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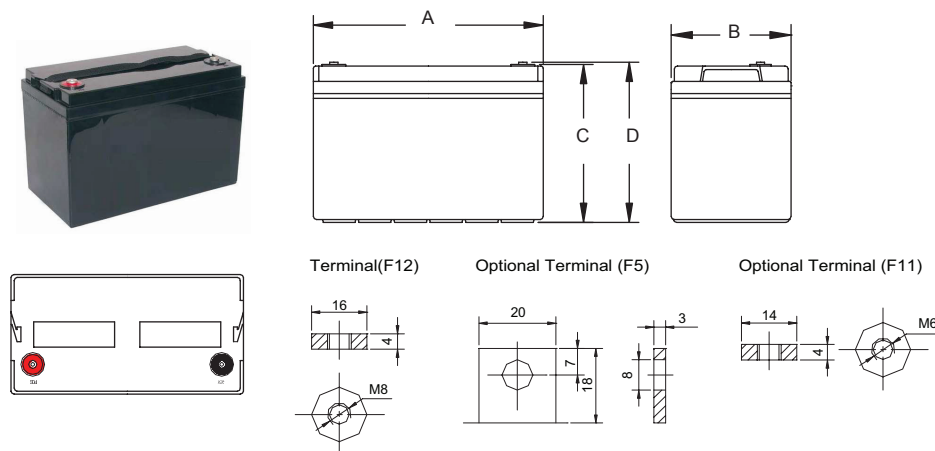
DATA SHEET



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



- 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 by:
 - 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 available.
- 98% recyclable.

Mechanical Specifications		
Industry Reference	-	
Length (A)	12.9 in	320 mm
Width (B)	6.74 in	171 mm
Height (C)	8.43 in	214 mm
Total Height (D)	8.66 in	220 mm
Weight	68.3 lbs	31.0 kgs
Terminal (Opt'l)	F12 (F5)(F11)	
Terminal Torque (NM)	-	
Cells	6 Cell	

CAUTION:** Extra considerations must be given to depths of discharge, operating voltages and currents when designing systems for use at maximum temperatures.

Electrical Specifications	
Volts	12 V
RINT	5 mΩ
Short Circuit (68°F/20°C)	-
20 HR	110 Ah
10 HR	105 Ah
5 HR	100 Ah
1 HR	70 Ah
15 MIN	-
Standard Charge	50°F / -10°C to 122°F / 50°C
Standard Discharge	-4°F / -20°C to 122°F / 50°C
Maximum Discharge**	-40°F / -40°C to 140°F / 60°C

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
- EITS Germany
- Euro Bat classification for Environmental Stewardship Standards.



Discharge Constant Current (Amperes at 77°F / 25°C)

End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60V	315	239	180	113	65.0	31.2	19.8	11.1	5.99
1.65V	299	228	175	108	63.9	30.7	19.4	11.1	5.94
1.70V	281	215	166	103	62.6	30.0	19.2	11.0	5.90
1.75V	261	202	157	97	61.2	29.2	19.0	10.9	5.85
1.80V	239	185	146	90	59.4	28.3	17.8	10.8	5.75

Discharge Constant Power (Watts at 77°F / 25°C)

End Point V/C	5 MIN	10 MIN	15 MIN	30 MIN	45 MIN	1 HR	2 HR	3 HR	5 HR
1.60V	540	405	342	207	162	129	70.2	52.3	36.7
1.65V	511	385	329	201	158	127	68.9	51.5	36.1
1.70V	480	363	312	192	153	125	67.1	50.4	35.4
1.75V	455	338	294	183	148	122	65.3	49.2	34.7
1.80V	426	311	275	171	140	119	63.0	47.9	33.8

Contact Us



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Charge and Discharge

Max Charge / Discharge Currents	Peak (5 seconds)	Peak (10 seconds)	Max Continuous
Charge	1C20Hr	0.75C20Hr	0.25C20Hr
Discharge	1.5C20Hr	10C20Hr	0.5C20Hr

"Float" or "Stand-By" Service: Hold a constant voltage source of 2.25vpc to 2.30vpc continuously.

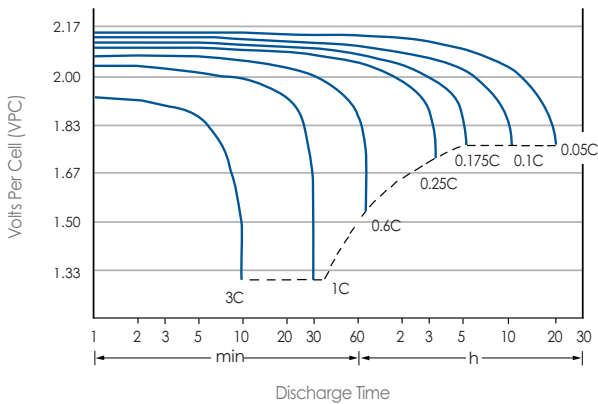
When held at this voltage, the battery will seek its own current level and maintain itself in a fully charged condition.

Cyclic Application: Limit initial currents to 0.25C20 ampere. Charge until battery voltage (under charge) reaches 2.4 to 2.45vpc. Hold at 2.40 to 2.45vpc until current drops to under 0.01C20 ampere. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

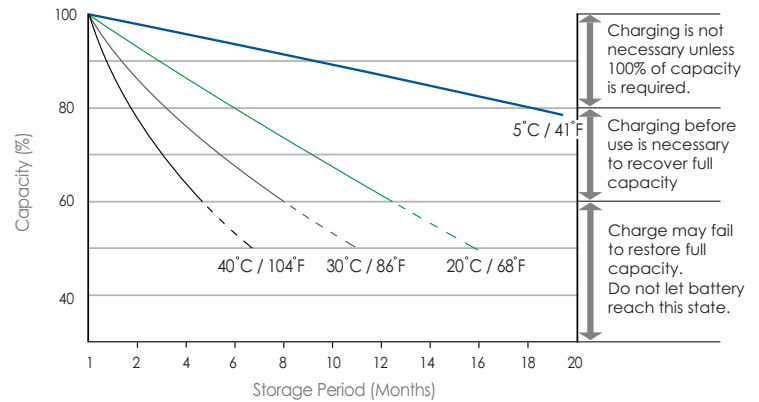
Temperature Coefficient: Adjust Charging Voltage to +/- 0.005vpc/C, 0.003vpc/F from 25°C / 77°F.

Performance Characteristics

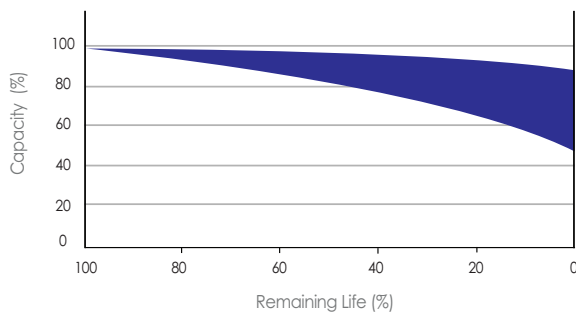
Discharge Characteristics (20°C/68°F)



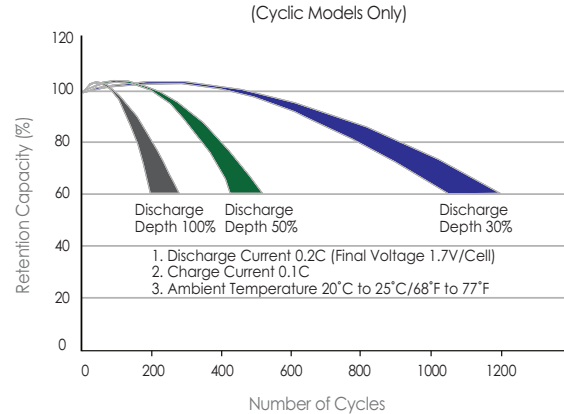
Self-Discharge Characteristics



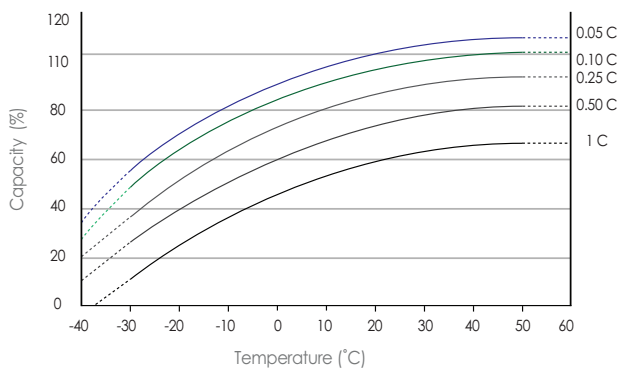
Life Characteristics in Stand-By Use



Life Characteristics in Cyclic Use



Temperature Effects on Capacity



Temperature Effects on Float Life

