EV512A-90 DATA SHEET

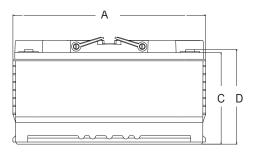


EV Traction Dry Cell Industrial Battery Block

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.

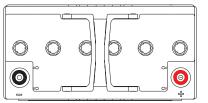
Terminal (SAE)

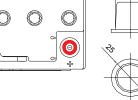
Mechanical Drawings





Optional Terminal (F12)





Mechanical Specifications					
Industry Reference	49-L5				
Length (A)	13.9 in	353 mm			
Width (B)	6.9 in	175 mm 170 mm			
Height (C)	6.7 in				
Total Height (D)	7.5 in	190 mm			
Weight	60 lbs	27 kgs			
Terminal (Opt'l)*	SAE (M8)				
Cells	6				
Electrolyte	1.2875 S.G. AGM				

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

M8

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**	630 @ 0°C (32°F)	525 @-18°C				
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.

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
99	87	83	80	68	54	169	60	40	34	25

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	

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 electronic 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



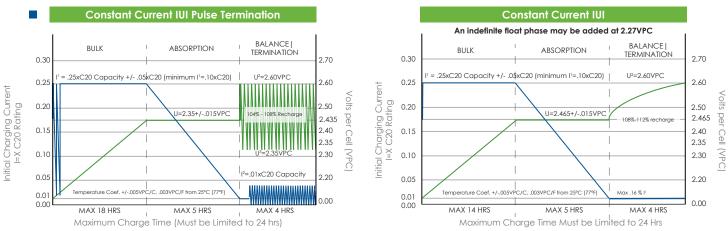


Contact Us

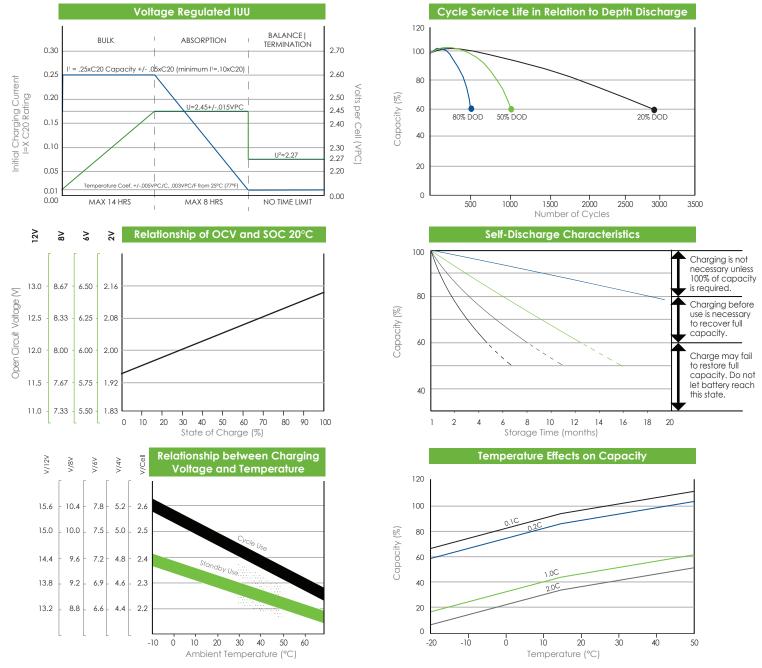


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NOTE: This algorithm uses a pulse termination criterion. As a safety precaution during the Finish phase, if the average cell voltage, or volts per cell (vpc), exceeds V2 and the charger output has been on for more than 30 seconds, the output is shut off until the vpc falls to V3. The finish phase then resumes and this "pulsing" continues until the target overcharge (108% - 112%) is reached.



Contact Discover Energy Corp. for OEM specific charging algorithms. engineering@discover-energy.com 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.