D121200DS

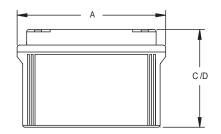
DATA SHEET

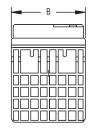


Cyclic AGM Battery Block

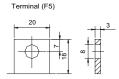
Discover® AGM Series VRLA Industrial Batteries provide superior high integrity and reliability for commercial, industrial, and private applications. The maintenance-free Valve Regulated Lead Acid (VRLA) construction make Discover® Standard AGM Series Batteries the definitive choice for mobility and Home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

Mechanical Drawings











Mechanical Specifications					
Length (A)	16.1 in	410 mm			
Width (B)	6.63 in	176 mm			
Height (C)	8.94 in	227 mm			
Total Height (D)	8.94 in	227 mm			
Weight	79.2 lbs	36.0 kgs			
Terminal (Opt'l)	F5 (F12)				
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	4.0 mΩ	
Short Circuit 20°C (68°F)	-	
20 HR	128 Ah	
10 HR	120 Ah	
5 HR	102 Ah	
1 HR	72 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	350	265	202	125	72.0	32.8	22.0	12.4	6.65
1.65V	332	253	194	120	71.0	32.2	21.6	12.4	6.60
1.70V	312	239	184	114	69.5	31.5	21.1	12.3	6.55
1.75V	290	224	174	108	68.0	30.7	20.4	12.2	6.50
1.80V	265	206	162	100	66.0	29.7	19.8	12.0	6.40
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	600	450	380	230	180	143	78.0	58.1	40.8
1.65V	568	428	365	223	176	141	76.5	57.2	40.1
1.70V	533	403	347	213	170	139	74.5	56.0	39.3
1.75V	505	375	327	203	164	136	72.5	54.7	38.5
1.80V	473	345	305	190	156	132	700	53.2	37.5

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		

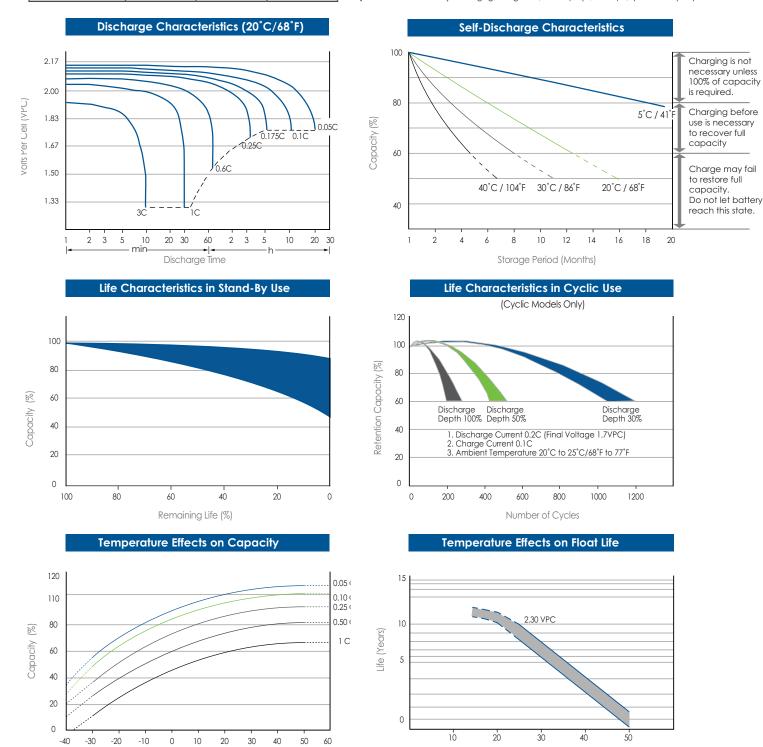
Temperature (°C)

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)