# EV512A-70

**DATA SHEET** 

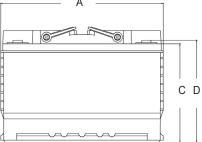


## **EV Traction Dry Cell Industrial Battery Block**

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**

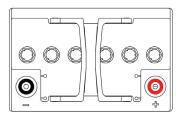


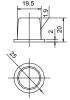


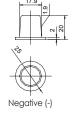


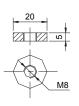
Terminal (SAE)

Optional Terminal (M8)









Mechanical Specifications						
Industry Reference	48-L3					
Length (A)	10.9 in	278 mm				
Width (B)	6.9 in	175 mm				
Height (C)	6.7 in	170 mm				
Total Height (D)	7.5 in	190 mm				
Weight	49 lbs	22 kgs				
Terminal (Opt'I)*	SAE (M8)					
Cells	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						
Volts	12 V					
80% DOD Voltage Cutoff	11.4 V					
RINT	7.00 mΩ					
Short Circuit (-68°F 20°C)	1700 A					
Self Discharge	<3% of capacity month @ 20°C (68°F)					
Cranking Amps**	485 @ 0°C (32°F)	405 @ -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 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)

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 60254-1:2005
  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















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

Ma	ax 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**



Unit 5-13511 Crestwood Place, Richmond, BC, V6V 2E9, Canada Email: info@discover-energy.com www.discover-energy.com



