

12-12-6900

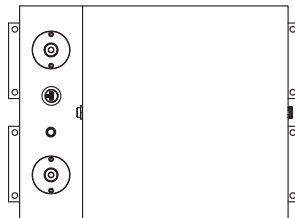
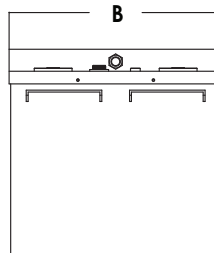
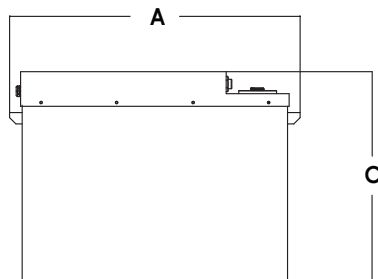
DATA SHEET



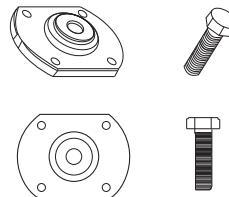
12V 6.9 kWh Advanced Energy System (AES)

Discover Advanced Energy Systems allow 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



Terminal: M8 Insert



Efficient & Fast Charging

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

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.

Mechanical Specifications

Length (A)	461.5 mm	18.2 in
Width (B)	338.5 mm	13.3 in
Height (C)	375 mm	14.8 in
Weight	79.8 kg	175.9 lbs
Cell Modules	4	
Terminal	M8 Insert	
Terminal Torque	7.0-7.7 Nm	5.1-5.7 ft-lbs
Fuse Rating	250 A	
Case	Steel	
IP Ratings	IP54	

Electrical Specifications

Nominal Volts	12V	3.2V per cell module
Min Cut-off Voltage	11.2V	2.8V per cell module
Max Cut-off Voltage	14.8V	3.7V per cell module
Capacity (1C)*	540 Ah	
Capacity (120h)*	540 Ah	
Energy (1C)	6912 Wh	
Energy (120h)	6912 Wh	
Max Continuous Current	150 A	
3 Second Peak Current	300 A	

Cell Chemistry	LiFePO ₄	
Self-Discharge 25°C/77°F	3% per month (battery off)	
Operating Temperature	0°C/32°F	45°C/113°F

Constant Power - Minutes of Discharge			
1000 W	1800 W	2700 W	3600 W
415	230	N/A	N/A

Constant Current - Minutes of Discharge			
@25A	@56A	@100A	@150A
1296	579	324	216

Certified Quality

Discover Energy Corp. and its facilities and products are certified to multiple standards and compliance including:

- ISO 9001, ISO 14001
- UL2271 (pending)
- UL1973 (pending)
- UL2580 (pending)
- IEC62133
- UN38.3 (pending)
- JIS 8715-2 (pending)



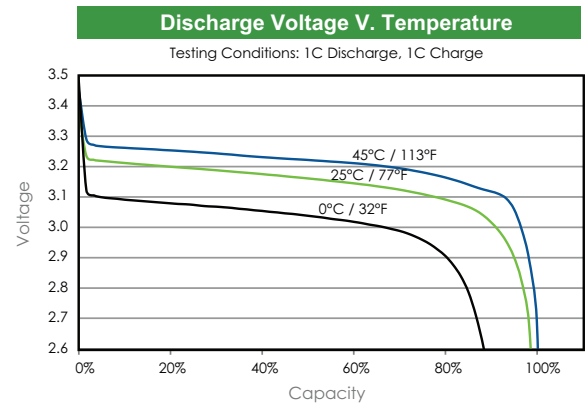
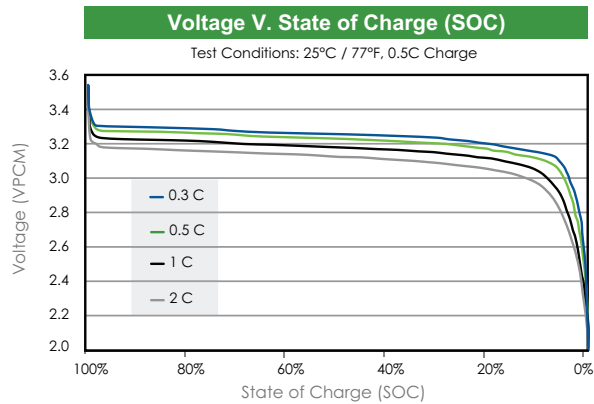
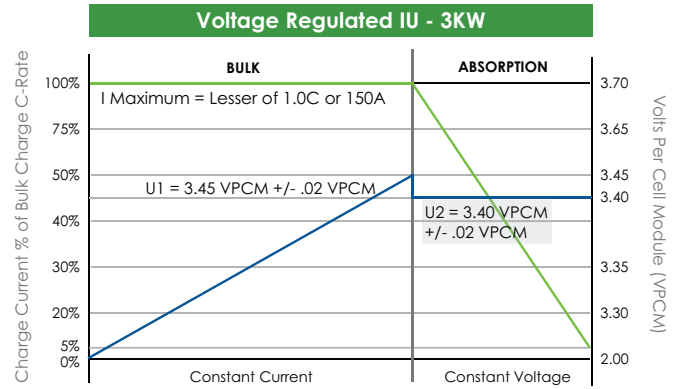
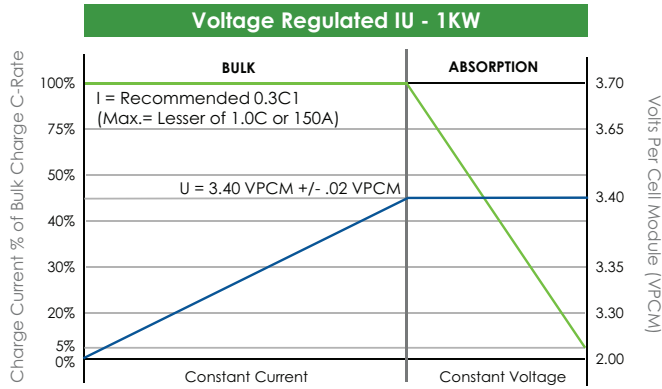
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*Unlike lead acid, Discover AES do not suffer from the same "peukert affect" and will deliver 100% of the rated capacity at all recommended discharge rates.

Graphs



Communication and Data

Communication	
J1939 CAN (database available)	•
USB	•
LCD Display (remote mountable)	•
On/Off Switch (remote mountable)	•
RS232	•

Data logging	
Time Stamps	•
Faults/Warnings	•
I/V/T/Kwh History	•
State of Charge	•

Protection	
Over/Under Voltage	•
Over/Under Temperature	•
Over Current	•
Pre-Charge Control	•

POWER BEYOND YOUR EXPECTATIONS