

Absorbant Glass Mat (AGM) technology for superior performance. Valve regulated, spill proof construction allows safe operation in any position. Approved for transport by air. D.O.T., I.A.T.A., F.A.A. and C.A.B. certified. U.L. recognized under file number MH 20567.

UB12180

Maintenance-Free

Specification

Nominal Voltage	12Volts		
Nominal Capacity	77°F (25°C)		
20-hr. (0.90 A)	18.0 Ah		
10-hr. (1.67 A)	16.7 Ah		
5-hr. (3.06 A)	15.3 Ah		
1-hr. (10.8 A)	10.8 Ah		
Approximate Weight	11.79 lbs (5.35 kgs)		
Internal Resistance (approx.)	15 mΩ		
Shelf Life (% of normal capacity at 68° F (20° C)			
3 Months	6 Months	12 Months	
91%	83%	64%	
Temperature Dependency of Capacity	(20 hour rate)		
104° F (40°C)	77° F (25°C)	32° F (0°C)	5° F (-15°C)
102%	100%	85%	65%
AGM Operational Temperature			
Charge	32°F to 104°F (0°C to 40°C)		
Discharge	5°F to 113°F (-15°C to 45°C)		
AGM Storage Temperature	5°F to 104°F (-15°C to 40°C)		
Container Material	ABS		



Due to continuous improvements to our products, product may vary slightly from depiction.

Charge Method (Constant Voltage)

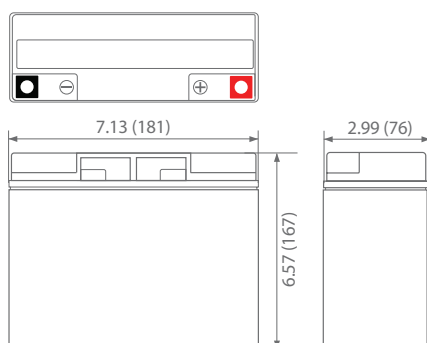
Cycle Use (Repeating Use)

Initial Current	5.4 A or smaller
Control Voltage	14.6 - 14.8 V

Float Use

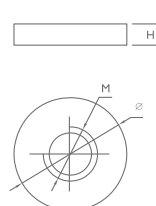
Control Voltage	13.6 - 13.8 V
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Physical Dimensions: in (mm)



L: 7.13 in (181 mm)
W: 2.99 in (76 mm)
H: 6.57 in (167 mm)
TH: 6.57 in (167 mm)
Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Terminals



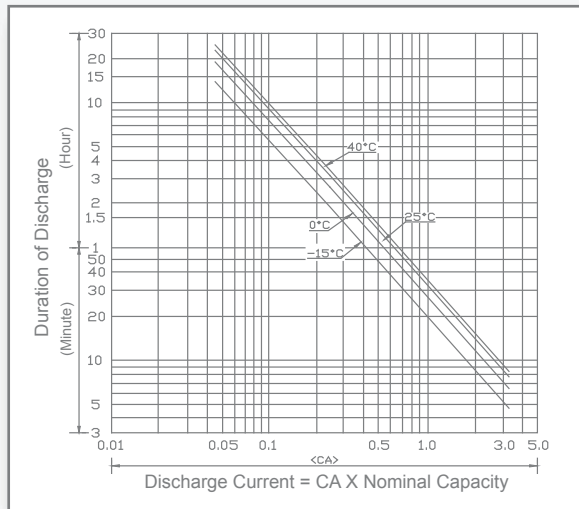
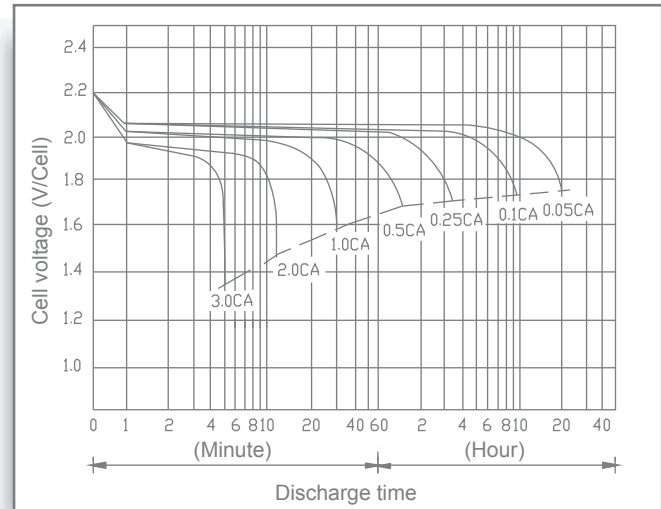
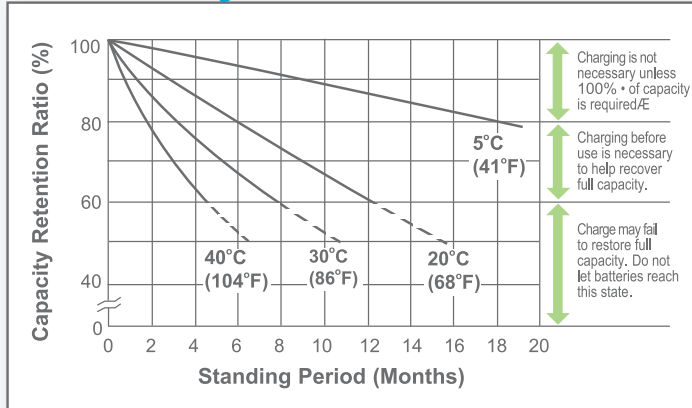
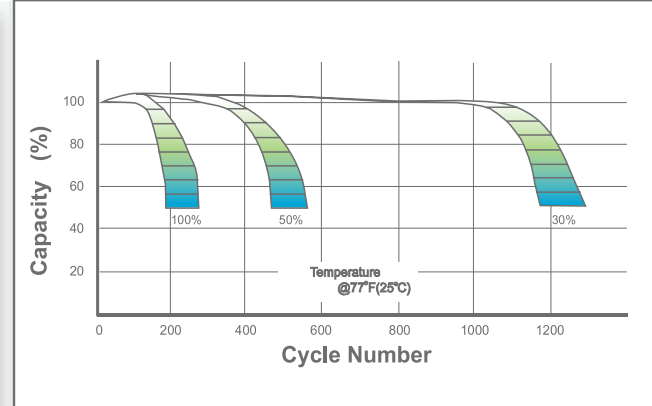
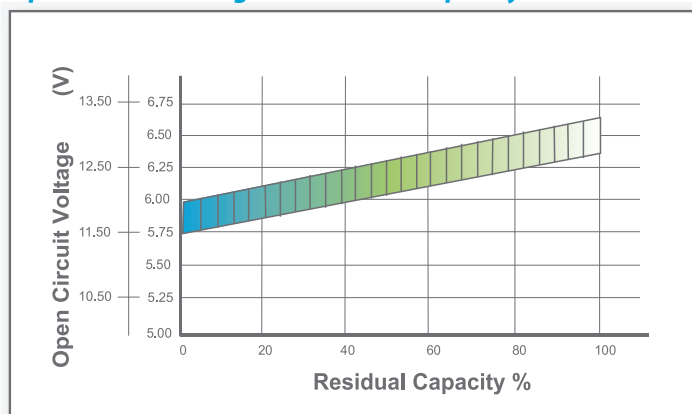
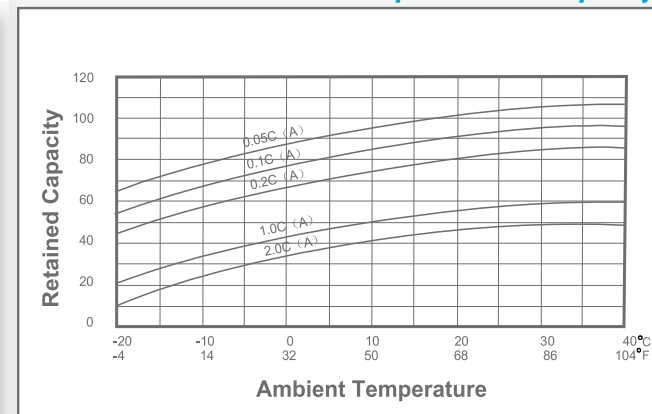
Dimension	M	Ø	H
Type	6.00 mm 0.24 in	16.0 mm 0.63 in	4.00 mm 0.16 in

Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	64.8	31.5	21.0	11.0	6.30	5.00	3.20	2.10	1.70	0.97
1.67V	59.4	30.0	20.2	10.8	6.25	4.95	3.18	2.05	1.67	0.96
1.70V	54.0	28.9	19.8	10.5	6.05	4.89	3.12	2.05	1.66	0.95
1.75V	53.0	28.0	18.3	10.3	5.98	4.70	3.05	2.03	1.65	0.93
1.80V	52.0	28.5	17.7	9.8	5.90	4.61	3.01	1.97	1.60	0.92

Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	730	368	225	124.5	76.00	55.00	38.00	26.00	20.00	11.30
1.67V	680	345	219	120.0	73.00	54.40	37.50	25.80	19.70	11.20
1.70V	630	336	217	117.0	72.50	52.40	36.85	25.60	19.40	11.10
1.75V	600	325	216	115.0	71.60	51.20	36.50	25.20	19.00	11.00
1.80V	588	314	215	110.5	70.00	50.50	35.40	24.80	18.50	10.80

Discharge Time vs. Discharge Current**Discharge Characteristics****Shelf Life & Storage****Cycle Life vs Depth of Discharge****Open Circuit Voltage vs Residual Capacity****Effect of Temperature on Capacity****Charge Current & Final Discharge Voltage**

Application	Charge Voltage(V/Cell)			Max.Charge Current
	Temperature	Set Point	Allowable Range	
Cycle Use	25°C(77°F)	2.45	2.40~2.47	0.30C
Standby	25°C(77°F)	2.30	2.27~2.30	

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C