

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. 40836

UB1223A CAM

Maintenance-Free

Specification

Nominal Voltage		12 volts	
Nominal Capacity		77° F (25° C)	
20-hr. (115 mA)		2.3 Ah	
10-hr. (214 mA)		2.14 Ah	
5-hr. (390 mA)		1.95 Ah	
1-hr. (1.38 mA)		1.38 Ah	
Approximate Weight		1.71 lbs (0.78 kg)	
Internal Resistance (approx.)		100mΩ	
Shelf Life (% of normal capacity at 68° F (20° C))			
3 Months	6 Months	12 Months	
91%	82%	64%	
Temperature Dependency of Capacity		(20 hour rate)	
104° F	77° F	32° F	5° F
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)

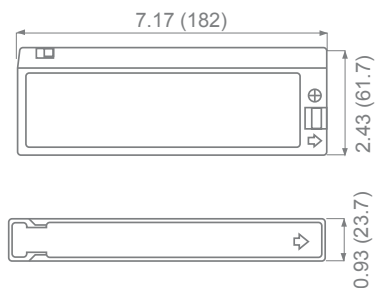
Cycle Use (Repeating Use)

Initial Current	0.7 A or smaller
Control Voltage	14.6-14.8 V

Float Use

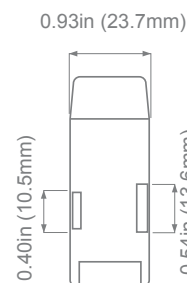
Control Voltage	13.6-13.8 V
-----------------	-------------

Physical Dimensions: in (mm)

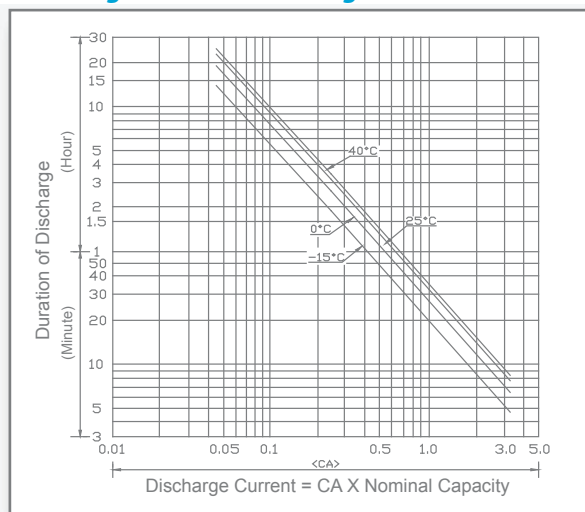


L: 7.17 in (182 mm)
W: 0.93 in (23.7 mm)
H: 2.43 in (61.7 mm)
TH: 2.43 in (61.7 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

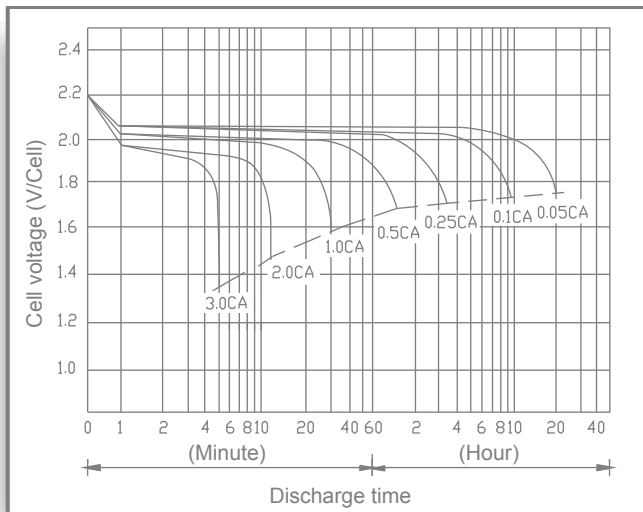
Terminals



Discharge Time vs. Discharge Current



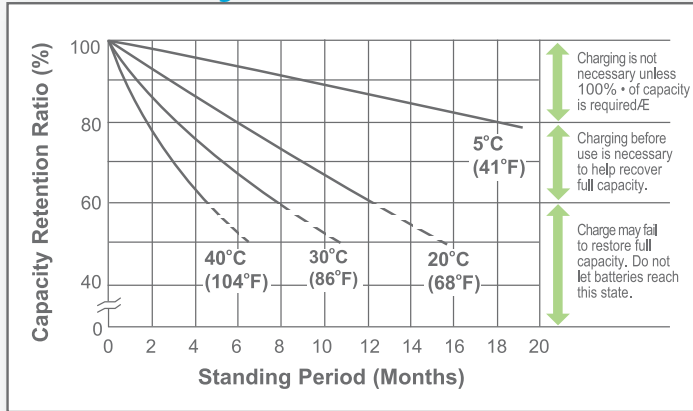
Discharge Characteristics



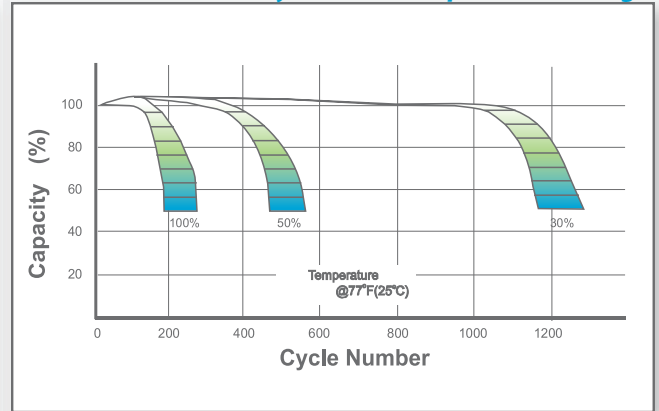
UB1223A CAM

Maintenance-Free

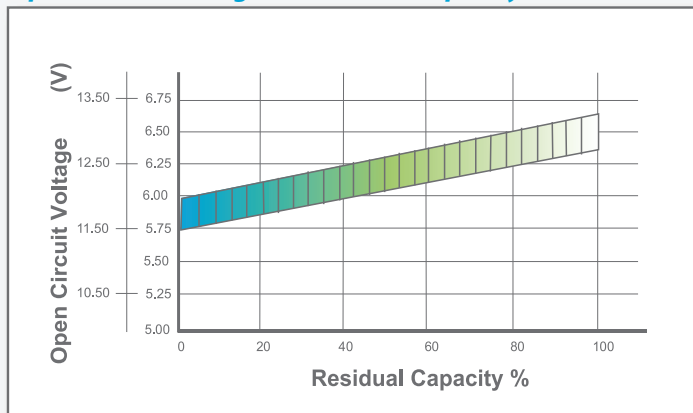
Shelf Life & Storage



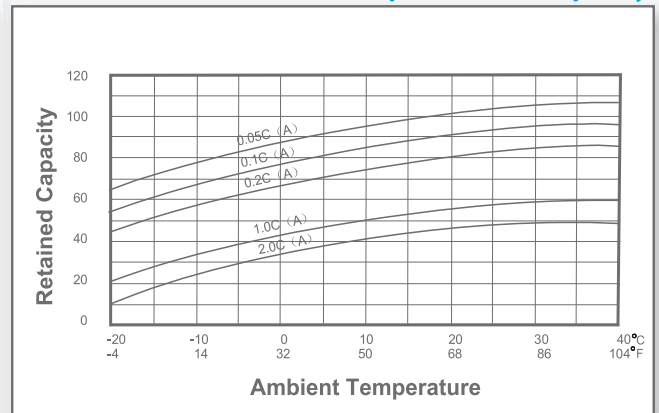
Cycle Life vs Depth of Discharge



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	1.75	1.70	1.60	1.30
	Temperature	Set Point	Allowable Range		Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C
Cycle Use	25°C(77°F)	2.45	2.40~2.50	0.30C					
Standby	25°C(77°F)	2.30	2.27~2.30						