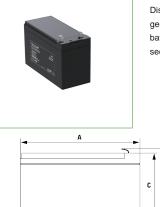
iscover[®] **Innovative Battery Solutions**

D1272

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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

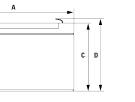
Short Circuit (A) (20°C/

Self-Discharge (20°C /

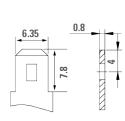
Charge Temperature

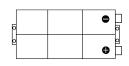
Discharge Temperature

Storage Temperature









12

35

300

2-3% per month

Min: -10°C (14°F) | Max: 50°C (122°F)

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

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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)	5.9	151		
Width B (in/mm)	2.6	65		
Height C (in/mm)	3.7 95			
Total Height D (in/mm)	4	101		
Weight (lbs/kgs)	4.73	2.15		
Terminal *	F2			
Technology	AGM, VRLA			

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

NOTE 2: Refer to terminal guide on website for torque

PERFORMANCE SPECIFICATIONS

Amp Hours (AH)								
1 HR	5 HR	10 HR	20 HR					
4.5	6.2	6.8	7.2					

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	29.40	18.40	14.80	8.30	4.56	1.91	1.30	0.72	0.38
1.65 VPC	27.50	17.50	14.20	7.90	4.40	1.86	1.28	0.71	0.38
1.70 VPC	26.00	16.70	13.60	7.62	4.22	1.80	1.26	0.71	0.37

BENEFITS

EXTENDED SERVICE LIFE

- * Up to 5 year design life
- * Low self-discharge rates prolongs shelf life
- *99% gas recombination extends life

EXTREME TEMPERATURES

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

RELIABLE AND SAFE

- *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 OSHA 18001 standards

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

- IEC 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)

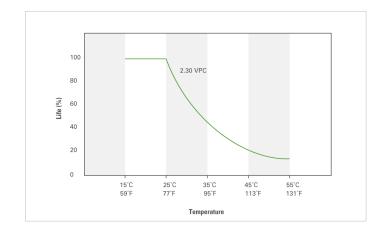
*Without restriction for transport by Ground (STB, DOT-CFR-HMR49)

1.75 VPC	24.40	15.70	13.00	7.24	4.04	1.73	1.24	0.70	0.37
1.80 VPC	22.80	14.80	12.40	7.03	3.84	1.67	1.21	0.68	0.36

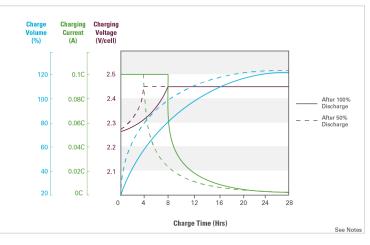
	Discharge Constant Power (Watts) @ 25°C / 77°F								
VPC/Time	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60 VPC	52.50	35.30	28.50	158.00	9.30	3.68	2.38		
1.65 VPC	49.60	33.50	27.20	15.20	8.90	3.56	2.34		
1.70 VPC	46.70	31.80	25.80	14.50	8.52	3.49	2.30		
1.75 VPC	43.50	29.60	24.60	13.80	8.13	3.38	2.25		
1.80 VPC	40.20	27.50	23.20	13.20	7.75	3.27	2.19		



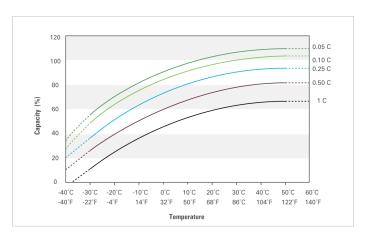
Temperature Effects on Float Life



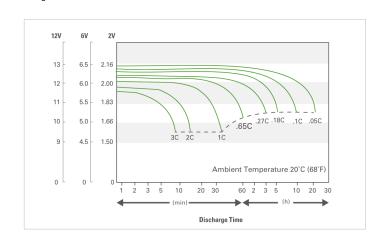
Charge Characteristics (Cyclic)



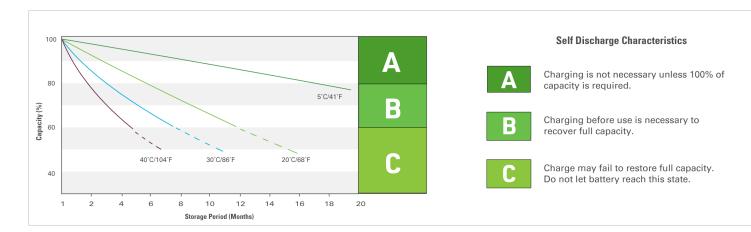
Temperature Effects on Capacity



Discharge Characteristics



Self-Discharge Characteristics



NOTES

- 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 subphation 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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