



LiFePO₄ Battery Range

FW 12-10

Electrical Characteristics

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|-------------------------|-------------------------------|
| Nominal Voltage | 12.8V |
| Nominal Capacity | 10AH |
| Energy | 128Wh |
| 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

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|------------------------|--|
| 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 | 2A |
| Max. Charge Current | 10A |
| Charge Cut-off Voltage | 15.6V±/-0.2V |

Discharge

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|---------------------------|-----------|
| Max. Continuous Current | 10A |
| Max. Pulse Current | 20A (<3s) |
| Discharge Cut-off Voltage | 8V |

Environment

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|-----------------------|---|
| 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 (in./mm) | 151 x 98 x 101mm |
| Weight (lbs./kg.) | 1.6kg |
| 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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