

Technical Specifications (Li-ion Module)

Battery Module Specifications

| | |
|---|---|
| Rated Capacity | 75Ah |
| Nominal Voltage | 48V |
| Charge Voltage | 54V (CC/CV) |
| Low Voltage Disconnect | 42.0V |
| Maximum Charge Current | 1C/0.5C |
| Maximum Discharge Current | 1C/0.5C |
| Cell Over Voltage Protection | 3.65V |
| Cell Under Voltage Protection | 2.80V |
| Cell Over Temperature Protection | +70°C |
| Cell Under Temperature Protection (Charge) | 0°C |
| Cell Under Temperature Protection (Discharge) | -20°C |
| Measurements & Data Logging | Cell Voltage, Cell Temperature, Ambient Temperature, Module Voltage, Charge/Discharge Current, Module Capacity (AH), SOC, SOH, Cumulative Delivered AH, Cumulative Delivered KWH, Cumulative Charge / Discharge Time, Cycle Count |
| Communication Interface | CAN V2.0b for System Control Bus. RS-485 for External |
| User Interface & Storage (Optional) | Display - 65K Colour TFT, 1.8"/5 key Control Ethernet - 10 / 100 MBPS BASE-T; Auto MDI / MDI-X SNMP - V1, V2c Networking - HTTP, FTP, SNTP, DHCP (client), IPv4 & IPv6 USB -USB 2.0 Storage- Up to 10,000 events with time stamp |
| LED Indications | SOC Status, Run, Warning, Alarm |
| Alarms | Cell Over Voltage, Cell Under Voltage, Cell Over Temperature, Cell Under Temperature, Module LVD, Module Over Voltage, Over Current |

DC-DC Specifications

| | |
|-----------------------|---|
| Input Voltage | 30V-60V DC |
| Output Voltage | Up to 54V (CC/CV) |
| Current Rating | 75A / 37.5A |
| Efficiency | >97% |
| Output Ripple & Noise | <200mV p-p, 30MHz Bandwidth <2mV psophometric |
| Cooling | Forced Air |
| Protections | Input Fuse Over Current Over Voltage Over Temperature Shutdown |

Other Specifications

| | |
|------------------------|--------------------------------|
| Temperature: Operating | -20°C to +60°C |
| Storage | 0°C to +40°C |
| Humidity: Operating | 5% to 95% non-condensing |
| Storage | upto 85% non-condensing |
| Acoustic Noise | <55dB(A) |
| IP rating | IP20 |
| Dimension | 424 x 220 x 494 mm (h x w x d) |
| Weight | 54 kg |

Applicable Standard

| | |
|----------------|--------------------------|
| Safety | UL1642 |
| Transportation | UN38.3 |
| EMC | EN61000-6-3.2007+A1 2011 |