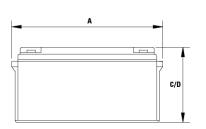
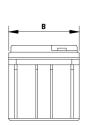


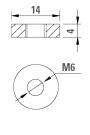


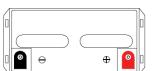
AGM Deep Cycle Cyclic Battery

Discover® VRLA AGM Deep Cycle batteries deliver deep-cycle and cyclic discharging for a general range of stationary applications such as backup power, solar, and renewable energy storage. The batteries are maintenance-free, safe, easy to use and a start to reducing energy cost and grid dependence.











ELECTRICAL SPECIFICATIONS

Voltage (V)

Internal Resistance (m?)

Charge Temperature Discharge Temperature

Storage Temperature

Short Circuit (A) (20°C / 68°F)

Self-Discharge (20°C / 68°F)

BENEFITS

ENHANCED RUNTIME

- High energy density
- Consistent voltage performance

EXTENDED SERVICE LIFE

- · Low self-discharge rates prolongs shelf life
- · 99% gas recombination extends life
- Long life superior to general purpose batteries

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

CERTIFIED QUALITY

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

12

6.5

1800

2-3% per month Min: -10°C (14°F) | Max: 50°C (122°F)

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

-20°C (-4°F) to 60°C (140°F) NOTE 3: Extra considerations must be given when designing systems for use at maximum temperatures.

- 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)

MECHANICAL SPECIFICATIONS

Industry Reference						
Length A (in/mm)	13.8 35					
Width B (in/mm)	6.6	167				
Height C (in/mm)	7	179				
Total Height D (in/mm)	7	179				
Weight (lbs/kgs)	51	23				
Terminal *	F11M6					
Technology	AGM, VRLA					

NOTE 1: Dimensions have a ±2 mm (0.08 in) tolerance. Weights may vary. NOTE 2: Refer to terminal guide on website for torque values













NOTE 4: Internal Resistance is approximate.

PERFORMANCE SPECIFICATIONS

Amp Hours (AH)										
1 HR	5 HR	10 HR	20 HR							
50	70	80	84							

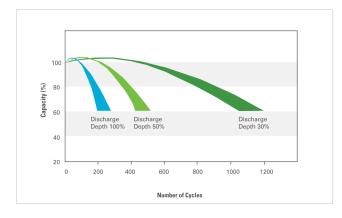
1HR @1.60VPC, 5HR @1.75VPC; 10 HR@ 1.80VPC; 20 HR @1.80VPC. All at 30°C/86°F

PERFORMANCE SPECIFICATIONS

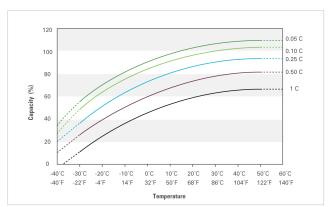
Discharge Constant Current (Amperes) @ 25°C / 77°F									Discharge Constant Power (Watts) @ 25°C / 77°F										
VPC/Time	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR	VPC/Time	5 MIN	10 MIN	15 MIN	30 MIN	1 HR	3 HR	5 HR	10 HR	20 HR
1.60 VPC	243.00	185.00	145.00	87.00	50.00	21.60	14.40	8.20	4.28	1.60 VPC	433.00	323.00	274.00	156.00	100.00	40.80	27.90		
1.65 VPC	230.00	177.00	139.00	83.50	48.40	21.10	14.20	8.15	4.27	1.65 VPC	411.00	311.00	260.00	154.00	97.80	37.90	27.40		
1.70 VPC	216.00	168.00	132.00	79.30	47.00	20.50	14.00	8.10	4.25	1.70 VPC	390.00	299.00	246.00	151.00	96.00	37.20	27.00		
1.75 VPC	202.00	158.00	124.00	74.60	45.60	20.00	13.80	8.05	4.23	1.75 VPC	368.00	287.00	232.00	149.00	94.10	36.50	26.40		
1.80 VPC	189.00	148.00	115.00	69.40	44.10	19.50	13.60	8.00	4.20	1.80 VPC	34.70	275.00	218.00	146.00	92.30	35.80	25.80		

15MIN @1.67 VPC; 1HR @1.60 VPC, 5HR @1.75 VPC; 10 HR@ 1.80 VPC; 20 HR @1.80 VPC. All at $30^{\circ}\text{C}/86^{\circ}\text{F}$

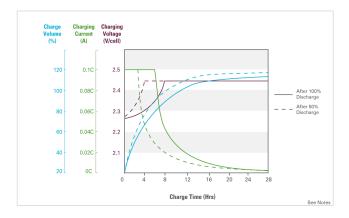
Cycle Life Characteristics



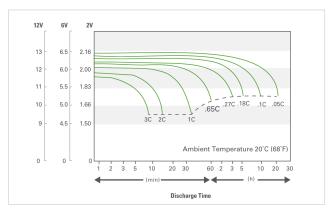
Temperature Effects on Capacity



Charge Characteristics



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.
- 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.
 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
- 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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