

BPM 15/90 Li-Ion Battery Module

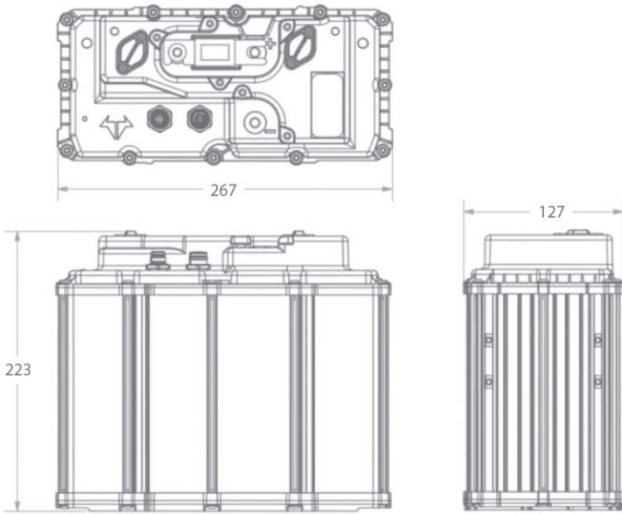
Key Features

- Extruded 6061-T6 Aluminum Case
- UL 94 V-0 Injection Molded Polycarbonate Components
- UL F1 UV Resistant External Components
- Thermal Break Between All Cell Rows
- Cells Thermally Sunked to External Housing
- Internal Cell Heaters with Active Control
- T-Slot Mounting Features

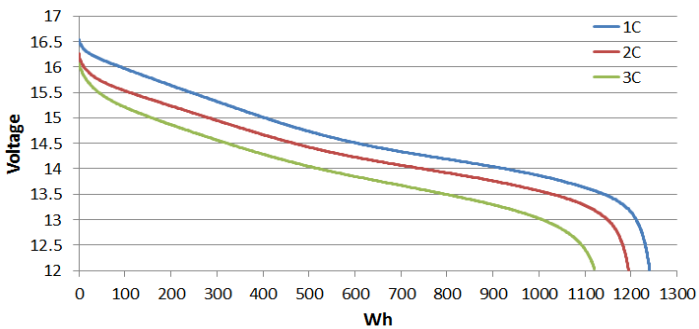


Dimensions

- M8x1.25 Brass Power Terminals
- M12 Circular 8-Pin Standard Communication Connectors



BPM 15/90 Energy



Performance Specification

Cell Configuration	10ah (Nominal) 9.4 ah (typ.), 4S9P
Cell Chemistry Cathode/Anode	Li(NiCoMn)O ₂ / Graphite
Voltage	14.6 V Nominal
Energy (1C discharge from 16.5V to 12.0V)	1.21 kWh (min.), 1.24kWh (typ.)
Weight	10.4 kg
Pulse Power (10s)	8.0 kW
Peak Power (10 min)	4.0 Kw
Continuous Power	2.67 kW
Specific Energy	119 Wh/kg
Energy Density	163 Wh/L
Cycle Life (25°C, 90% DOD)	2000 cycles to 80%

Environmental Specification

Ingress Protection Rating	IP 66
Safe Storage Temperature Range	-40°C / 60°C
Operation Temperature	-10 °C / 40°C
Safety/Abuse	UN 38.3

Battery Management Electronics

Communication Protocol	RS-485 multipoint physical layer
Cell Balancing	Active Cell Balancing with Module Balancing Capability
Thermal Management	5 Temperature Sensors, Real Time Analysis and Equalization
Reporting	SOC/SOH
Protection	Interlock Overcharge, Over-discharge Over-Temperature, Over Current