# EV512A-100

**DATA SHEET** 

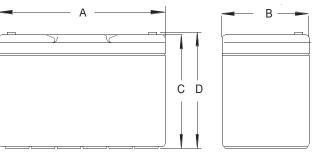


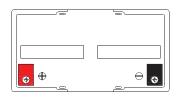
# **EV Traction Dry Cell Industrial Battery Block**

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					
Industry Reference	27 JIS				
Length (A)	12 in	306 mm			
Width (B)	6.7 in	169 mm			
Height (C)	8.1 in	206 mm			
Total Height (D)	8.3 in 211 mm				
Weight	62.8 lbs 28.5 kgs				
Terminal (Opt'I)*	M8				
Cells	6 cell				
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				
Volts	12 V			
80% DOD Voltage Cutoff	11.4 V			
RINT	6.00 mΩ			
Short Circuit (-68°F 20°C)	2000 A			
Self Discharge	<3% of capacity month @ 20°C (68°F)			
Cranking Amps**	645 @ 0°C (32°F) 620 @ -18°C (0°F)			
Charging	-10°C ( 4°F)   50°C (122°F)			
Discharge	-20°C (-4°F)   50°C (122°F)			
Storage	40°C (-40°F)   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.

# **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

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)

Compatible with sensitive 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 60254-1:2005AS/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















#### **Electrical Specifications** Amp Hours (AH) Minutes of Discharge 100 HR 20 HR 10 HR 3 HR 1 HR @25A @56A @75A @85A @100A 114 100

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

## **Contact Us**



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