D122500D

DATA SHEET



Benefits and Features

life in float applications

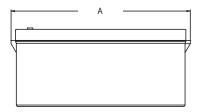
• Multiple terminal, configuration options and carrying handles available with most models Classified as a non-spillable battery and is not restricted for transportation

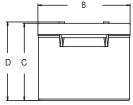
 Tank formed lead-tin-calcium plates deliver consistent dependable performance and promote long life · Maintenance-free technology • 99% gas recombination for extended

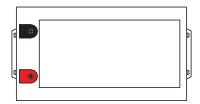
Cyclic AGM Battery Block

Discover® AGM Series VRLA Industrial Batteries provide superior high integrity and reliability for commercial, industrial, and private applications. The maintenance-free Valve Regulated Lead Acid (VRLA) construction make Discover® Standard AGM Series Batteries the definitive choice for mobility and Home Medical Equipment (HME), solar and renewable energy, electronics and security, marine and RV, and utility applications.

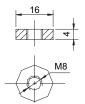
Mechanical Drawings











with UL94 V0 rating available
UL924 recognized flame arresting largessure safety vents

low

Air (IATA/ICAO provision 67) Surface (DOT-CFR-HMR49) Water (per IMDG amendment 27)

• 98% recyclable

Mechanical Specifications					
Length (A)	20.5 in	520 mm			
Width (B)	10.6 in 269 mm				
Height (C)	8.66 in 220 mm				
Total Height (D)	8.82 in	224 mm			
Weight	154 lbs	70 kgs			
Terminal (Opt'l)	F12				
Cells	6				
Electrolyte	AGM				

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

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

5 MIN

Electrical Specifications				
Voltage	12 V			
Internal Resistance	4 mΩ			
Short Circuit 20°C (68°F)	-			
20 HR	260 Ah			
10 HR	250 Ah			
5 HR	215 Ah			
1 HR	159 Ah			
15 MIN	-			
Charge Temperature	-10°C (14°F) to 50°C (122°F)			
Discharge Temperature	-20°C (-4°F) to 50°C (122°F)			
Maximum Discharge*	-40°C (-40°F) to 60°C (140°F)			

Vollage	12 4	
Internal Resistance	4 mΩ	
Short Circuit 20°C (68°F)	-	
20 HR	260 Ah	
10 HR	250 Ah	
5 HR	215 Ah	
1 HR	159 Ah	
15 MIN	-	

5 HR

44.5

44.0

43.5

43.0

42.3

10 HR

25.5

25.4

25.3

25.2

25.0

20 HR

13.3

13.2

13.2

13.1

13.0

Certifications and Standards

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















1.80V 473 318 234

Discharge Constant Current (Amperes at 25°C/77°F)

10 MIN

577

552

527

15 MIN

382

363



30 MIN

251

1 HR

159

156

153

150

145

3 HR

69.0

68.0

67.0

65.8

64.3

Contact Us



Unit 5-13511 Crestwood Place, Richmond, BC, V6V 2E9, Canada Email: info@discover-energy.com www.discover-energy.com

End Point V/C

1.60V

1.65V

1.70V

1.75V



Charge and Discharge					
Max Charge / Discharge Currents	Peak (5 seconds)	Peak (10 seconds)	Max Continuous		
Charge	1c20	0.75c20	0.25c20		
Discharge	15c20	10c20	0.5c20		

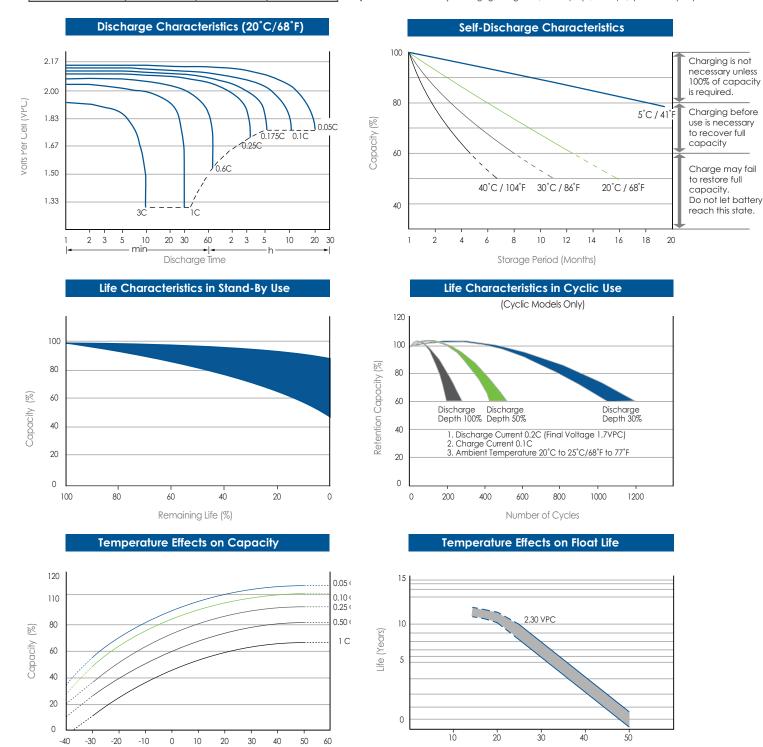
Temperature (°C)

Float (Stand-By) Use: Hold a constant voltage of 2.25vpc to 2.30vpc continuously.

When held at this voltage, the battery will seeks its own current level and maintain itself in a fully charged condition.

Cyclic Use: Limit initial currents to 0.25C20 amps. Charge until battery voltage reaches 2.40 to 2.45vpc. Hold at 2.40 to 2.45vpc until current drops to under 0.01C20 amps. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

Temperature Coefficient: Adjust charging voltage to +/- 0.005vpc (C, 0.003vpc/F) from 25°C (77°F).



Temperature (°C)