# D121350D

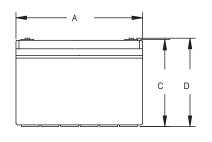
DATA SHEET

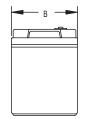


## Cyclic AGM Battery Block

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.

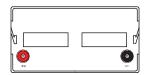
#### **Mechanical Drawings**



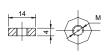


Terminal (F12)

Optional Terminal (F11)







Mechanical Specifications					
Length (A)	13.5 in	341 mm			
Width (B)	6.81 in	173 mm			
Height (C)	11.14 in	283 mm			
Total Height (D)	11.33 in	288 mm			
Weight	91.3 lbs	41.5 kgs			
Terminal (Opt'l)	F12 (F11)				
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 Specificat	trical Specifications			
Voltage	12 V			
Internal Resistance	4 mΩ			
Short Circuit 20°C (68°F)	=			
20 HR	140 Ah			
10 HR	134 Ah			
5 HR	121 Ah			
1 HR	92 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	440	310	245	152	92	39.5	25.3	13.8	7.2
1.65V	423	297	236	147	89	38.6	25	13.8	7.2
1.70V	404	283	226	142	85.5	37.5	24.6	13.7	7.15
1.75V	383	267	216	136	82	36.4	24.2	13.6	7.1
1.80V	361	249	205	129	78	35.2	23.7	13.4	7
Discharge Consta	Discharge Constant Power (Watts at 25°C/77°F)								
End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN		1 HR	2 HR		
			15 741114	30 MIIN	45 MIN	IHK	2 HK	3 HR	5 HR
1.60V	760	550	480	285	<b>45 MIN</b> 217	1 HK 175	103	72	5 HK
1.60V 1.65V	760 730	550 525							
			480	285	217	175	103	72	51
1.65V	730	525	480 460	285 273	217	175	103	72 70.5	51 50.2

#### **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



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



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			

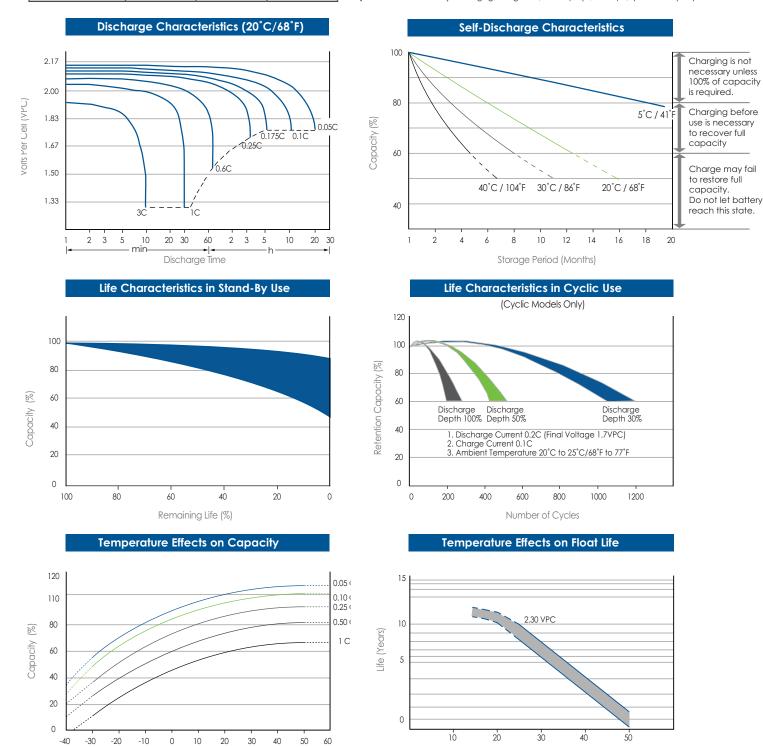
Temperature (°C)

**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)