

# 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