

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. 46043

UB12120

Maintenance-Free

Specification

Nominal Voltage	12 Volts		
Nominal Capacity	77°F (25°C)		
20-hr. (0.60 A)	12.0 Ah		
10-hr. (1.16 A)	11.2 Ah		
5-hr. (2.00 A)	10.2 Ah		
1-hr. (7.20 A)	7.20 Ah		
Approximate Weight	8.20 lbs (3.72 kgs)		
Internal Resistance (approx.)	25 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)		



Charge Method (Constant Voltage)

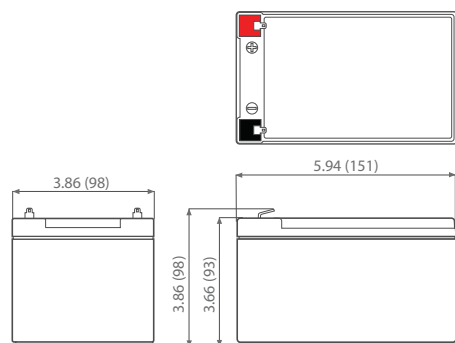
Cycle Use (Repeating Use)

Initial Current	3.6 A or smaller
Control Voltage	14.6 - 14.8 V

Float Use

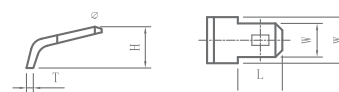
Control Voltage	13.6 - 13.8 V
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Physical Dimensions: in (mm)



L: 5.94 in (151 mm)
W: 3.86 in (98 mm)
H: 3.66 in (93 mm)
TH: 3.86 in (98 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	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	50.6	24.5	13.40	8.74	4.90	3.35	2.21	1.38	1.22	0.67
1.67V	49.1	23.8	12.90	8.68	4.85	3.17	2.16	1.38	1.20	0.66
1.70V	47.7	23.5	11.70	8.52	4.80	3.00	2.11	1.37	1.16	0.64
1.75V	44.5	22.4	11.10	8.40	4.74	2.93	2.05	1.36	1.14	0.61
1.80V	41.4	21.6	10.30	6.26	4.70	2.86	2.02	1.36	1.13	0.60

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	552.0	270.0	160.0	105.0	55.0	38.5	24.7	15.4	15.0	8.02
1.67V	536.0	267.0	159.0	104.0	54.7	37.6	24.7	15.4	14.9	8.02
1.70V	520.0	255.0	154.0	103.0	54.2	37.2	24.6	15.3	14.8	7.90
1.75V	485.0	248.0	151.1	100.0	54.3	36.3	24.4	15.2	14.2	7.90
1.80V	451.0	246.0	145.0	98.0	53.8	35.2	24.1	15.0	14.1	7.83

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UPG is ISO 9001 Certified.

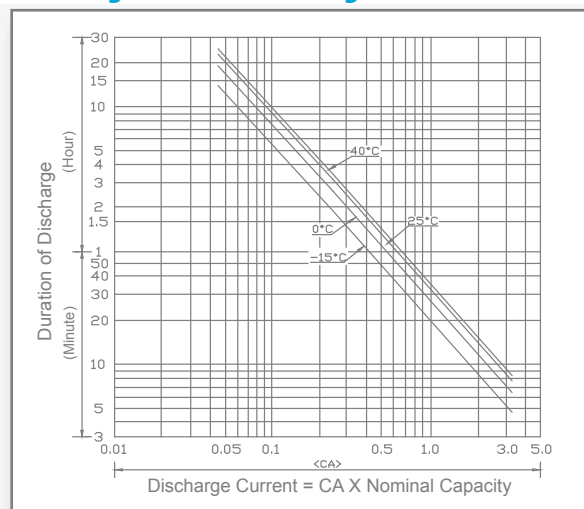
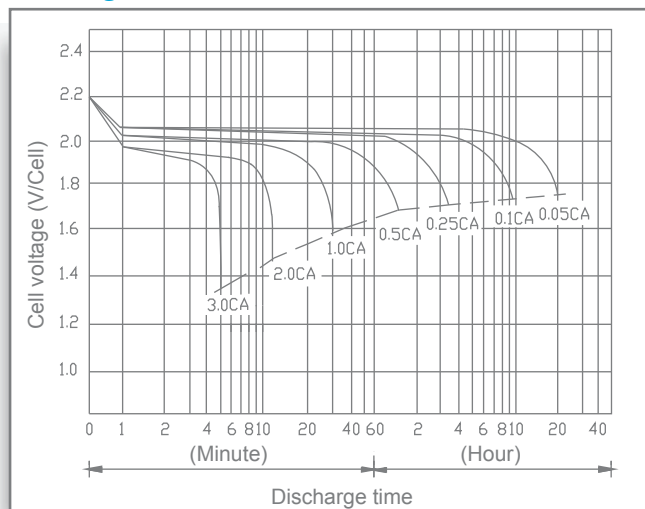
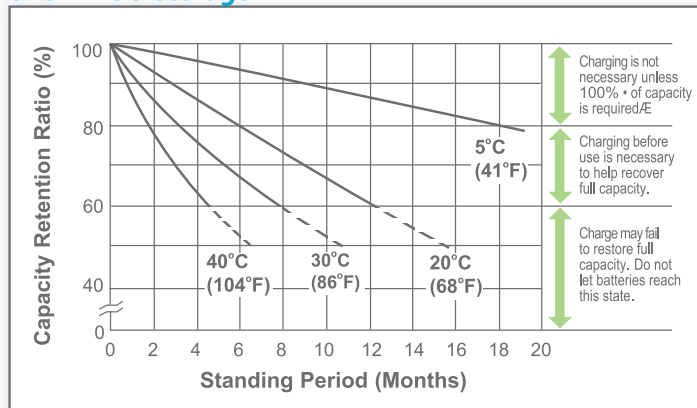
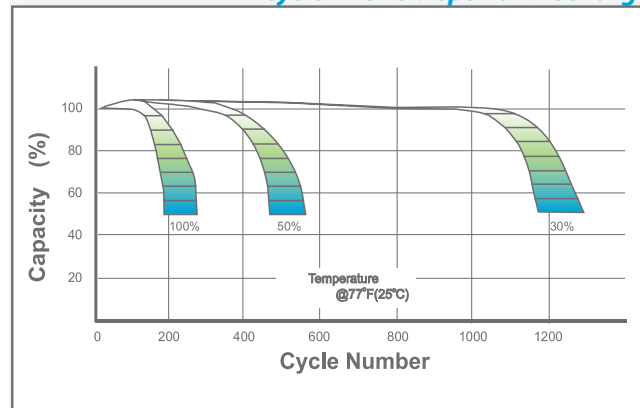
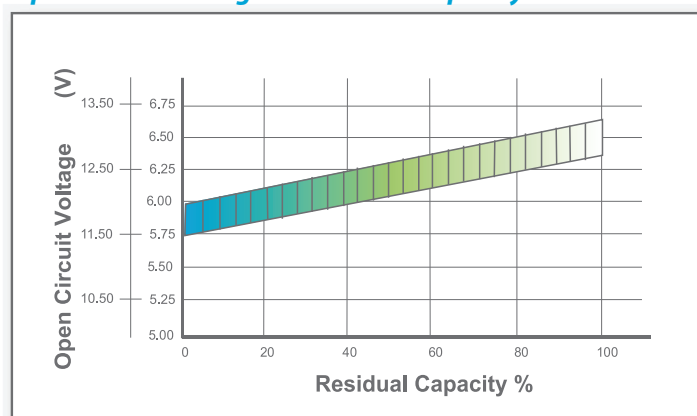
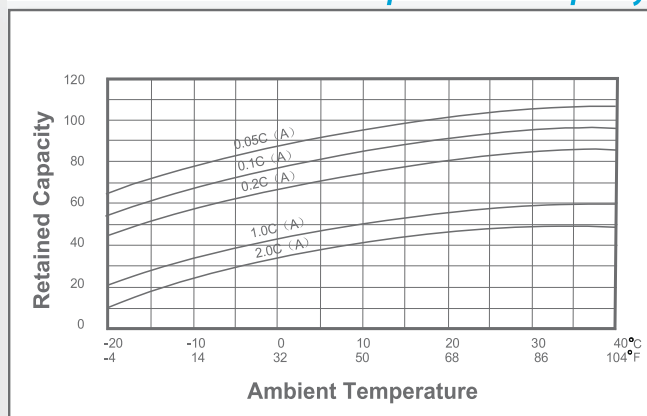
Made in Vietnam

All specifications are subject to change.

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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°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