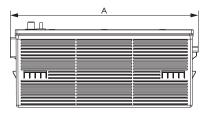
**DATA SHEET** 

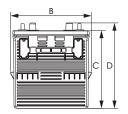


# **EV Traction Dry Cell Industrial Battery Block**

Discover® EV Series Industrial Batteries provide superior high integrity and reliability for commercial, industrial and private applications. The maintenance-free, thick plate construction, designed for tough applications and repeated deep discharging makes the EV Series the definitive choice for robust Traction applications including Home Medical Equipment (HME), Electric Vehicle, Automated Guided Vehicles (AGV), Aerial Lifts, Floor Cleaning Equipment, Robotics, Materials Handling, Renewable Energy and Marine / RV applications.

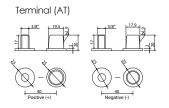
#### **Mechanical Drawings**











### **Mechanical Specifications**

moonamoan opeomoanom					
Industry Reference	4D BCI				
Length (A)	20.6 in	524 mm			
Width (B)	8.9 in	225 mm			
Height (C)	8.7 in	222 mm			
Total Height (D)	9.5 in	242 mm			
Weight	138 lbs	63 kgs			
Terminal (Opt'I)*	AT				
Cell(s)	6				
Electrolyte	1.2875 S.G.	AGM			

\*TERMINAL TORQUE: Please refer to our document, located in the Resources webpage (www.discover-energy.com/resources).

### **Electrical Specifications**

Voltage	12 V				
80% DOD Voltage Cutoff	11.4 V				
Internal Resistance	2.75 mΩ				
Short Circuit (20°C   68°F)	4030 A				
Self Discharge	Less than 3% per month (20°C   68°F)				
Cranking Amps**	1430 @ 0°C (32°F)	1190 @ -18°C (0°F)			
Charge Temperature	Min: -10°C ( 14°F)   Max: 50°C (122°F)				
Discharge Temperature***	Min: -20°C (-4°F)   Max: 50°C (122°F)				
Storage	Min: -20°C (-4°F)   Max: 60°C (140°F)				

\*\*CRANKING AMPS: Cranking Amps data is provided as a reference only. Specific application sizing and life factors must be considered when using deep cycle product in a starting application.

\*\*CAUTION: Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum temperatures

## **Electrical Specifications**

Amp Hours (AH)			Minutes of Discharge							
100 HR	20 HR	10 HR	5 HR	3 HR	1 HR	@25A	@56A	@75A	@85A	@100A
264	235	220	200	175	135	515	205	140	120	100

Maximum Current	Peak (5 seconds)	Peak (10 seconds)	Continuous	Recommended Continuous
Charge	1C10Hr	0.75C10Hr	0.5C10Hr	0.3C10Hr
Discharge	2C10Hr	1.5C10Hr	1C10Hr	0.5C10Hr

#### **Benefits & Features**

Maintenance-Free Clean & Green® choice of Original Equipment Manufacturers.

Traction heavy duty grid design (PbCaSn) gives consistent active material adhesion and corrosion resistance.

High impact reinforced copolymer and polypropylene cases with flat top designs.

A recognized gas recombination efficiency of greater than 99.9%.

Multiple terminal, configuration options and carrying handles available with most models.

Classified as a non-spillable battery and is not restricted for transportation by:

- Air (IATA/ICAO provision 67)
- Surface (DOT-CFR-HMR49)
- Water (per IMDG amendment 27)

with sensitive Compatible equipment.

Comprehensive design to conserve resources, improve safety and reduce waste. 98% recyclable.

#### **Certified Quality**

Designed in accordance with and published in compliance with applicable BCI, IEC and BS EN standards, including:

- IEC60896-21/22
- BS EN 60254-1:2005
- AS/NZS 4029.2.2000 BS EN 60254-1:2005 (MOD)

Discover® and its facilities and products are certified to multiple standards:

- ISO, UL, QS, and TUV standards
- ETTS Germany
- Euro Bat classification for Environmental Stewardship **Standards**











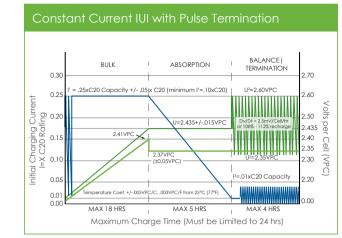


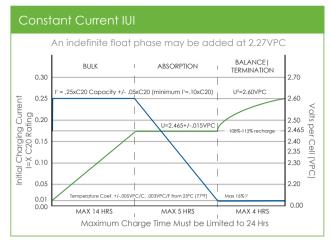


# **Contact Us**



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NOTE: This algorithm uses a pulse termination criterion. As a safety precaution during the Finish phase, if the average cell voltage, or volts per cell (vpc), exceeds U2 and the charger output has been on for more than 30 seconds, the output is shut off until the vpc falls to U3. The finish phase then resumes and this "pulsing" continues until the target overcharge (108% - 112%) is reached.

