



Sealed Lead-Acid Battery

Absorbent 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. 40696

UB12220

Maintenance-Free

Specification

Nominal Voltage	12 volts		
Nominal Capacity	77° F (25° C)		
20-hr. (1.10A)	22 Ah		
10-hr. (2.05A)	20.46 Ah		
5-hr. (18.70A)	18.70 Ah		
1-hr. (13.20A)	13.20 Ah		
Approximate Weight	13.01 lbs (5.9 kgs)		
Internal Resistance (approx.)	8mOHMS		
Shelf Life (% of normal capacity at 77° F (25° 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%



Charge Method (Constant Voltage)

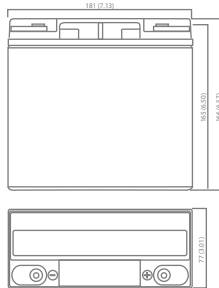
Cycle Use (Repeating Use)

Initial Current	7.7 A or smaller
Control Voltage	14.5 - 14.9 V

Float Use

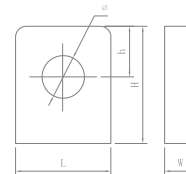
Control Voltage	13.6 - 13.8 V
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Physical Dimensions: in (mm)



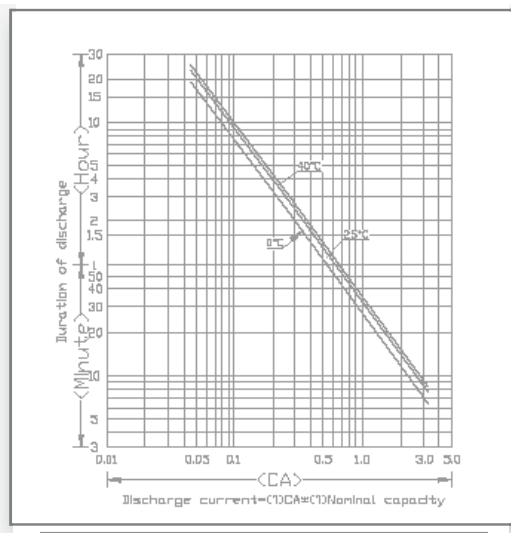
L: 7.13in (181.1 mm)
W: 3.01in (76.5 mm)
H: 6.50in (165.1 mm)
TH: 6.57in (166.9 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm)
 and +/- 0.08 in. (+/- 2mm) for height
 dimensions. All data subject to
 change without notice.

Terminals

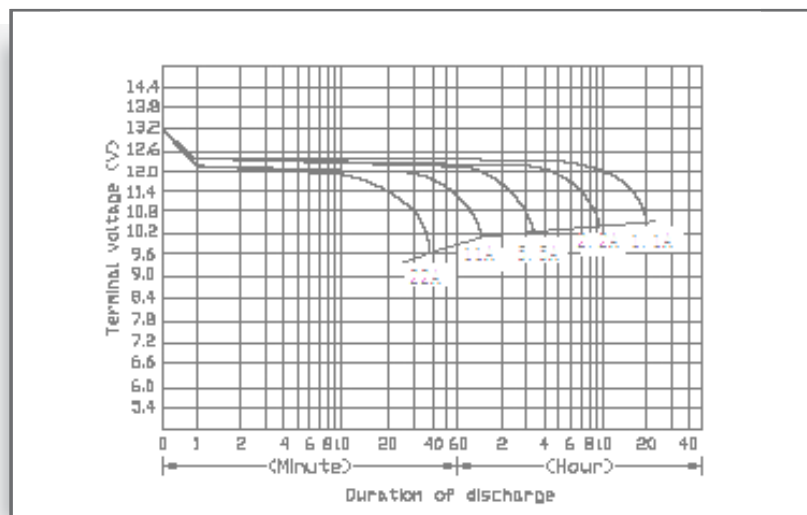


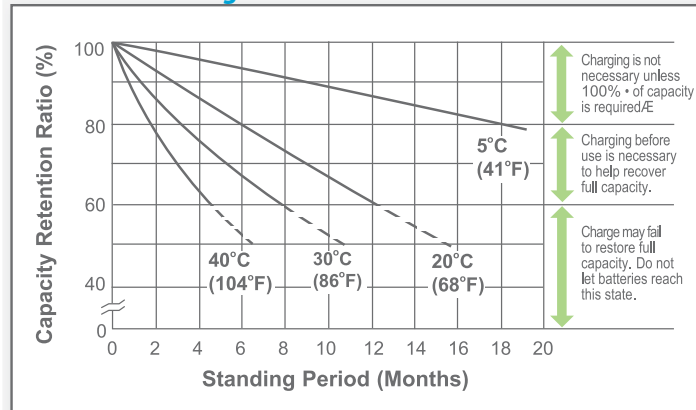
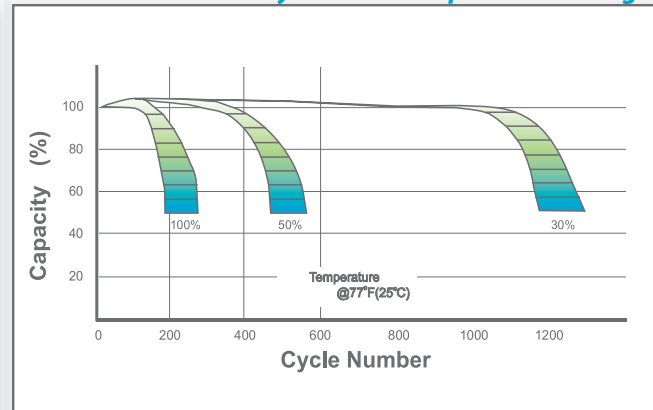
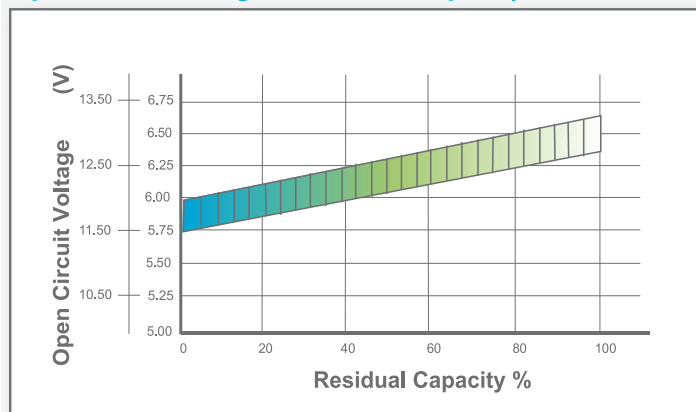
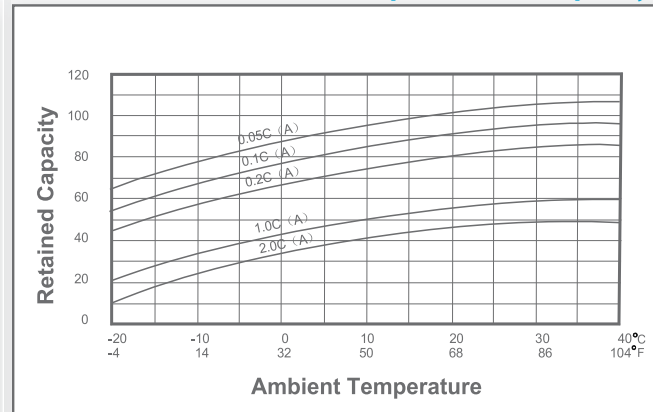
Dimension Type	L	W	H	h	ø
L4	26.5	8.0	24.5	12.0	9.0

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	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	0.35C					
Standby	25°C(77°F)	2.325	2.30~2.35						



Let UPG Power Your Life.

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