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AGM Float Standby Battery

Discover® VRLA AGM Float Standby batteries deliver high reliability in general purpose applications to avoid disruptions in life and productivity. The batteries are maintenance- free and the ideal solution for medical devices, security systems and emergency lighting, among other applications.

ELECTRICAL SPECIFICATIONS

Voltage (V)

(m!&)

68°F)

68°F)

NOTE 4:

Internal Resistance

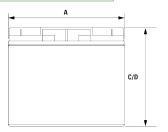
Short Circuit (A) (20°C/

Self-Discharge (20°C/

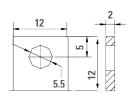
Charge Temperature

Discharge Temperature

Storage Temperature











12

500

2-3% per month

Min: -10°C (14°F) | Max: 50°C (122°F)

Min: -40°C (-40°F) | Max: 50°C (122°F)

Extra considerations must be given when NOTE 3: _____ designing systems for use at maximum temperatures. Internal Resistance is approximate.

MECHANICAL SPECIFICATIONS

Industry Reference			
Length A (in/mm)	7.1	181	
Width B (in/mm)	3	77	
Height C (in/mm)	6.6	167	
Total Height D (in/mm)	6.6	167	
Weight (lbs/kgs)	11.2	5.1	
Terminal *	F3SQR		
Technology	AGM, VRLA		

Dimensions have a ±2 mm (0.08 in) tolerance. Weights may vary.

Refer to on website for torque values.2:

PERFORMANCE SPECIFICATIONS

Amp Hours (AH)							
1 HR 5 HR		10 HR	20 HR				
11	15	16	18				

1HR @1.60VPC,5HR @1.75VPC;10 HR@ 1.80VPC;20 HR @1.80VPC.All at 30°C/86°F

Discharge Constant Current (Amperes) @ 25°C / 77°F									
VPC/Time	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60 VPC	63.70	42.80	32.60	19.20	11.00	4.49	3.05	1.70	0.95
1.65 VPC	61.40	41.80	31.80	18.80	10.70	4.40	3.00	1.68	0.94
1.70 VPC	59.10	40.80	31.00	18.40	10.40	4.30	2.95	1.66	0.93

BENEFITS

EXTENDED SERVICELIFE

- * Up to 5 year design life

EXTREME TEMPERATURES

- *Wide ambient operating temperature
- *Low temperature operation superior to FLA / Gel batteries

- *Valve Regulated Lead-Acid, AGM
- Maintenance- free, nonspillable, no-gassing
- * Flame retardant (UL94:V0) ABS case and cover available

CERTIFIEDQUALITY

Discover® manufacturing facilities are fully certified to ISO 9001/14001 and

Designed in accordance with and published in compliance with applicable standards, including:

- * IFC 60896-21/22
- BS EN 60254-1:2005
- * UL, CE Health Safety Certified

SHIPPING CLASSIFICATION

- * Classified as a nonspillable battery
- * Without restriction for transport by Sea (IMDG amendment 27)
- *Without restriction for transport by Air (IATA/ICAO provision 67)

- Low self-discharge rates prolongs shelf life
- 99% gas recombination extends life

- RELIABLE AND SAFE

- ullet Without restriction for transport by Ground (STB, DOT-CFR-HMR49)

1.75 VPC	56.80	39.60	30.20	18.00	10.00	4.21	2.90	1.64	0.91
1.80 VPC	54.50	38.60	29.40	17.50	9.70	4.12	2.85	1.62	0.90

Discharge Constant Power (Watts) @ 25°C / 77°F									
VPC/Time	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60 VPC	129.00	81.70	64.90	38.00	22.40	10.50	6.57		
1.65 VPC	125.00	79.20	63.40	36.80	21.50	9.84	6.57		
1.70 VPC	120.00	76.00	60.80	35.60	20.40	9.09	6.24		
1.75 VPC	113.00	72.70	58.30	34.30	19.30	8.29	5.89		
1.80 VPC	107.00	69.30	56.00	32.90	18.00	7.38	5.46		



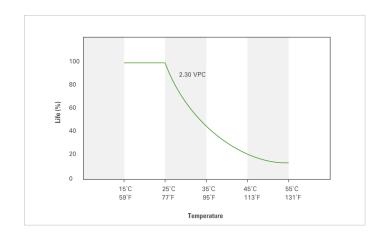




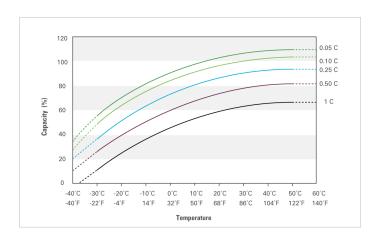




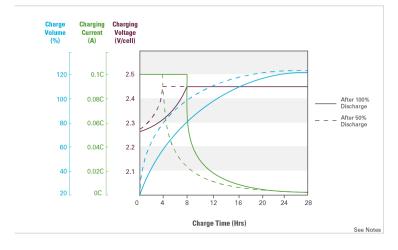
Temperature Effects on Float Life



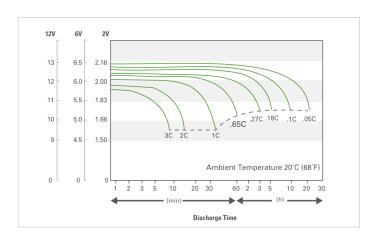
Temperature Effects on Capacity



Charge Characteristics (Cyclic)



Discharge Characteristics



Self-Discharge Characteristics



- 1. Due to self-discharge characteristics of lead acid battery technologies, batteries should be charged within 6 months of storage to ensure optimum performance, prevent sulphation and permanent
- capacity loss.

 2 Charge profile recommendations correspond to battery voltages at 25°C (77°F). For temperatures below, adjust +5mVPC/°C (+3mVPC/°F). Temperatures above, adjust -5mVPC/°C (-3mVPC/°F). Temperature compensated charging helps ensure optimum battery runtime and life performance.

 3. Charge until battery voltage reaches 2.45VPC and hold until current tapers down to 0.01C20 amps. Battery is fully charged under these conditions and charger should be disconnected or switched to
- "float" voltage. For standby / float use, a constant charge voltage of 2.25-2.30VPC is also acceptable. Hold until the battery seeks its own current level and maintain itself in a fully charged condition.

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