

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. 46082

UB12750

Maintenance-Free

Specification

Nominal Voltage	12 Volts
Nominal Capacity	77°F (25°C)
20-hr. (3.75 A)	75 Ah
10-hr. (6.98 A)	69.8 Ah
5-hr. (12.75 A)	63.8 Ah
1-hr. (45.00 A)	45 Ah

Approximate Weight 52.80 lbs (24.00 kgs)

Internal Resistance (approx.) 7 mΩ

Shelf Life (% of normal capacity at 77° F (25° C))

3 Months	6 Months	12 Months
91%	82%	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)



Charge Method (Constant Voltage)

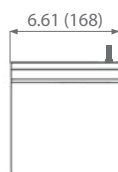
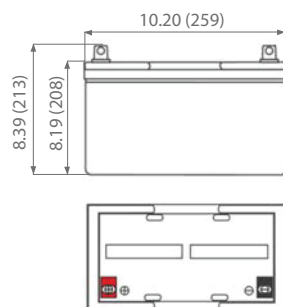
Cycle Use (Repeating Use)

Initial Current	22.5 A or smaller
Control Voltage	14.6 - 14.8 V

Float Use

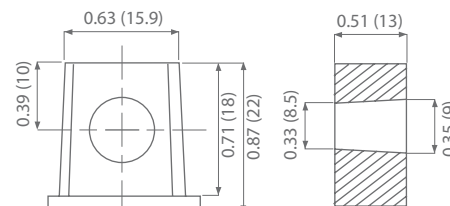
Control Voltage	13.6 - 13.8 V
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Physical Dimensions: in (mm)



L: 10.20 in (259 mm)
W: 6.61 in (168 mm)
H: 8.19 in (208 mm)
TH: 8.39 in (213 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Terminals



F14

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	304.0	150.0	81.0	45.8	28.2	20.4	14.1	9.30	7.89	4.09
1.67V	281.0	141.0	76.7	44.2	27.2	19.6	13.6	9.21	7.81	4.07
1.70V	272.0	124.0	72.7	42.7	26.5	19.3	13.2	9.07	7.65	4.01
1.75V	245.0	109.0	69.9	41.4	25.5	18.4	12.9	8.94	7.58	3.94
1.80V	214.0	104.0	67.3	39.6	24.6	17.4	12.6	8.79	7.50	3.90

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	3221.0	1723.0	973.0	554.0	320.4	233.0	159.0	110.0	93.00	48.30
1.67V	3128.0	1678.0	961.0	543.0	312.0	230.0	157.0	108.0	92.40	48.12
1.70V	2948.0	1645.0	928.0	527.0	304.8	226.0	156.0	106.8	90.60	47.52
1.75V	2573.0	1438.0	892.0	512.0	294.0	221.0	150.6	105.6	89.40	46.68
1.80V	2440.0	1345.4	833.0	485.0	284.4	215.0	147.6	103.8	88.80	46.26

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UPG is ISO 9001 Certified.

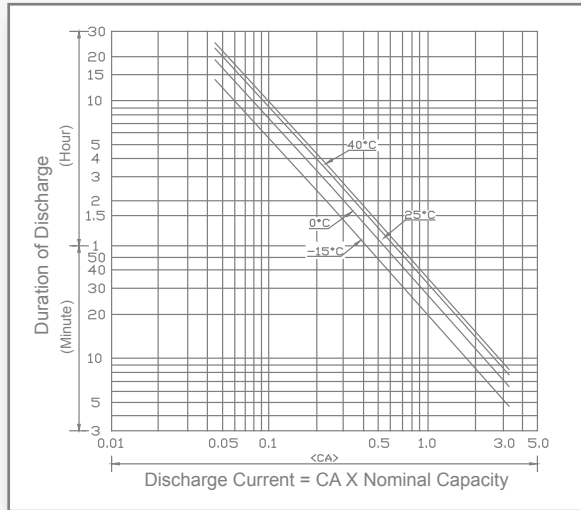
Made in Vietnam

All specifications are subject to change.

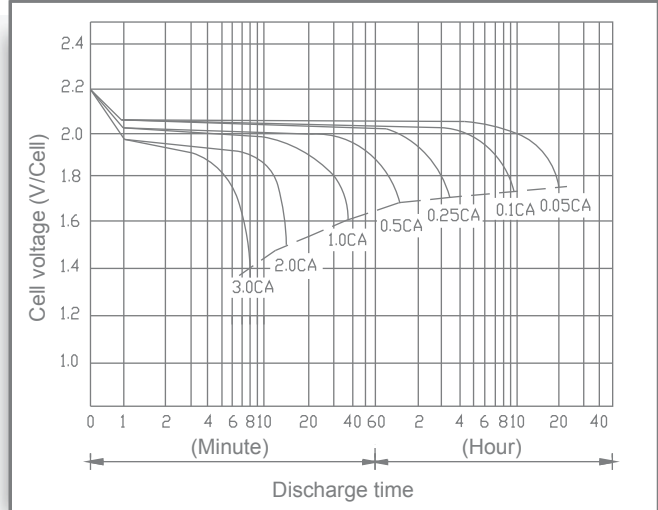
488 S. Royal Lane | Carrollton, Texas 75006 | P 469.892.1122 | T 866.892.1122 | F 469.892.1123 | sales@upgi.com

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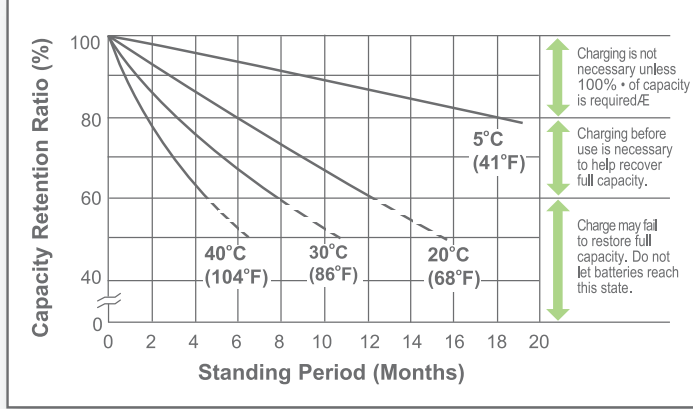
Discharge Time vs. Discharge Current



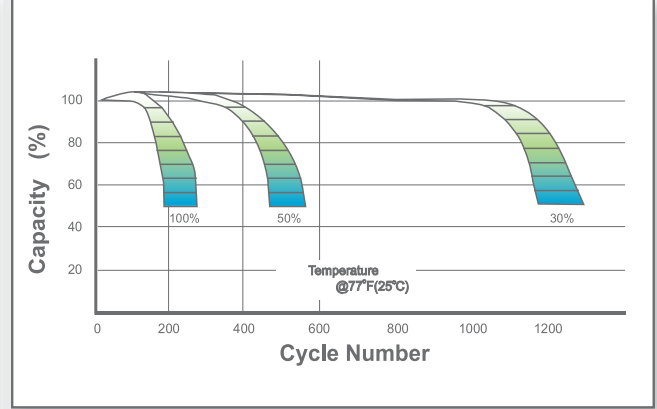
Discharge Characteristics



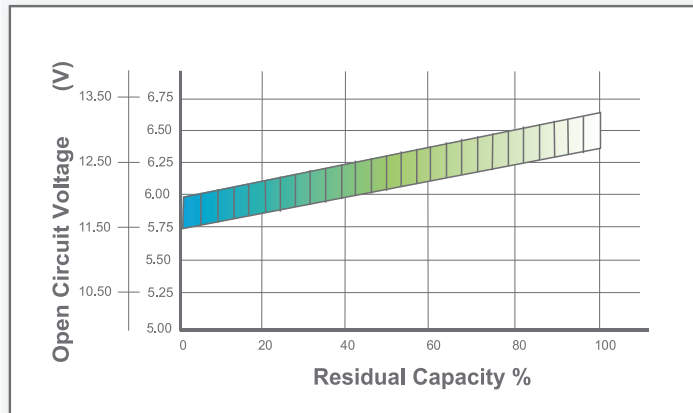
Shelf Life & Storage



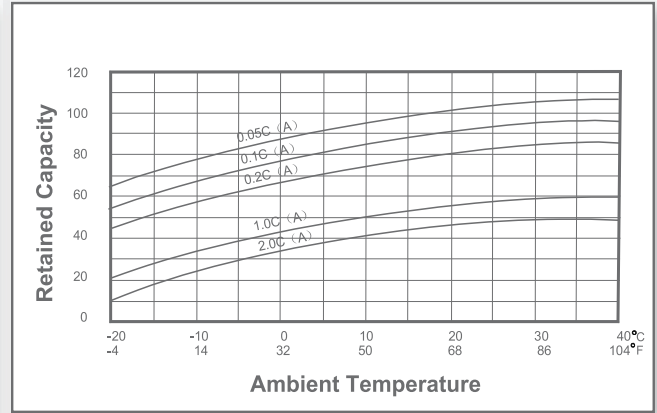
Cycle Life vs Depth of Discharge



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℃(77℉)	2.45	2.40~2.47	0.30C
Standby	25℃(77℉)	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