

11. 12-36-6700 TECHNICAL SPECIFICATIONS

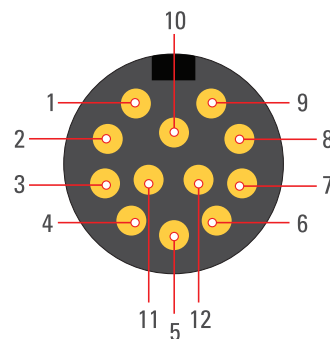
Electrical Specifications	
Nominal Voltage	38.4 V
Charge Voltage	40.8 V
Maximum Voltage	43.8 V
Minimum Voltage	30 V
Nominal Capacity	175 Ah
Nominal Energy	6720 Wh
Max Continuous Charge Current	150 A
Max Continuous Discharge Current	150 A
Fuse	150 A Internal Fuse. Provides backup over-current protection
Cell Chemistry	LiFePO4
Cell Modules	12S 35P
Self-Discharge 25°C / 77°F	< 3% per month (battery off)

Fault Limits	
Over Temperature - Discharge Protection	> 60°C/140°F for 120s
Over Temperature - Charge Protection	> 60°C/140°F for 120s
Low Temperature - Discharge Protection	< -20°C/-4°F for 120s
Low Temperature - Charge Protection	< -20°C/-4°F for 120s
Over Voltage Protection	> 3.7 V in any cell module for 60s
Under Voltage Protection	< 2.5 V in any cell module for 5s
Over Current Protection	> 150 A

Mechanical Specifications	
Battery Dimensions (HxWxD)	375 x 347.5 x 471.5 mm
Battery Weight	88 kg
Shipping Dimensions (HxWxD)	490 x 440 x 570 mm
Shipping Weight	99.9 kg
Terminal	M8
Terminal Hardware	M8 Stainless Steel Bolt, Flat Washer, Lock Washer (Supplied)
Terminal Torque	9.0 Nm +/- 3
Case Material	Powder Coated Cold Rolled Steel
Enclosure IP Rating	IP 55
Charge Temperature Range	0°C/45°C (32°F/113°F)
Discharge Temperature Range	-20°C/50°C (-4°F/122°F)
Storage Temperature Range	-20°C/45°C (-4°F/113°F)

Operational Specifications	
Battery Management System (BMS)	Integrated, with Solid State Relay (SSR)
Cell Balancing	Passive balancing during charge when Cell Voltage > 3.35 V
Non-Volatile Memory	Yes
Lifetime Logged Data	<ul style="list-style-type: none"> • Time • High/low average cell module voltage • Balancing, Fault and Relay State • Battery SOC, Current, Voltage, Temperature • Charge Energy In/Out
Communication Ports	<ul style="list-style-type: none"> • Isolated USB • Isolated CAN (AEBus)
Communication Connector	USB Type A Female Circular 12 Pin Standard

Circular 12 PIN (12-36-6700)



Pin 3	AEBus CAN GND
Pin 4	AEBus CAN High
Pin 5	AEBus CAN Low
Pin 6	LED GND
Pin 7	LED +5V
Pin 8	Key/Reset +
Pin 9	Key/Reset -
Pin 11	AEBus CAN +5V

Regulatory Approvals	UN 38.3
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