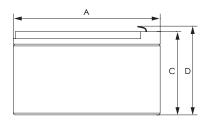


DATASHEET

Valve Regulated Lead Acid Battery

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)	5.94 in	151 mm			
Width (B)	2.56 in	65 mm			
Height (C)	3.74 in	95 mm			
Total Height (D)	3.98 in	101 mm			
Weight	4.5 lbs	2.06 kgs			
Terminal (Opt'I)	F2 (F1)				
Cells	6				
Electrolyte	AGM				

NOTE: There is a tolerance of +/-2%.

TERMINAL TORQUE: Please refer to our document, located in the Resources webpage (discoverbattery.com/resources).

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

DISCHARGE CONSTANT CURRENT (AMPERES AT 25°C/77°F)

Final Voltage (VPC)	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60V	28.0	17.6	14.2	8.00	4.30	1.89	1.26	0.70	0.37
1.65V	26.5	16.8	13.6	7.70	4.20	1.84	1.24	0.69	0.37
1.70V	25.0	16.0	13.0	7.39	4.10	1.80	1.22	0.68	0.36
1.75V	23.5	15.2	12.4	7.10	4.00	1.74	1.20	0.67	0.36
1.80V	22.1	14.4	11.8	6.83	3.90	1.68	1.18	0.66	0.35

DISCHARGE CONSTANT POWER (WATTS AT 25°C/77°F)

Final Voltage (VPC)	5 MIN	10 MIN	15 MIN	30 MIN	45 MIN	1 HR	2 HR	3 HR	5 HR
1.60V	51.7	34.7	27.2	15.0	11.4	8.80	5.02	3.56	2.30
1.65V	49.2	33.0	26.1	14.4	10.8	8.40	4.89	3.47	2.26
1.70V	46.6	31.1	25.0	13.9	10.3	8.00	4.77	3.38	2.22
1.75V	44.1	29.3	24.1	13.3	9.90	7.60	4.62	3.28	2.18
1.80V	41.4	27.7	23.0	12.8	9.60	7.31	4.47	3.17	2.12

BENEFITS & FEATURES

Optimized lead calcium plate technology deliver high power denisty and consistent performance.

Special grid alloy and paste formula to reduce gassing and self-discharge.

Sealed valve regulated non-spillable maintenance-free technology.

99% gas recombination for extended life in float or cyclic applications.

Multiple battery terminal options and carrying handles.

UL924 recognized flame arresting low pressure safety vents.

Flame retardant ABS case and cover with UL94 V0 rating available.

Up to 12 year design life in float service models.

98% recyclable.

Classified as a non-spillable battery and is not restricted for transportation by: • Air (IATA/ICAO provision 67)

- Ground (STB, DOT-CFR-HMR49)
- Water (per IMDG amendment 27)

CERTIFIED QUALITY

Discover[®] and its facilities and products are tested and certified to multiple standards:

- ISO, UL, CE, and QS standards
 ETTS Germany
- Euro Bat classification for Environmental Stewardship 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



Updated: July 1st, 2017



OptionalTerminal (F1)



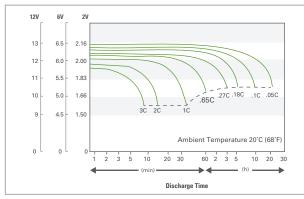
ELECTRICAL SPECIFICATIONS

Voltage	12 V			
Internal Resistance	22 mΩ			
Short Circuit 20°C (68°F)	-			
20 HR	7.0 Ah			
10 HR	6.6 Ah			
5 HR	6.0 Ah			
1 HR	4.3 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)			

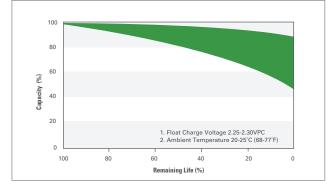
CHARGE AND DISCHARGE

Max Charge / Discharge Currents	Peak (5 seconds)	Peak (10 seconds)	Max Continuous	
Charge	1c20	0.75c20	0.25c20	
Discharge	15c20	10c20	0.5c20	

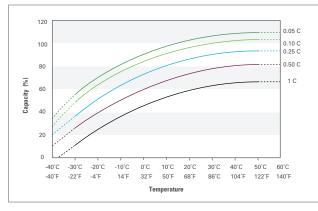
DISCHARGE CHARACTERISTICS



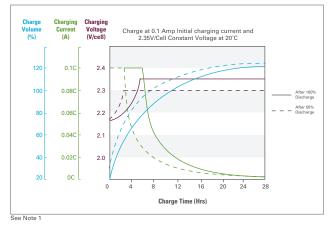
LIFE CHARACTERISTICS IN STAND-BY USE



TEMPERATURE EFFECTS ON CAPACITY



STANDBY/FLOAT APPLICATIONS

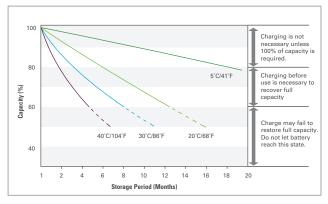


Note 1 - Float (Stand-By) Use: Hold a constant voltage of 2.25vpc to 2.30vpc continuously. When held at this voltage, the battery will seeks its own current level and maintain itself in a fully charged condition.

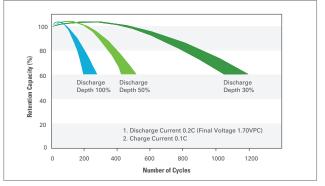
Note 2 - Cyclic Use: Limit initial currents to 0.25C20 amps. Charge until battery voltage reaches 2.40 to 2.45vpc. Hold at 2.40 to 2.45vpc until current drops to under 0.01C20 amps. Battery is fully charged under these conditions, and charger should be disconnected or switched to "float" voltage.

Note 3 - Temperature Coefficient: For temperatures below 25°C, adjust +0.005VPC/°C (or 0.003VPC per "F). For temperatures above 25°C, adjust -0.005VPC/°C (or 0.003VPC per "F).

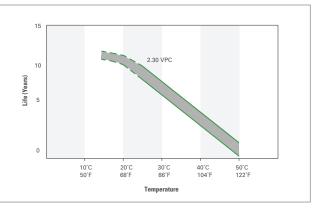
SELF-DISCHARGE CHARACTERISTICS



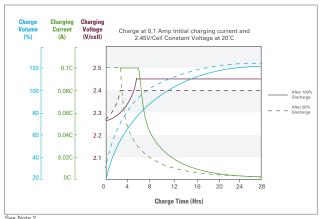
LIFE CHARACTERISTICS IN CYCLIC USE (CYCLIC MODELS ONLY)



TEMPERATURE EFFECTS ON FLOAT LIFE



CYCLIC APPLICATIONS



Discover[®] attempts to ensure the correctness of the product description and data contained herein. We reserve the right to change designs, specifications and pricing at any time without notice or obligation. It is the responsibility of the reader of this information to verify any and all information presented herein.