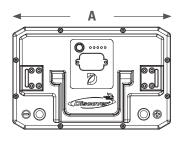


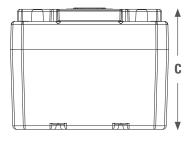
Lithium-ion Battery

Discover Advanced Energy allows for equipment design and functionality improvements and deliver productivity gains through enhanced cycling, charge time and weight reductions in stationary and mobile applications. Dramatic improvements in cycle life and charge efficiency combined with zero maintenance requirements provide the end user with significant cost of ownership savings.

MECHANICAL DRAWINGS







15.95 M6

Terminal units in mm

Terminal

MECHANICAL SPECIFICATIONS

Length (A)	258 mm	10.2 in
Width (B)	167 mm	6.6 in
Height (C)	198 mm	7.8 in
Weight	12.4 kg	27.3 lb
Terminal	A2-M6	
Terminal Torque	7.0 - 7.7 Nm	5.1 - 5.7 ft-lb
Case Material	PC-ABS UL 94 V0 Compliant	
IP Rating	IP 55	

ELECTRICAL SPECIFICATIONS

Nominal Voltage	25.6 V	
Charge Voltage	27.2 V	
Maximum Voltage*	29.6 V	
Minimum Voltage	22.4 V	
Nominal Capacity (1C)	40 Ah	
Nominal Energy (1C)	1024 Wh	
Max Continuous Current	40 A	
Peak Current	< 200 A for 5 s	

Electrical Specifications at 25°C

ELECTRICAL SPECIFICATIONS

Cell Chemistry	LiFePO ₄	
Cell Modules	8S 8P	
Charge Temperature	0°C / 45°C	32°F / 113°F
Discharge Temperature	-20°C / 50°C	-4°F / 122°F
Storage Temperature	-20°C / 45°C	-4°F / 113°F
Self-Discharge 25°C / 77°F	3% per month (battery off)	

Constant Power - Minutes of Discharge 300 W 1000 W 205 123 77 61 **Constant Current - Minutes of Discharge** @40A @5A @10A @25A 480 240 96 60

BENEFITS & FEATURES

Efficient & Fast Charging

Charge efficiency > 95% at high charge rates. Increases productivity, reduces energy costs and eliminates the need for investments in battery change out systems.

Efficient and Stable Discharge

Delivers > 95% of capacity at high uniform and stable voltages during discharge. Increases equipment performance and reduces motor fatigue.

Robust Safety

Multiple levels of protection prevent operation outside of current, voltage, and temperature limits. Independently certified and tested

Weight Efficient

Systems provide > 3 times the energy per weight of high quality lead acid.

Environmentally Safe

Does not contain toxic metals such as cobalt, lead, cadmium, nor any corrosive acids or alkalis.

100% Recyclable

End of Life recovery and licensed recycling through Discover's factory warehouse network.

SAFETY AND PERFORMANCE CERTIFIED

- IEC 62133 (pending)
- UL 2271 (pending)
- UN 38.3

Shipping Classification

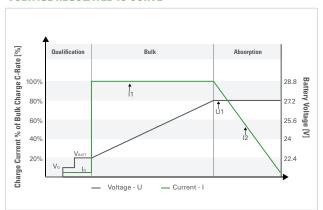
 UN 3480, Class 9 (rechargeable Li-ion battery)

808-0001 REV B

^{*} Do not exceed 40V at the battery terminals.



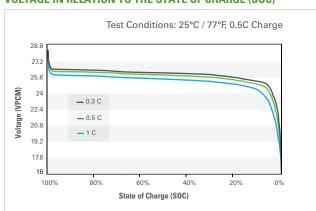
VOLTAGE REGULATED IU CURVE



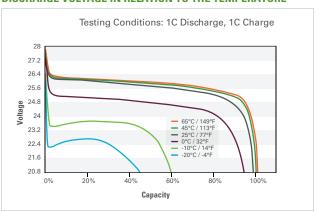
VOLTAGE REGULATED IU CHARGING CURVE PARAMETERS

Nominal Voltage	24 V	
Qualification Voltage (V _Q *)	Min 12 V / Max 24 V (I _Q < 1 A)	
Battery Voltage (V _{BATT)}	≥ 20 V	
Bulk Current (I1)	20 A recommended 40 A maximum	
Absorption Voltage (U1)	27.2 V	
Termination Charge Current	I2 ≤ 2 A	
*Qualification is optional to utilize auto-on feature		

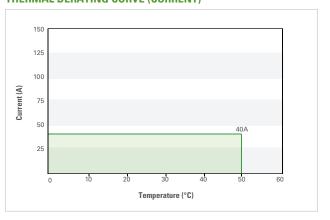
VOLTAGE IN RELATION TO THE STATE OF CHARGE (SOC)



DISCHARGE VOLTAGE IN RELATION TO THE TEMPERATURE



THERMAL DERATING CURVE (CURRENT)



Discover Energy Corp. attempts to ensure the correctness of the product description and data contained herein. We reserve the right to change designs, specifications and pricing at any time without notice or obligation. It is the responsibility of the reader of this information to verify any and all information presented herein.