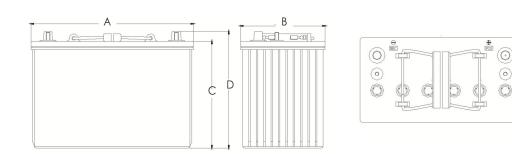
# EV512G-080 DATA SHEET



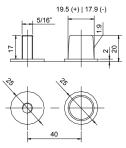
# **EV Traction Gel Industrial Battery Block**

Discover® EV Traction GEL Batteries provide superior integrity and reliability. The maintenance-free, thick plate construction, designed to deliver excellent cycle life and very good run times at high operating voltages in tough industrial use with regular discharges, makes the EV Gel Series an excellent choice for robust industrial applications.

## **Mechanical Drawings**



Terminal (AM)



= <sup>20</sup>		5
	$\rightarrow$	_ †
4	X	M8

Optional Terminal (M8)

Mechanical Specifications						
Industry Reference	31					
Length (A)	13.0 in	330 mm 172 mm 216 mm				
Width (B)	6.8 in					
Height (C)	8.5 in					
Total Height (D)	9.3 in	236 mm				
Weight	63.8 lbs	29 kgs				
Terminal (Opt'l)*	AM (M8) 6 cell					
Cells						
Electrolyte	Gel					

Electrical Specifications				
Volts	12 V 11.8 V 5.5 mOhms 3270A 3% per month (77°F / 25°C) -20°C (-4°F)   60°C (140°F)			
80% DOD Voltage Cutoff				
RINT				
Short Circuit (-68°F 20°C)				
Self Discharge				
Charging				
Discharge	-10°C (14°F)   60°C (140°F)			
Storage	-20°C (-4°F )   60°C (140°F)			
TERMINAL TOPOLIE: Plagra refer to our document located in the Persurce				

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

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
105	90	85	80	66	60	180	65	38	30	22

	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



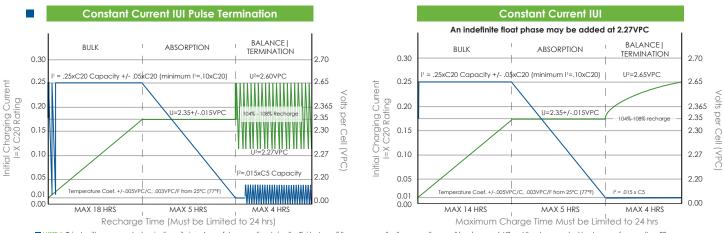


## **Contact Us**

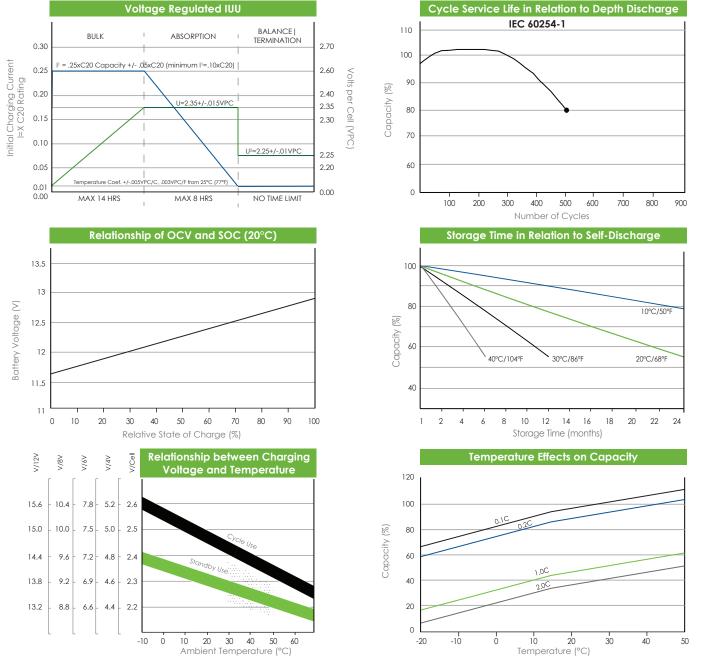


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NOTE 1: This algorithm uses a pulse termination criterion. As a safety precaution during the Finish phase, if the average cell voltage, or volts per cell (vpc), exceeds U2 and the charger output has been on for more than 30 seconds, the output is shut off until the vpc falls to U3. The finish phase then resumes and this "pulsing" continues until the target overcharge (104% - 106%) is reached. NOTE 2: Due to self-discharge characteristics of lead acid battery technologies, all batteries must be charged within 6 months of storage to prevent a possible permanent loss of capacity as a result of sulfation.



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.