# D12200D

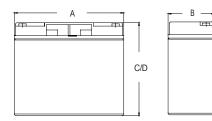
DATA SHEET

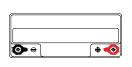


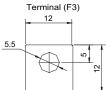
## Cyclic AGM Battery Block

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.

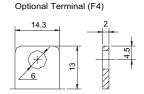
#### **Mechanical Drawings**











Mechanical Specifications					
Length (A)	7.1 in	181 mm			
Width (B)	3 in	77 mm			
Height (C)	6.6 in	167 mm			
Total Height (D)	6.6 in	167 mm			
Weight	11.9 lbs	5.4 kgs			
Terminal (Opt'I)	F3 (F4)				
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	11 mΩ		
Short Circuit 20°C (68°F)	-		
20 HR	20.0 Ah		
10 HR	18.5 Ah		
5 HR	17.0 Ah		
1 HR	14.0 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	75.0	53.5	42.5	24.5	14.0	5.60	3.60	1.84	1.04
1.65V	72.7	52.5	41.7	23.9	13.7	5.48	3.54	1.82	1.04
1.70V	70.3	51.4	40.8	23.3	13.4	5.35	3.47	1.80	1.03
1.75V	67.8	50.2	39.9	22.6	13.0	5.20	3.40	1.78	1.02
1.80V	65.1	48.9	38.9	21.8	12.6	5.05	3.30	1.75	1.00
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	145	102	80.5	46.5	34.5	27.5	15.3	11.0	7.1
1.65V	141	100	79.0	45.5	27.1	27.1	15.1	10.8	7.0
1.70V	136	97.5	77.2	44.4	33.2	26.7	14.8	10.6	6.9
1.75V	130	95.0	75.2	43.2	32.5	26.2	14.5	10.4	6.8
1.80V	123	92.0	73.0	41.7	31.7	25.7	14.1	10.2	6.65

#### **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			

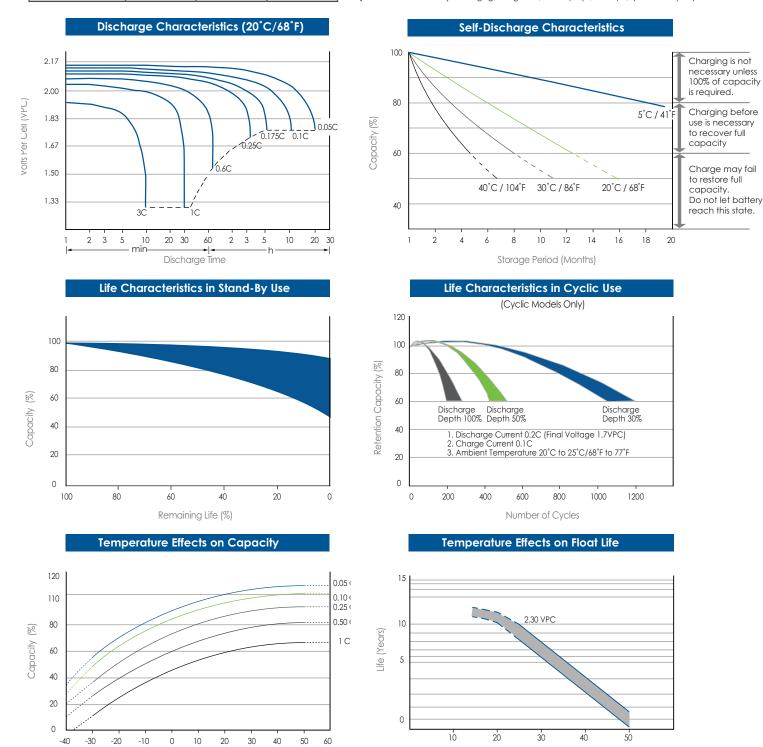
Temperature (°C)

**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)