

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. 40560

UB6420

Maintenance-Free

Specification

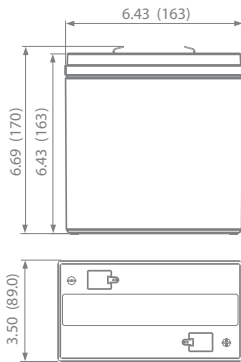
Nominal Voltage	6 volts		
Nominal Capacity	77° F (25° C)		
20-hr. (2.10A)	42.0 Ah		
10-hr. (3.90A)	39.0 Ah		
5-hr. (7.14A)	35.7 Ah		
1-hr. (25.0A)	25.0 Ah		
Approximate Weight	13.2 lbs (5.98 kgs)		
Internal Resistance (approx.)	6mΩ		
Shelf Life (% of normal capacity at 68° F (20° C))			
3 Months	6 Months	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)		



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

Charge Method (Constant Voltage)		
Cycle Use (Repeating Use)		
Initial Current	12 A or smaller	
Control Voltage	7.3 - 7.4 V	
Float Use		
Control Voltage	6.8 - 6.9 V	

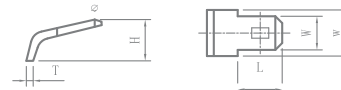
Physical Dimensions: in (mm)



L: 6.43 in (163 mm)
W: 3.50 in (89.0 mm)
H: 6.43 in (163 mm)
TH: 6.69 in (170 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
F2	7.80 mm 0.31 in	6.35 mm 0.25 in	7.80 mm 0.31 in	6.00 mm 0.24 in	0.80 mm 0.03 in

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

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	3HR	5HR	10HR	20HR
1.60V	140	96.0	70.0	42.0	25.7	10.6	7.44	4.24	2.16
1.67V	126	87.6	68.0	40.8	25.7	10.6	7.38	4.18	2.15
1.70V	120	84.4	65.6	40.0	25.6	10.6	7.38	4.15	2.15
1.75V	106	78.0	62.0	39.2	25.4	10.5	7.32	4.07	2.14
1.80V	96.0	72.4	59.2	38.0	25.0	10.5	7.26	4.00	2.07
1.85V	72.8	59.6	51.2	35.0	24.8	10.5	7.20	3.93	1.94

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ISO 9001

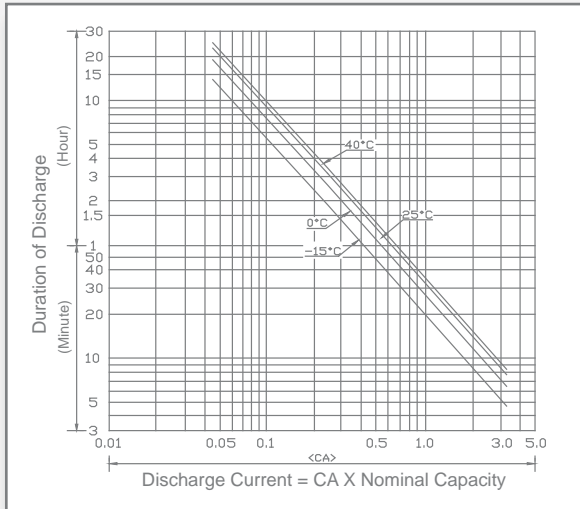
All specifications are subject to change without notice.

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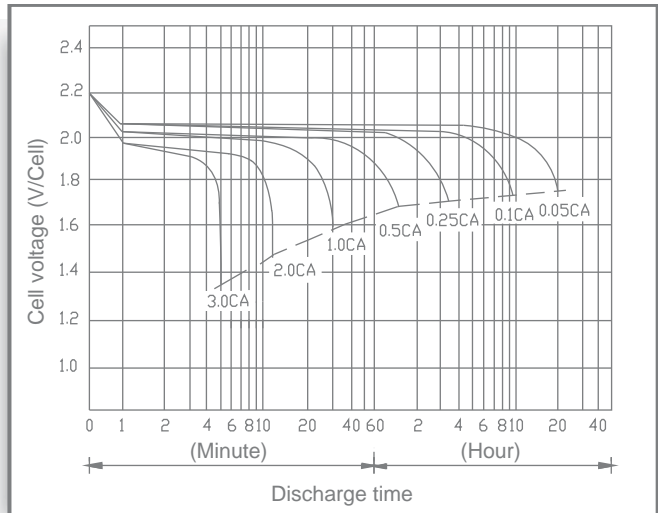
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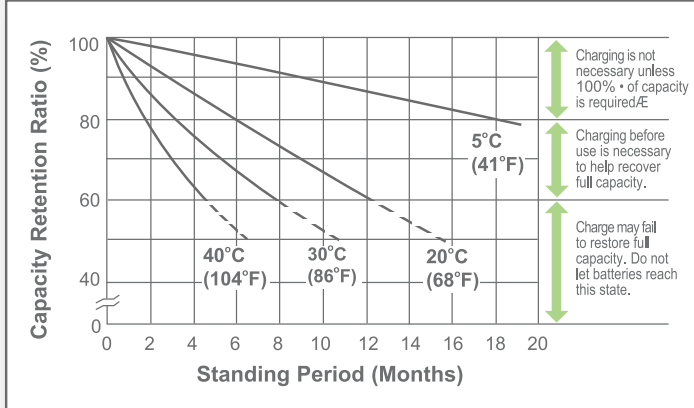
Discharge Time vs. Discharge Current



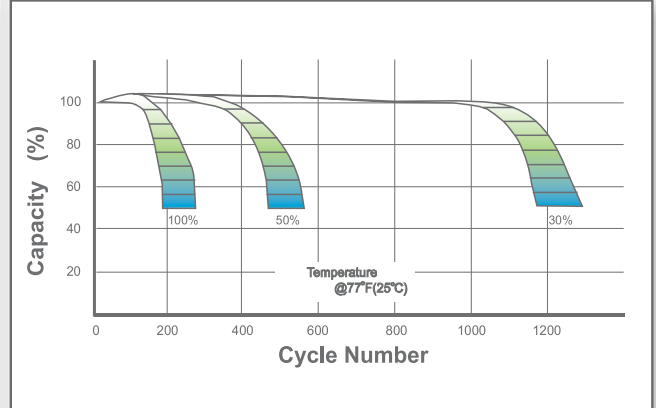
Discharge Characteristics



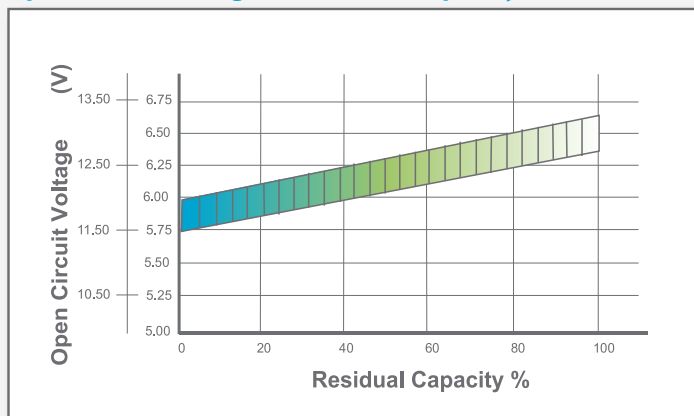
Shelf Life & Storage



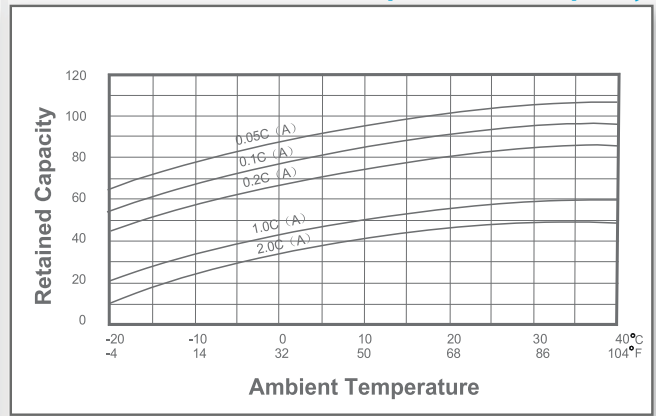
Cycle Life vs. Depth of Discharge



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	2.43-2.47	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