

UPG Sealed Lead-Acid Battery

STAY POWERED®

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.

UPG No. 46081

UB12550

Maintenance-Free

Specification

Nominal Voltage		12 volts	
Nominal Capacity		77° F (25° C)	
20-hr. (2.75 A)		55.0 Ah	
10-hr. (5.12 A)		51.2 Ah	
5-hr. (9.35 A)		46.8 Ah	
1-hr. (33.0 A)		33.0 Ah	
Approximate Weight		37.47 lbs (17.0 kgs)	
Internal Resistance (approx.)		8.3 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)	



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

Charge Method (Constant Voltage)

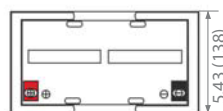
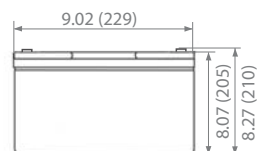
Cycle Use (Repeating Use)

Initial Current	16.5 A or smaller
Control Voltage	14.6 - 14.8 V

Float Use

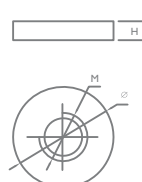
Control Voltage	13.6 - 13.8 V
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Physical Dimensions: in (mm)



L: 9.02 in (229 mm)
W: 5.43 in (138 mm)
H: 8.07 in (205 mm)
TH: 8.27 in (210 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Terminals



Dimension Type	M	Ø	H
I4	6.00 mm 0.24 in	15.0 mm 0.59 in	4.00 mm 0.16 in

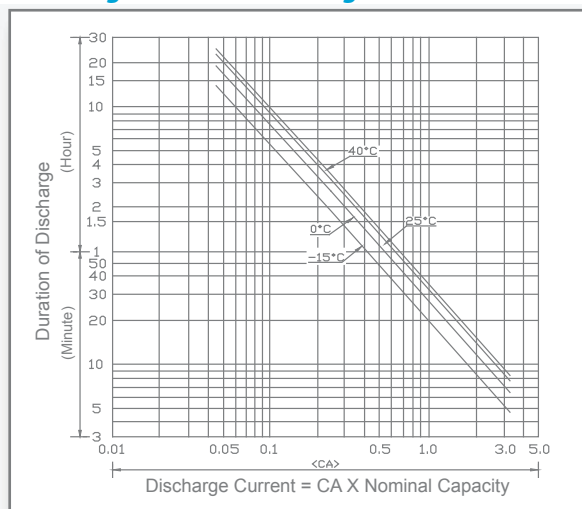
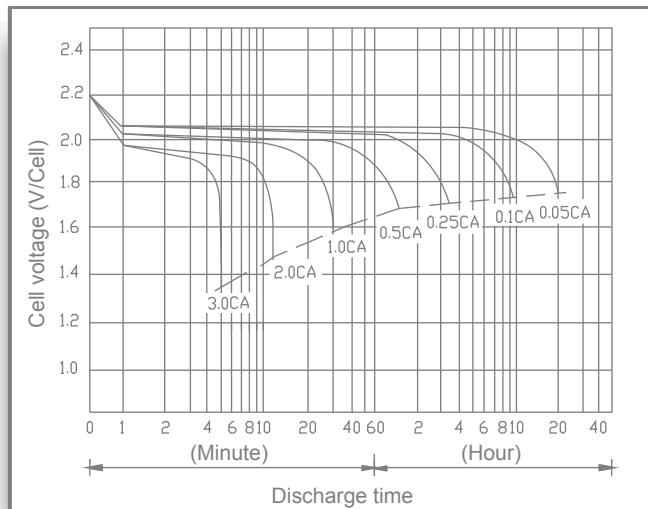
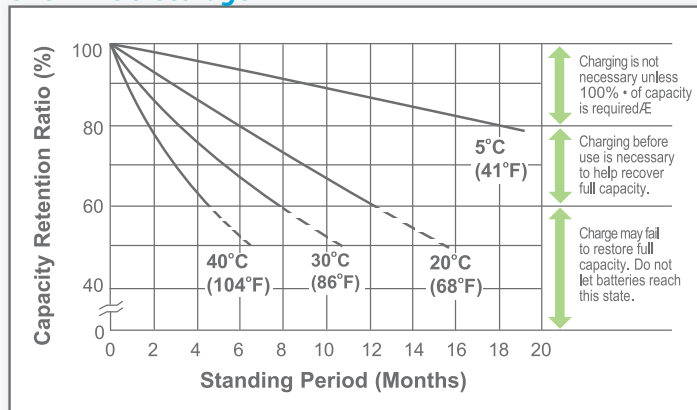
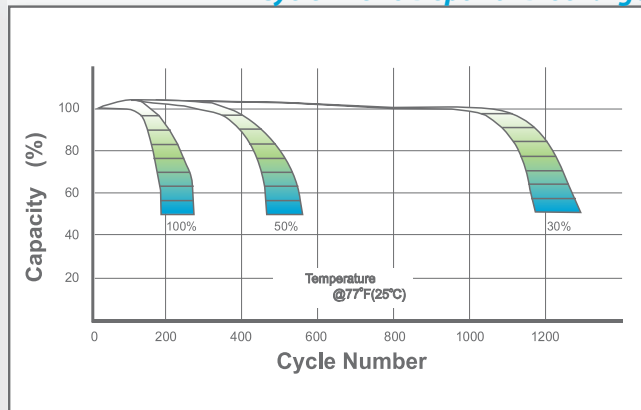
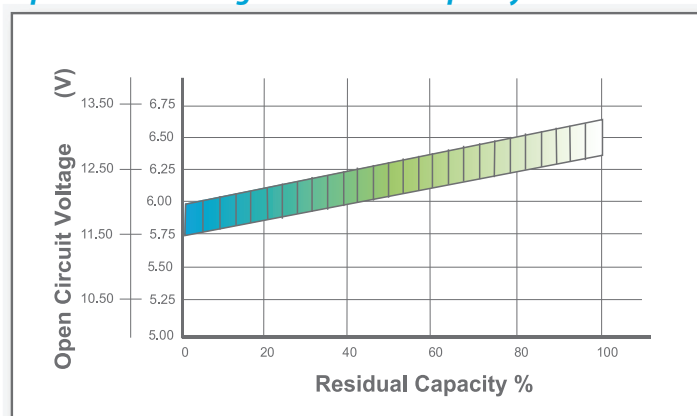
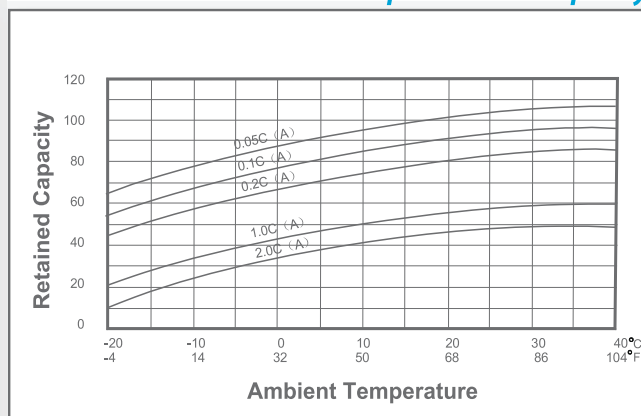
Torque: 88.5 in/lbs

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	231.0	103.0	61.0	36.0	20.6	16.00	10.70	6.82	5.79	3.00
1.67V	228.0	94.3	56.3	32.4	20.0	15.30	9.98	6.75	5.73	2.98
1.70V	219.0	88.7	53.3	31.3	19.4	14.70	9.71	6.65	5.61	2.94
1.75V	204.0	83.1	51.3	30.4	18.7	14.30	9.46	6.56	5.56	2.89
1.80V	176.0	76.0	49.4	29.0	18.0	14.10	9.23	6.45	5.50	2.85

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	2600.0	1250.0	654.0	400.0	230.0	185.0	125.0	79.80	70.50	35.50
1.67V	2550.0	1230.0	630.0	387.2	225.0	180.0	120.8	79.20	68.80	35.30
1.70V	2480.0	1200.0	600.0	368.2	223.0	174.4	117.5	78.00	67.60	34.85
1.75V	2400.0	1180.0	580.0	355.0	217.0	170.0	114.4	77.40	66.00	34.50
1.80V	2230.0	1120.0	565.0	344.2	208.0	165.2	110.0	76.20	65.40	34.00

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**

UPG is ISO 9001 Certified.

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