D21500D

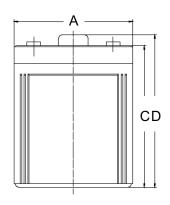
DATA SHEET

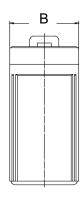


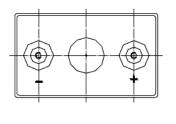
Cyclic AGM Battery Block

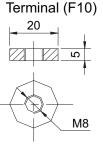
Discover® AGM Series VRLA Industrial Batteries provide superior high integrity and reliability for commercial, industrial, and private applications. The maintenance-free Valve Regulated Lead Acid (VRLA) construction make Discover® Standard AGM Series Batteries the definitive choice for mobility and Home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

Mechanical Drawings









Benefits and Features

- Tank formed lead-tin-calcium plates deliver consistent dependable performance and promote long life
- · Maintenance-free technology
- 99% gas recombination for extended 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 by:
 - Air (IATA/ICAO provision 67)
- Surface (DOT-CFR-HMR49)
- Water (per IMDG amendment 27)
- · Flame retardant ABS case and cover with UL94 V0 rating available
- UL924 recognized flame arresting low pressure safety vents
- 98% recyclable

Mechanical Specifications				
Length (A)	6.73 in	171 mm		
Width (B)	4.01 in	102 mm		
Height (C)	8.1 in 206 mm			
Total Height (D)	8.94in	227 mm		
Weight	17.9 lbs 8.10 kgs			
Terminal (Opt'l)	F10			
Cells	1			
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

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

10 MIN

290

275

260

15 MIN

218

207

196

Electrical Specifications				
Voltage	2 V			
Internal Resistance	4 mΩ			
Short Circuit 20°C (68°F)	-			
20 HR	160 Ah			
10 HR	150 Ah			
5 HR	133 Ah			
1 HR	95 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)			

Voltage	2 V		
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Discharge Temperature	-20°C (-4°F) to 50°C (122°F)		
Maximum Discharge*	-40°C (-40°E) to 60°C (140°E)		

5 HR

28.7

28.2

27.4

26.6

10 HR

15.8

15.6

15.4

15.2

15.0

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



20 HR













1.80V 118 Discharge Constant Power (Watts at 25°C/77°F)

= 1.5 1.6 5 5 5 5 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6 1.6									
End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	45 MIN	1 HR	2 HR	3 HR	5 HR
1.60V	-	420	381	290	218	182	117	79.3	58.0
1.65V	-	396	360	275	207	174	113	77.4	57.0
1.70V	-	371	339	260	197	166	109	75.3	56.0
1.75V	-	346	318	245	186	158	105	73.0	55.0
1.80V	-	321	296	229	175	149	100	70.5	53.8

30 MIN

145

139

132

125

1 HR

950

928

89.0

85.0

81.0

3 HR

40.7

39.2

38.0

37.0

35.0

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



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		

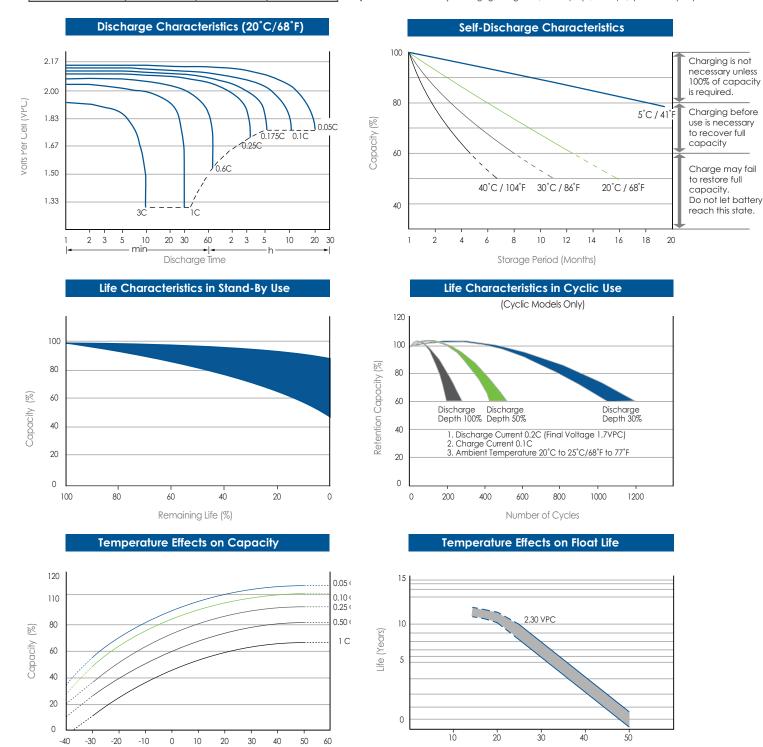
Temperature (°C)

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)