



# Sealed Lead-Acid Battery

UPG No. 46021

# UB1280

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

<b>Nominal Voltage</b>	12 Volts		
<b>Nominal Capacity</b>	77°F (25°C)		
20-hr. (0.40 A)	8.00 Ah		
10-hr. (0.74 A)	7.44 Ah		
5-hr. (1.30 A)	6.80 Ah		
1-hr. (4.80 A)	4.80 Ah		
<b>Approximate Weight</b>	4.80 lbs (2.18 kgs)		
<b>Internal Resistance (approx.)</b>	28 mΩ		
<b>Shelf Life (% of normal capacity at 68° F (20° C))</b>			
3 Months	6 Months	12 Months	
91%	83%	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)		



## Charge Method (Constant Voltage)

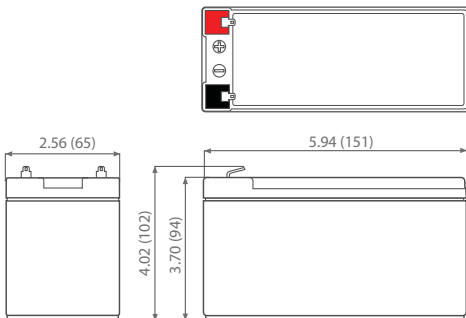
### Cycle Use (Repeating Use)

Initial Current	2.4 A or smaller
Control Voltage	14.6 - 14.8 V

### Float Use

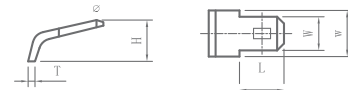
Control Voltage	13.6 - 13.8 V
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## Physical Dimensions: in (mm)



**L:** 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. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

## Terminals



Dimension Type	L	W	w	H	T
F1	6.50 mm 0.26 in	4.75 mm 0.19 in	6.00 mm 0.24 in	5.00 mm 0.20 in	0.80 mm 0.03 in

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	10HR	20HR
1.60V	30.20	17.2	15.1	8.30	5.10	2.86	2.20	1.32	0.70	0.37
1.67V	27.40	16.4	14.3	8.20	4.90	2.75	2.15	1.28	0.70	0.37
1.70V	24.80	15.2	13.3	8.15	4.84	2.71	2.09	1.26	0.69	0.36
1.75V	22.60	14.6	12.7	7.85	4.70	2.64	2.02	1.22	0.68	0.36
1.80V	20.00	13.5	11.5	7.55	4.42	2.55	1.97	1.20	0.67	0.35

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	10HR	20HR
1.60V	305	175	158	95	56.0	33.1	21.1	13.6	9.40	3.99
1.67V	300	164	156	92	55.0	32.5	20.5	13.6	8.35	3.99
1.70V	282	156	147	91	54.5	32.4	20.4	13.5	8.25	3.98
1.75V	260	150	143	87	54.0	31.5	20.1	13.5	8.11	3.97
1.80V	234	144	132	84	53.0	31.1	19.2	13.3	8.02	3.90

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Made in Vietnam

All specifications are subject to change.

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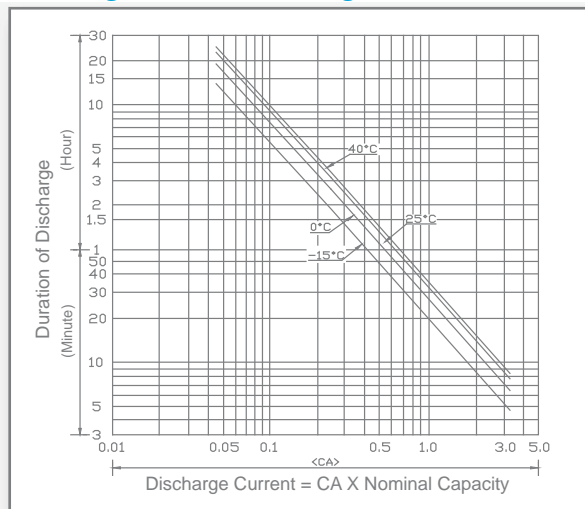
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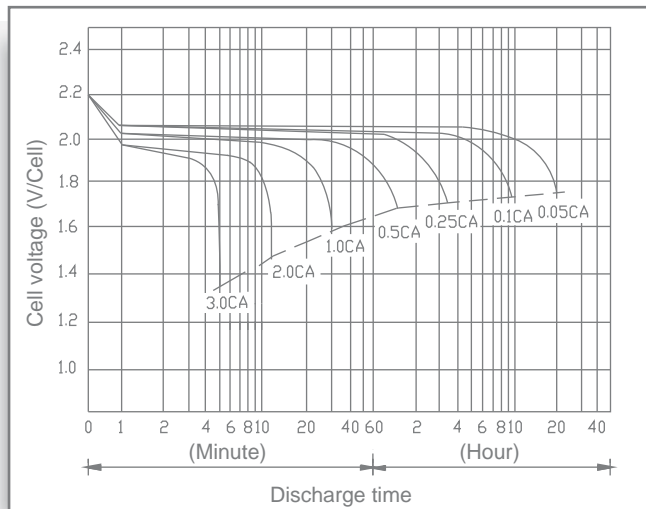
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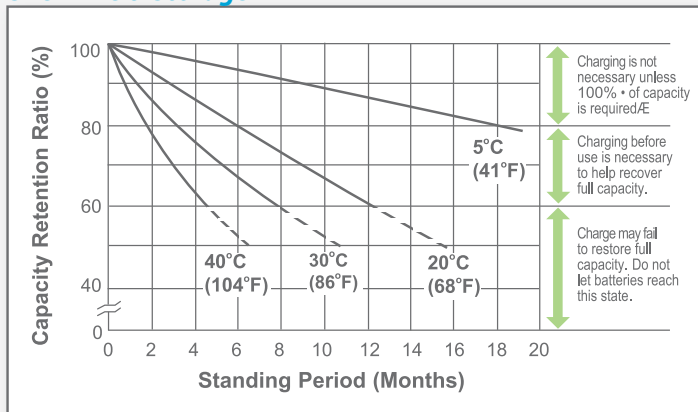
## Discharge Time vs. Discharge Current



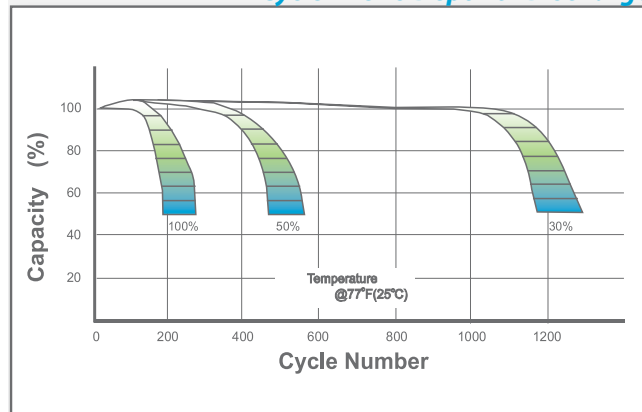
## Discharge Characteristics



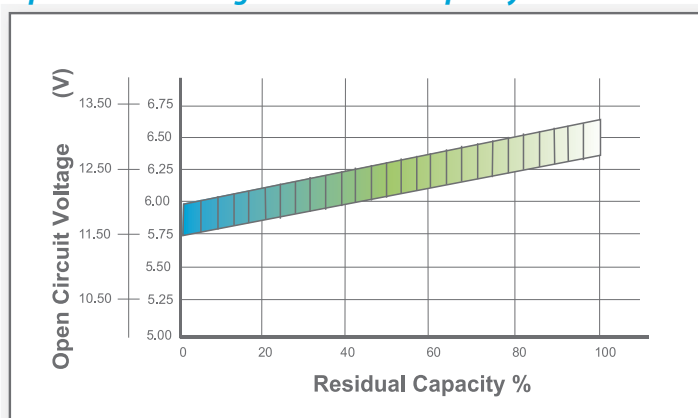
## Shelf Life & Storage



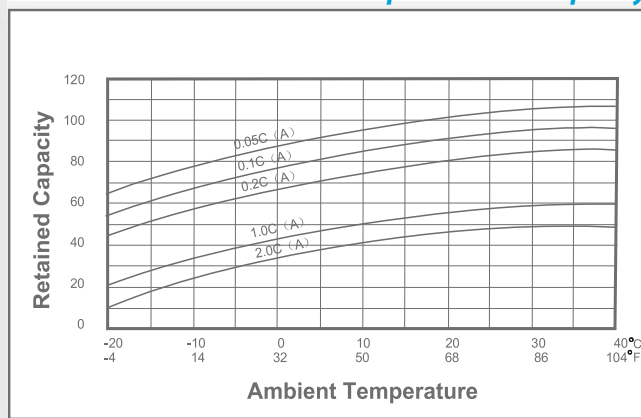
## Cycle Life vs Depth of Discharge



## 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	2.40-2.47	0.30C	1.75	1.70		
Standby	25°C(77°F)	2.30	2.27-2.30		1.60	1.30		
					0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C



Let UPG Power Your Life.

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