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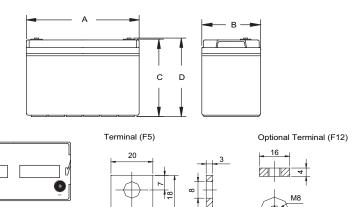
DATA SHEET



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)	12.9 in	328 mm		
Width (B)	6.74 in	171 mm		
Height (C)	8.43 in 214 mm			
Total Height (D)	8.66 in	220 mm		
Weight	68.2 lbs 31.0 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	6 mΩ		
Short Circuit 20°C (68°F)	-		
20 HR	105 Ah		
10 HR	100 Ah		
5 HR	87 Ah		
1 HR	64 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	323	221	182	103	64.0	26.5	18.2	10.3	5.45
1.65V	296	207	173	99.0	63.0	26.0	18.0	10.3	5.45
1.70V	270	192	164	96.0	62.0	25.5	17.7	10.2	5.40
1.75V	242	179	153	93.0	61.0	24.9	17.4	10.1	5.35
1.80V	214	164	143	91.0	60.0	24.3	17.0	10.0	5.25
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	556	392	320	194	144	124	70.3	49.6	34.7
1.65V	517	372	315	188	140	122	69.1	49.0	34.5
1.70V	478	353	305	183	137	121	67.8	48.5	34.2
1.75V	441	334	294	177	134	117	66.6	47.9	34.0
1.80V	401	312	284	171	131	114	65.9	47.1	33.7

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		

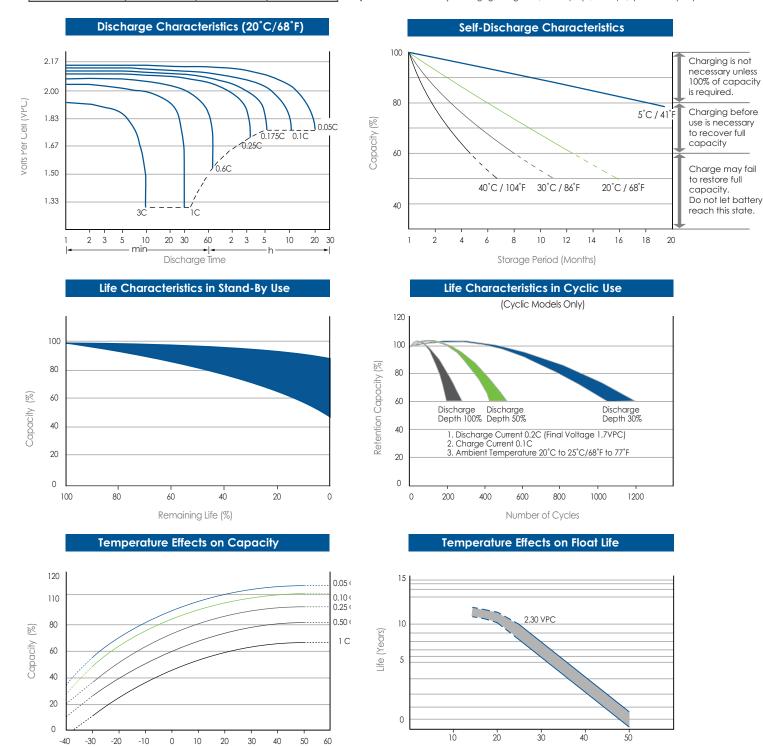
Temperature (°C)

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)