

Maintenance-Free

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.

# Specification

Nominal Voltage			12 volts		
<b>Nominal Capacity</b>			77° F (25° C)		
20-hr. (0.45A)			9.00 Ah		
10-hr. (0.83A)			8.30 Ah		
5-hr. (1.54A)			7.69 Ah		
1-hr. (5.40A)			5.40 Ah		
<b>Approximate Weig</b>	ıht		5.17 lbs (2.35 kgs)		
Internal Resistance	e (approx.)		19mΩ		
Shelf Life (% of nor	mal capacity at	68° F (20° C)			
3 Months	6 Mor	nths	12 Months		
91%	83%		64%		
<b>Temperature Dep</b>	endancy of Cap	acity	(20 hour rate)		
104° F (40°C)	77° F (25°C)	32°F (0°C)	5°F (-15°C)		
102%	100%	85%	65%		
<b>AGM Operational</b>	Temperature				
Charge		32°F to 104	°F (0°C to 40°C)		
Discharge		5°F to 113°F	- (-15°C to 45°C)		
<b>AGM Storage Tem</b>	perature	5°F to 104°F	(-15°C to 40°C)		

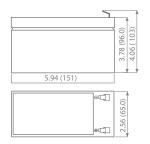


Due to continuous improvements to our products, product may vary slightly from depiction.

#### Charge Method (Constant Voltage)

charge method (constant vo	rtage)
Cycle Use (Repeating Use)	
Initial Current	2.7 A or smaller
Control Voltage	14.6 - 14.8 V
Float Use	
Control Voltage	13.6 - 13.8 V

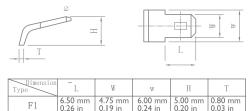
#### Physical Dimensions: in (mm)



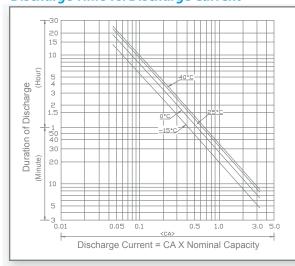
**L:** 5.94 in (151 mm) **W:** 2.56 in (65.0 mm) **H:** 3.78 in (96.0 mm) **TH:** 4.06 in (103 mm)

Tolerances are +/-0.04 in. (+/-1mm) and +/-0.08 in. (+/-2mm) for height dimensions. All data subject to change without notice.

#### **Terminals**

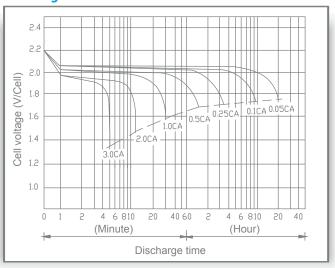


#### **Discharge Time vs. Discharge Current**



**UPG** is ISO Certified

## **Discharge Characteristics**



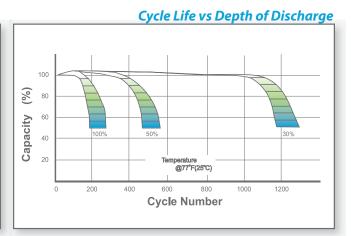
www.upgi.com

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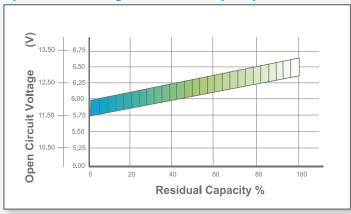




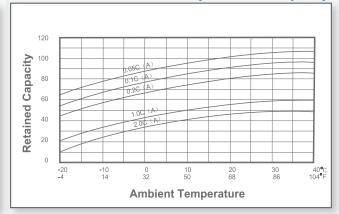
Shelf Life & Storage Capacity Retention Ratio (%) Charging is not necessary unless 100% • of capacity is requiredÆ Charging before use is necessary to help recover full capacity. 5°C (41°F) Charge may fail to restore full capacity. Do not let batteries reach this state. 30°C 40°C 20°C 40 (104°F) (86°F) (68°F) 0 6 8 10 12 14 16 18 20 Standing Period (Months)



## **Open Circuit Voltage vs Residual Capacity**



## **Effect of Temperature on Capacity**



## **Charge Current & Final Discharge Voltage**

Application	Charge Voltage(V/Cell)			May Chargo Current
	Temperature	Set Point	Allowable Range	Max.Charge Current
Cycle Use	25°C(77°F)	2.45	2.40~2.47	0.30C
Standby	<b>25</b> °ℂ( <b>77</b> °F)	2.28	2.27~2.30	0.300

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