

# UPG Sealed Lead-Acid Battery

UPG No. 46095

## UB1270

**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.

Maintenance-Free

### Specification

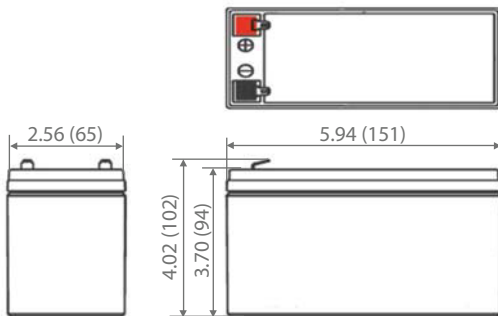
<b>Nominal Voltage</b>	12 volts		
<b>Nominal Capacity</b>	77° F (25° C)		
20-hr. (0.35 A)	7.00 Ah		
10-hr. (0.65 A)	6.51 Ah		
5-hr. (1.2 A)	5.95 Ah		
1-hr. (4.20 A)	4.20 Ah		
<b>Approximate Weight</b>	4.52 lbs (2.05 kgs)		
<b>Internal Resistance (approx.)</b>	30mΩ		
<b>Shelf Life (% of normal capacity at 77° F (25° C))</b>			
3 Months	6 Months	12 Months	
91%	82%	64%	
<b>Temperature Dependency of Capacity (20 hour rate)</b>			
104° F (40°C)	77° F (25°C)	32° F (0°C)	5° F (-15°C)
102%	100%	85%	65%
<b>AGM Operational Temperature</b>			
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 Temperature</b>	5°F to 104°F (-15°C to 40°C)		



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

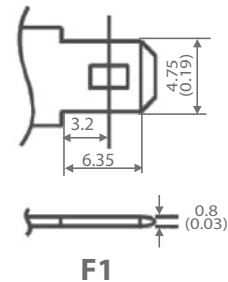
<b>Charge Method (Constant Voltage)</b>	
Initial Current	2.1 A or smaller
Control Voltage	14.6 - 14.8 V
<b>Cycle Use (Repeating Use)</b>	
Initial Current	2.1 A or smaller
Control Voltage	14.6 - 14.8 V
<b>Float Use</b>	
Control Voltage	13.6 - 13.8 V

### Physical Dimensions: in (mm)



**L:** 5.94 in (151 mm)  
**W:** 2.56 in (65 mm)  
**H:** 3.70 in (94 mm)  
**TH:** 4.02 in (102 mm)  
 Tolerances are +/- 0.04 in. (+/- 1 mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

### Terminals



### 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	27.6	12.8	7.83	4.20	2.55	2.18	1.29	0.79	0.70	0.39
1.67V	25.6	12.4	7.50	4.16	2.50	1.85	1.26	0.78	0.70	0.37
1.70V	23.7	12.0	6.80	4.00	2.45	1.75	1.23	0.78	0.67	0.36
1.75V	23.4	11.7	6.48	3.92	2.42	1.70	1.19	0.77	0.67	0.36
1.80V	20.7	10.6	6.00	3.65	2.36	1.67	1.18	0.76	0.66	0.35

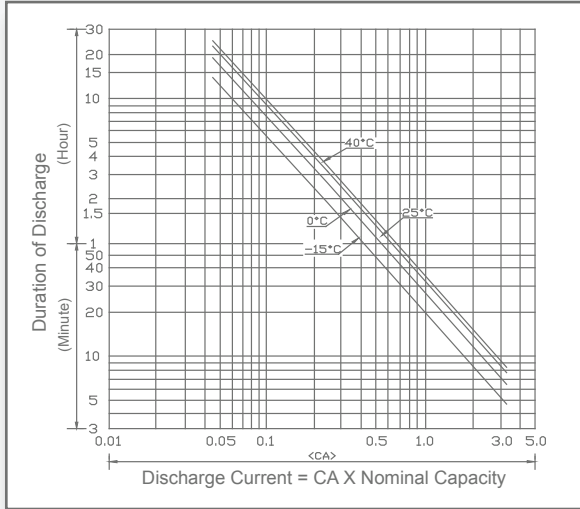
### Constant Power Discharge Characteristics Unit: W (25 C, 77 F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	302	150	87	49.1	24.4	19.1	13.0	9.00	7.24	3.81
1.67V	291	147	86	48.7	25.2	19.0	13.0	8.94	7.24	3.81
1.70V	280	146	85	48.0	25.0	18.9	12.9	8.81	7.22	3.80
1.75V	264	141	83	47.2	24.4	18.7	12.9	8.71	7.18	3.79
1.80V	228	135	80	45.8	23.6	18.4	12.7	8.57	7.07	3.72

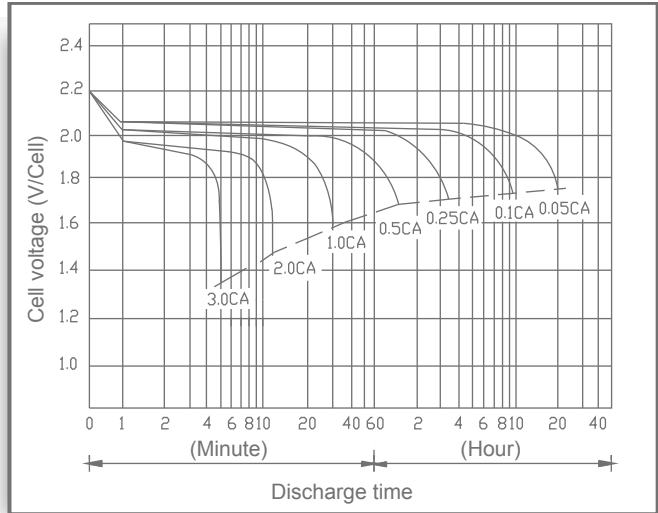
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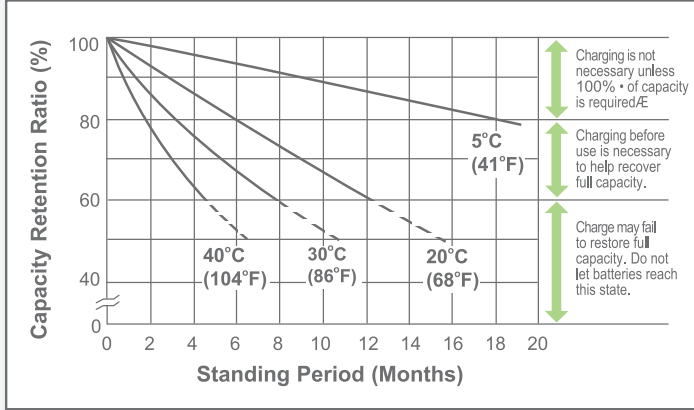
## Discharge Time vs. Discharge Current



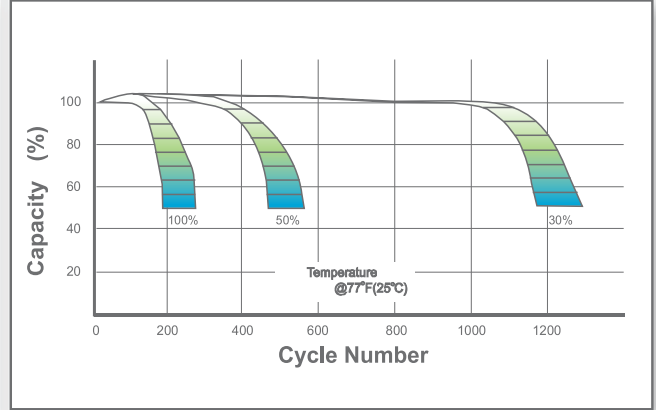
## Discharge Characteristics



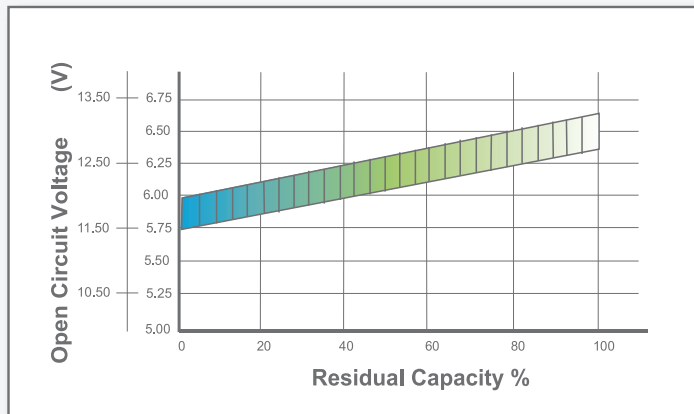
## Shelf Life & Storage



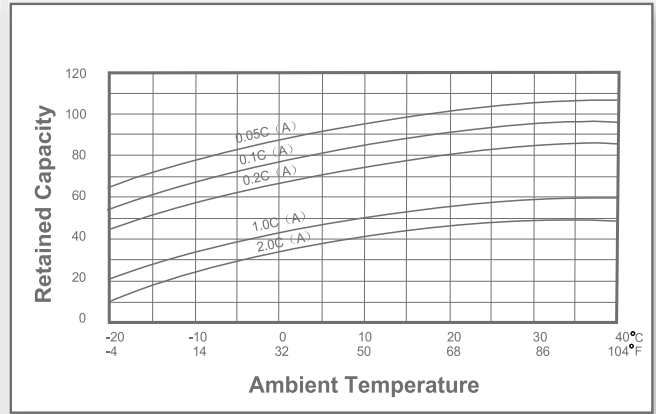
## Cycle Life vs. Depth of Discharge



## Open Circuit Voltage vs. Residual Capacity



## Effect of Temperature on Capacity



## Charge Current & Final Discharge Voltage

Application	Charge Voltage(V/Cell)			Max.Charge Current	Final Discharge Voltage V/Cell	Discharge Current(A)		
	Temperature	Set Point	Allowable Range					
Cycle Use	25°C(77°F)	2.45	2.43~2.47	0.30C	1.75	1.70		
Standby	25°C(77°F)	2.28	2.27~2.30		1.60	1.30		
					0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C



UPG is ISO 9001 Certified.

Let UPG Power Your Life.

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