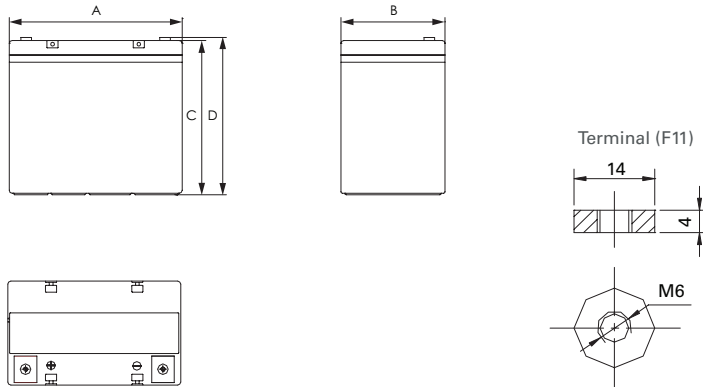


Valve Regulated Lead Acid Battery

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)	9.0 in	229 mm
Width (B)	5.4 in	138 mm
Height (C)	8.1 in	208 mm
Total Height (D)	8.3 in	212 mm
Weight	40 lbs	18.2 kgs
Terminal (Opt'l)	F11	
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).
 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	12V
Internal Resistance	5.5 mΩ
Short Circuit 20°C (68°F)	-
20 HR	57.0 Ah
10 HR	55.0 Ah
5 HR	53.5 Ah
1 HR	48.2 Ah
15 MIN	34.2 Ah
Charge Temperature	-10°C (14°F) to 50°C (122°F)
Discharge Temperature	-40°C (-40°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)

Final Voltage (VPC)	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60V	246	176	145	78	48.2	18.5	11.5	5.8	3.05
1.65V	225	168	140	76	46.9	18.1	11.3	5.8	3.00
1.67V	-	-	-	-	-	-	-	-	-
1.70V	218	160	134	74	45.5	17.6	11.0	5.7	2.95
1.75V	200	152	128	72	44.1	17.1	10.7	5.6	2.90
1.80V	185	143	121	69.8	42.5	16.5	10.3	5.5	2.85

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	444	313	260	146	120	86.0	47.7	35.2	23.5
1.65V	425	301	253	142	116.5	83.5	46.6	34.4	23.0
1.67V	420	296	250	140	115.0	82.0	46.0	34.0	22.8
1.70V	410	290	242	138	112.5	81.0	45.4	33.5	22.5
1.75V	385	278	233	134	108.5	78.5	44.2	32.6	22.0
1.80V	353	265	223	130	104.5	75.5	42.9	31.7	21.4

BENEFITS & FEATURES

Optimized lead calcium plate technology deliver high power density 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



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

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 seek 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).

DISCHARGE CHARACTERISTICS



SELF-DISCHARGE CHARACTERISTICS



LIFE CHARACTERISTICS IN STAND-BY USE



LIFE CHARACTERISTICS IN CYCLIC USE (CYCLIC MODELS ONLY)



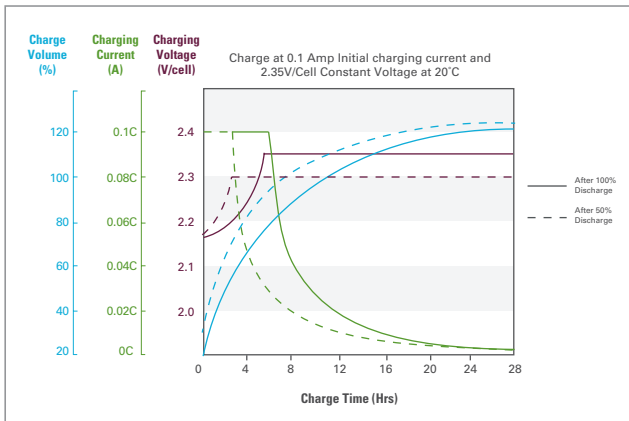
TEMPERATURE EFFECTS ON CAPACITY



TEMPERATURE EFFECTS ON FLOAT LIFE

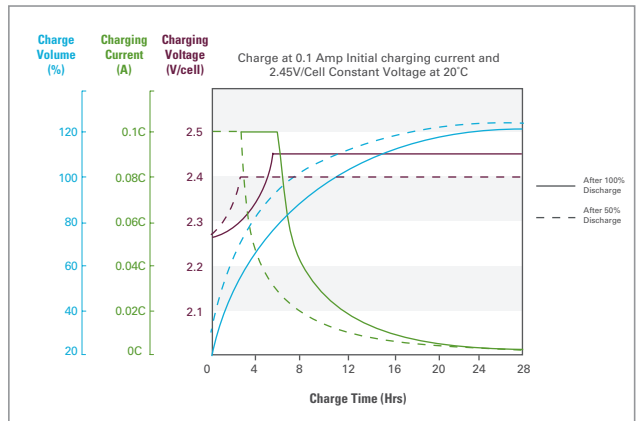


STANDBY/FLOAT APPLICATIONS



See Note 1

CYCLIC APPLICATIONS



See Note 2