

Specifications

Capacity
Nominal Voltage
Full Charge Resting Voltage
Energy Storage
Run time @ 25Amp load
Self Discharge Rate

MT 12190DP

190Ah
12.8 Volts
13.32 Volts
2432Wh (2.432KWh)
7.6 Hours @ 77°F (25°C)
25mA, Sleep 300µA

Charging

Charging Temperate Range
Charge Method
Absorb Voltage(CC)
Maximum Current
Recommended Current
Recommended CV Time
Charge Efficiency

32° ~ 131°F (140°F Max.)
CC/CV
14.0 to 14.4 Volts
150Amps @ 77°F (25°C)
50Amps
15 minutes
99%

Discharging

Discharging Temperate Range
Discharge Current
Marine Cranking Amps
Discharge Cut-off Voltage
Recommended Low Voltage Disconnect
Short Circuit Protection
Short Circuit Protection Release

-4° ~ 140°F (-20°C - 60°C)
200Amps Continuous
1500Amps
10Volts; Any cell (2.5Volts)
12.0 Volts
2000A for 250µS
Disconnect the load

Battery Protection

BMS Control
Over Voltage, per Cell, Open
Over Voltage, per Cell, Release
Over Discharge, per Cell, Open
Over Discharge, per Cell, Release
Over Current
Over Current Release
Over Temperature
Over Temperature Release
Low Temperature Charge, Open
Low Temperature Charge, Release
MOSFET Over Temperature, Open
MOSFET Over Temperature, Release

Mechanical

Length
Width
Height
Weight
Hardware
Hardware Torque

Miscellaneous

Packs in Parallel
Packs in Series
Discharge Test
Discharge Test Results

Storage Method

Storage Temperature Range(Recommended)

Lithium ion Chemistry
Cell Type
Internal Impedance(50% SoC, 1kHz)
Certifications

PCM
3.75 Volts ± 0.03 Volts (15.0V)
3.55 Volts ± 0.05 Volts (14.2V)
2.50 Volts ± 0.05 Volts (10.0V)
2.70 Volts ± 0.05 Volts (10.8V)
600Amps 3000mS
Disconnect the charger or load
140°F (60°C)
122°F (50°C)
25°F
32°F
194°F
158°F

12.92"
6.78"
8.75"
41.23 Pounds (18.7Kg)
M8 Bolts, Washer, Lock Washer
80 in - lb. (9 N-m)

4 (Max. Recommended)
1,2,3 or 4
100% DoD @ 1C
> 3000 cycles ~ 80% remaining Capacity

50% SoC, test @ 90 Days, recharge if below 13.0V
-4°F ~ 95°F (-20°C - 35°C)

Lithium Iron Phosphate (LiFePo4)
Nano Prismatic
< 5mΩ
UN38.3, CE, EMC, MSDS, UL1973(Pack)

12190-SP