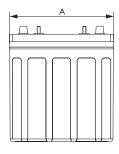


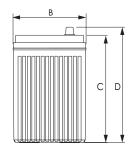


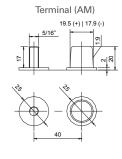
# **EV Traction Dry Cell Industrial Battery Block**

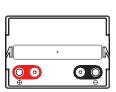
Discover® EV Series Industrial Batteries provide superior high integrity and reliability for commercial, industrial and private applications. The maintenance-free, thick plate construction, designed for tough applications and repeated deep discharging makes the EV Series the definitive choice for robustTraction 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**

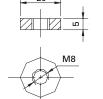












#### **MECHANICAL SPECIFICATIONS**

Industry Reference	GC8			
Length (A)	10.2 in 260 mm			
Width (B)	7.1 in 180 mm			
Height (C)	10.5 in 266 mr			
Total Height (D)	11.3 in	286 mm		
Weight	66 lbs	30 kgs		
Terminal (Opt'l)*	AM (F10-M8)			
Cell(s)	4			
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	8 V			
voitage	0 V			
80% DOD Voltage Cutoff	7.6 V			
Internal Resistance	2.30 mΩ			
Short Circuit (20°C   68°F)	4900 A			
Self Discharge	Less than 3% per month (20°C 68°F)			
Cranking Amps**	800 @ 0°C (32°F) 665 @ -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)			

\*\*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
180	160	150	130	115	90	320	115	80	65	50

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















<sup>\*\*\*</sup>CAUTION: Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum temperatures

## На WEB-страницу товара

## 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 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.

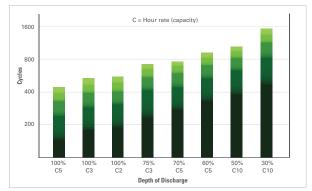
#### NOTE 2:

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

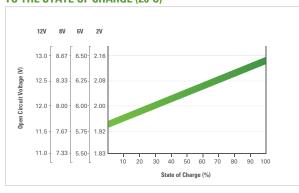
#### **TEMPERATURE EFFECTS ON CAPACITY**



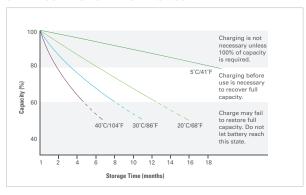
#### CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE (25°C)



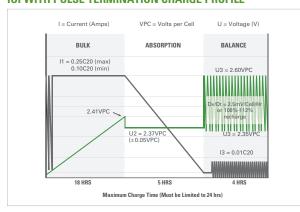
### **OPEN CIRCUIT VOLTAGE IN RELATION** TO THE STATE OF CHARGE (20°C)



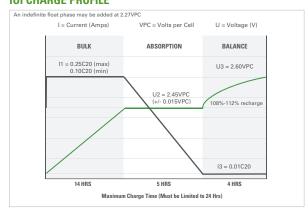
#### **SELF-DISCHARGE CHARACTERISTICS**



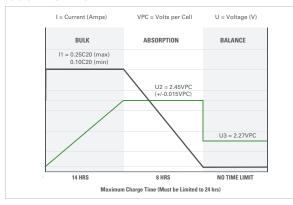
## **IUI WITH PULSE TERMINATION CHARGE PROFILE**



#### **IUI CHARGE PROFILE**



#### **IUU CHARGE PROFILE**



#### **RELATION BETWEEN CHARGING, VOLTAGE AND TEMPERATURE**

