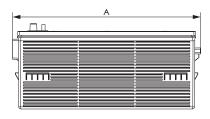


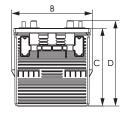


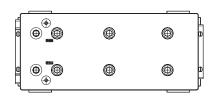
EV Traction Dry Cell Industrial Battery Block

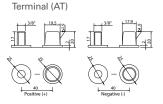
Discover® EV Series Industrial Batteries provide superior high integrity and reliability for commercial, industrial and private applications. The maintenance-free, thick plate construction, designed for tough applications and repeated deep discharging makes the EV Series the definitive choice for robustTraction 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	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'l)*	AT			
Cell(s)	6			
Electrolyte	1.2875 S.G. AGM			

*TERMINAL TOROUS: Please refer to our document located in the Resources webpage (www.discoverbattery.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)			
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.

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

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)
- Water (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

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

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















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

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 (vpp), 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.

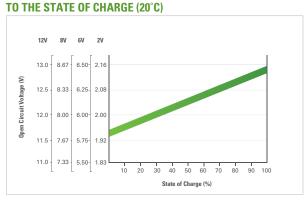
NOTE 2:

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

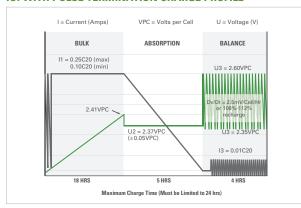
TEMPERATURE EFFECTS ON CAPACITY



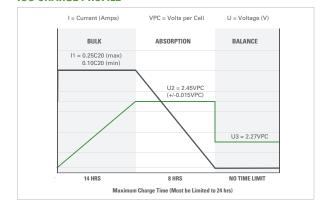
OPEN CIRCUIT VOLTAGE IN RELATION



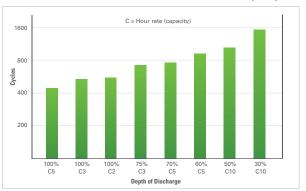
IUI WITH PULSE TERMINATION CHARGE PROFILE



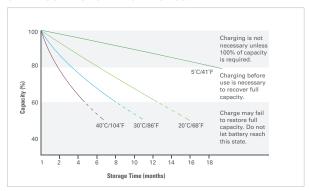
IUU CHARGE PROFILE



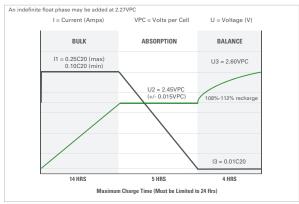
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE (25°C)



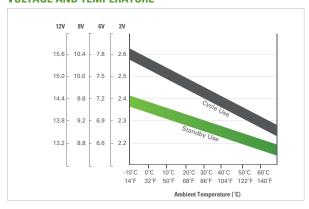
SELF-DISCHARGE CHARACTERISTICS



IUI CHARGE PROFILE



RELATION BETWEEN CHARGING, VOLTAGE AND TEMPERATURE



Discover® attempts to ensure the correctness of the product description and data contained herein. We reserve the right to change designs, specifications and pricing at one titing without notice or a policytion. It is the respecificity of the conduct of this information to useful or interpretation proceeding herein.