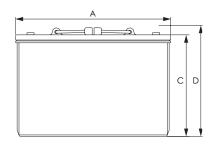
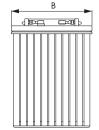
EV512G-080 DATASHEET

EV Traction Gel Industrial Battery Block

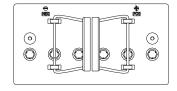
Discover® EVTraction GEL Batteries provide superior integrity and reliability. The maintenance-free, thick plate construction, designed to deliver excellent cycle life and very good run times at high operating voltages in tough industrial use with regular discharges, makes the EV Gel Series an excellent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

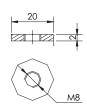
MECHANICAL DRAWINGS





Terminal (F10-M8)





MECHANICAL SPECIFICATIONS

Industry Reference	31				
Length (A)	13.0 in	330 mm			
Width (B)	6.8 in	172 mm			
Height (C)	8.5 in	216 mm			
Total Height (D)	9.1 in	231 mm			
Weight	63.8 lbs	29 kgs			
Terminal (Opt'I)*	F10-M8				
Cell(s)	6				
Electrolyte	Gel				

ELECTRICAL SPECIFICATIONS

Voltage	12 V
80% DOD Voltage Cutoff	11.8 V
Internal Resistance	5.5 mΩ
Short Circuit (20°C 68°F)	3270A
Self Discharge	Less than 3% per month (20°C 68°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)

^{*}TERMINAL TORQUE: Please refer to our document, located in the Resources webpage (www.discoverbatterv.com/resources). **CAUTION: Extra considerations must be given to depths of discharge, operating

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

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















voltages and currents when designing systems for use at maximum

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
cuttud has been on for more 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:

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.

NOTE 3:

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

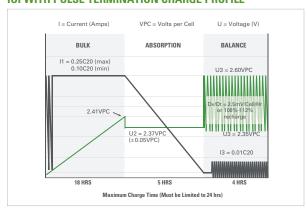
TEMPERATURE EFFECTS ON CAPACITY



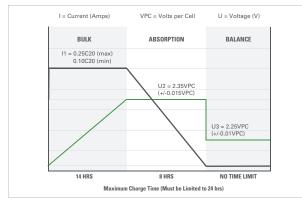
OPEN CIRCUIT VOLTAGE IN RELATION TO THE STATE OF CHARGE (20°C)



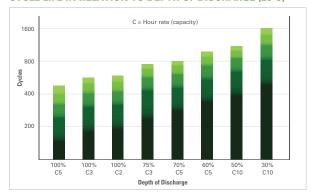
IUI WITH PULSE TERMINATION CHARGE PROFILE



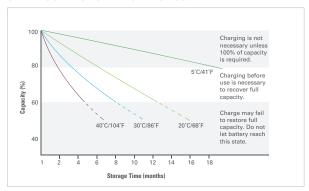
IUU CHARGE PROFILE



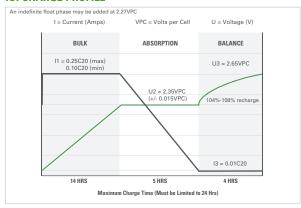
CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE (25°C)



SELF-DISCHARGE CHARACTERISTICS



IUI CHARGE PROFILE



RELATION BETWEEN CHARGING, VOLTAGE AND TEMPERATURE

