5Ah
Energy	96Wh
Internal Resistance	≤60mΩ
Cycle Life	>2000 cycles at 0.2C 100% DOD
Months Self Discharge	<3%
Efficiency of Charge	100% at 0.5C
Efficiency of Discharge	96-99% at 1C

Charge

Charge Volt	14V-14.6V
Charge Mode	CC at 0.2C to 14.6V, then at CV14.6V to charge current less than 0.02C
Charge Current	1.5A
Max. Charge Current	7.5A
Charge Cut-off Voltage	15.6V±0.2V

Discharge

Max. Continuous Current	7.5A
Max. Pulse Current	15A (<3s)
Discharge Cut-off Voltage	8V

Environment

Charge Temperature	0°C to 45°C (32F to 113F) at 60±25% Relative Humidity
Discharge Temperature	-20°C to 60°C (-4F to 140F) at 60±25% Relative Humidity
Storage Temperature	0°C to 40°C (32F to 104F) 60±25% Relative Humidity
Water Dust Resistance	IP56

Mechanical

Cell Material	LiFePO ₄
Plastic Case	ABS
Dimensions (mm)	150x65x101 mm
Weight (kg)	1kg
Terminal	T2

BMS

Protection Function	Over charge protection, Over discharge protection, Over current protection, Short current protection, Balanced function, Temperature protection
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