D22000D

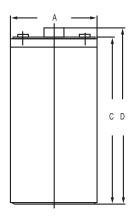
DATA SHEET

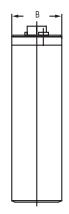


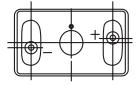
Cyclic AGM Battery Block

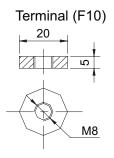
Discover® AGM Series VRLA Industrial Batteries provide superior high integrity and reliability for commercial, industrial, and private applications. The maintenance-free Valve Regulated Lead Acid (VRLA) construction make Discover® Standard AGM Series Batteries the definitive choice for mobility and Home 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
 - 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)	6.81 in	173 mm			
Width (B)	4.37 in	111 mm			
Height (C)	13.0 in	330 mm			
Total Height (D)	14.3 in	364 mm			
Weight	29.8 lbs 13.5 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.

Discharge Constant Current (Amperes at 25°C/77°F) 5 MIN

10 MIN

Electrical Specifications				
Voltage	2 V			
Internal Resistance	0.75 mΩ			
Short Circuit 20°C (68°F)	-			
20 HR	215 Ah			
10 HR	200 Ah			
5 HR	175 Ah			
1 HR	125 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)			

5 HR

37.8

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

10 HR

21.4













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Discharge Constant Power (Watts at 25°C/77°F)								
1.80V	-	305	235	160	105	48.6	34.0	20.0
1.75V	-	327	250	172	111	50.0	35.0	20.5
1.70V	-	348	265	183	116	53.0	36.1	20.9
1.65V	-	370	280	192	121	54.8	37.0	21.2

15 MIN

294

		•							
End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	45 MIN	1 HR	2 HR	3 HR	5 HR
1.60V	-	580	524	380	308	245	146	106	78.0
1.65V	-	559	499	364	299	235	142	104	76.6
1.70V	-	538	473	348	289	224	137	101	75.1
1.75V	-	517	446	331	280	213	132	98.0	73.5
1.80V	-	495	420	315	272	201	126	94.7	71.7

30 MIN

1 HR

125

3 HR

56.6

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



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				

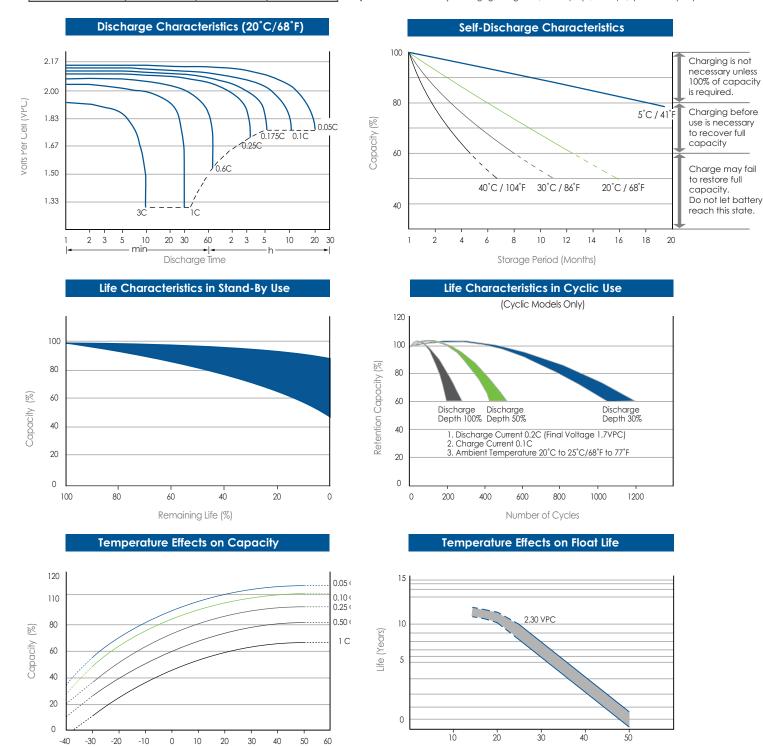
Temperature (°C)

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)