# D121000BD

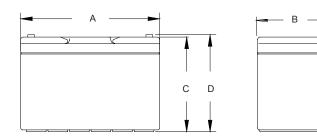
DATA SHEET

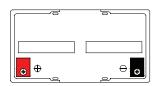


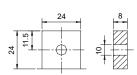
## Cyclic AGM Battery Block

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.

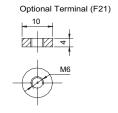
#### **Mechanical Drawings**







Terminal (F17)



Mechanical Specifications					
Length (A)	12.1 in	306 mm			
Width (B)	6.65 in	169 mm			
Height (C)	8.19 in 208 mm				
Total Height (D)	8.35 in	212 mm			
Weight	60.5 lbs	27.5 kgs			
Terminal (Opt'I)	F17 (F21)				
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.

Electrical Specifications		
Voltage	12 V	
Internal Resistance	6 mΩ	
Short Circuit 20°C (68°F)	-	
20 HR	100 Ah	
10 HR	94 Ah	
5 HR	82 Ah	
1 HR	62 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)	

Discharge Constant Current (Amperes at 25°C/77°F)									
End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60V	300	205	165	96.8	62.0	25.6	17.8	9.80	5.10
1.65V	276	194	157	92.6	59.5	24.8	17.3	9.75	5.09
1.70V	252	182	148	88.2	56.9	24.0	16.8	9.70	5.08
1.75V	225	169	139	83.6	54.2	23.1	16.2	9.60	5.06
1.80V	198	154	129	78.8	53.4	22.1	15.5	9.40	5.00
Discharge Consta	Discharge Constant Power (Watts at 25°C/77°F)								
End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	45 MIN	1 HR	2 HR	3 HR	5 HR
1.60V	528	372	304	186	138	117	68.2	48.4	33.8
1.65V	491	353	299	180	134	115	67.0	47.8	33.6
1.70V	454	335	290	176	132	113	65.8	47.3	33.3
1.75V	419	317	279	170	129	110	64.6	46.7	33.2
1.80V	381	296	270	164	126	107	63.9	45.9	32.9

#### **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

### **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















#### Contact Us



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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		

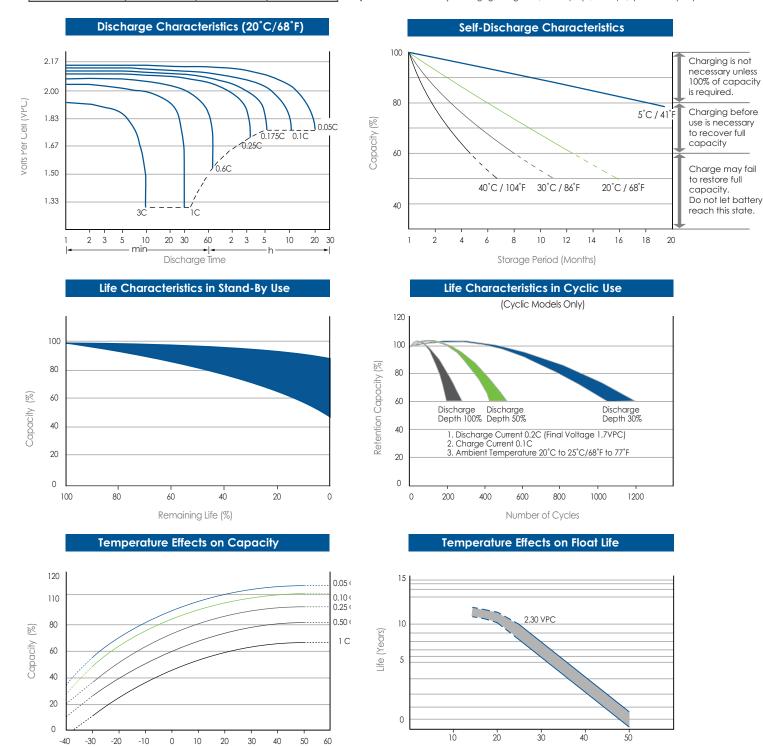
Temperature (°C)

**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)