

January 2025

MastMinder Lithium 280 AH Batteries

48 Volt 280 AH Lithium Batteries

(Also available in 100Ah & 150Ah & 200Ah)



Advantage

✓ Safer:

- ◆ Excellent deep cycle ability: ≥ 10000 cycles@80%DOD;
- ◆ 15+ years design life;
- ◆ Adopt Grade A LiFePO₄ cells from TOP5 manufacturer in the world;
- ◆ Built-in smart BMS with intelligent automatic protection for overcharge, over discharge, over current, short-circuit and over temperature etc.;
- ◆ IEC62619, UN38.3, CE, RoHs, etc.;

⚙️ Smarter:

- ◆ High compatibility with most brands of rectifier as a system, HUAWEI, DPC, etc.;
- ◆ Support GPRS, SNMP remote monitoring;
- ◆ Optional GPS, gyroscope anti-theft function;
- ◆ Modbus protocol available, RS485 port;

💡 Simpler:

- ◆ Space-saving 19-inch standard rack mount design;
- ◆ Modular design, easy to install;
- ◆ Supports max 15 sets in parallel to expand capacity;
- ◆ No maintenance required through out the lifetime;

Specifications

Nominal Characteristics	
Battery Model	MM48280-T
Nominal Voltage	48V
Nominal Capacity	280Ah
Nominal Energy	13440 Wh
Electrical Characteristics	
Recommended Boost Charging Voltage	54 $\pm$ 0.5V
Recommended Float Charging Voltage	54 $\pm$ 0.5V
Recommended Charging Current	60A
Maximum Charging Current	100A
Maximum Discharging Current	100A
Operating Conditions	
Cycle Life	≥ 10000 Cycles@80% DOD@25°C
Roundtrip Efficiency	$\geq 98\%$
Operating Charge Temperature	0°C to +50°C
Operating Discharge Temperature	-20°C to +60°C
Storage Temperature	-20°C to +60°C
Mechanical Characteristics	
Length x Width x Height	483 x 720 x 227 mm
Weight	104Kg
Terminal	M6
IP Rating	IP20

Application

- Base transceiver station
- Communication equipments
- Central office
- Microprocessor based office machine
- UPS

Performance curve

