



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

6

Industry Reference

Length (A)

Width (B)

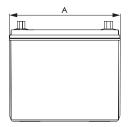
Height (C)

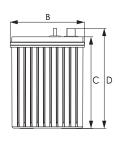
Weight

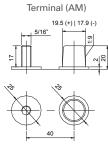
Total Height (D)

Terminal (Opt'l)* Cell(s)

Electrolyte







Optional Terminal (F10-M8)



ELECTRICAL SPECIFICATIONS

Voltage	12 V			
80% DOD Voltage Cutoff	11.4 V			
Internal Resistance	4.60 mΩ			
Short Circuit (20°C 68°F)	2400 A			
Self Discharge	Less than 3% per month (20°C 68°F)			
Cranking Amps**	630 @ 0°C (32°F)	525 @ -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)			
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**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

MECHANICAL SPECIFICATIONS

24

AM (F10-M8)

6

258 mm

172 mm

214 mm

235 mm

24 kgs

AGM

10.2 in

6.8 in

84 in

93 in

53 lbs

1.2875 S.G.

*TERMINAL TORQUE: Please refer to our document, located in the

Resources webpage (www.discoverbattery.com/resources).

Amp Hours (AH)					Minutes of Discharge					
100 HR	20 HR	10 HR	5 HR	3 HR	1 HR	@25A	@56A	@75A	@85A	@100A
94	85	78	72	66	54	155	57	38	32	27

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)
 Ground (STB, DOT-CFR-HMR49)
- Ground (STB, DOI-CFR-HMR49
 Water (IMDG amendment 27)
- Water (IIVIDG 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

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

- ISO, UL, QS, and TUV standards
- ETTS Germany
 Euro Bat classification for

 Euro Bat classification for Environmental Stewardship Standards





<u>На WEB-страницу товара</u>

TEMPERATURE EFFECTS ON CAPACITY

NOTE:

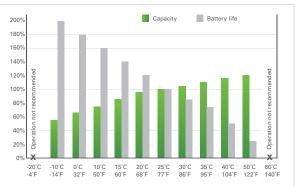
IUI with Pulse Termination algorithm uses a pulse termination criterion. As a safety precaution during the Finish phase, if the average cell voltage, or volts per cell (vpc), exceeds U2 and the charger within the hone on for proc

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

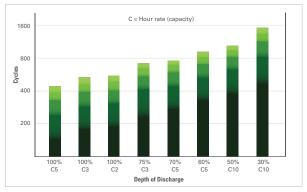
until the target overcharge (108% - 112%) is reached.

Temperature Coefficient: Adjust +/- 0.005VPC per °C (or 0.003VPC per °F) from 25°C (77°F).

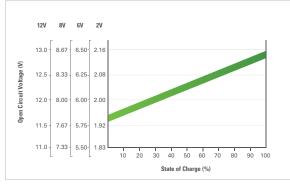
NOTE 2:



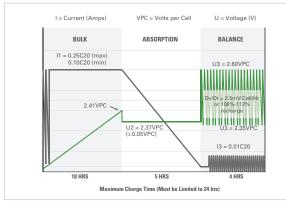
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE (25°C)



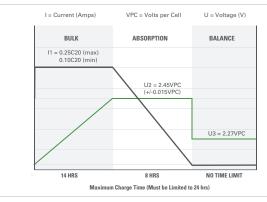
OPEN CIRCUIT VOLTAGE IN RELATION TO THE STATE OF CHARGE (20°C)



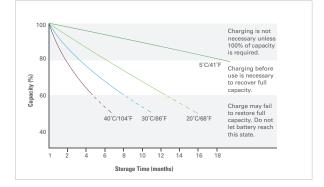
IUI WITH PULSE TERMINATION CHARGE PROFILE



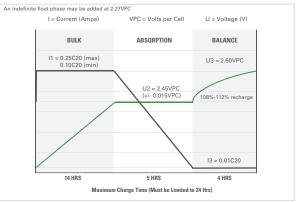
IUU CHARGE PROFILE



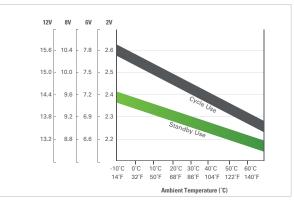
SELF-DISCHARGE CHARACTERISTICS



IUI CHARGE PROFILE



RELATION BETWEEN CHARGING, VOLTAGE AND TEMPERATURE



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