



UPG 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. 45567

UB12120FR

Maintenance-Free

Specification

Nominal Voltage	12 volts		
Nominal Capacity	77° F (25° C)		
20-hr. (0.60A)	12.0 Ah		
10-hr. (1.16A)	11.16 Ah		
5-hr. (2A)	10.2 Ah		
1-hr. (7.2A)	7.2 Ah		
Approximate Weight	8.16 lbs (3.7 kg)		
Internal Resistance (approx.)	20mΩ		
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)

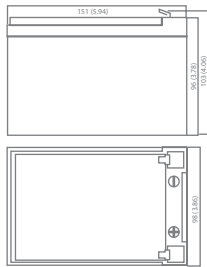
Initial Current 3.6 A or smaller

Control Voltage 14.5-14.9 V

Float Use

Control Voltage 13.6-13.8 V

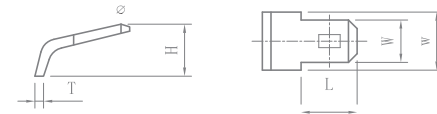
Physical Dimensions: in (mm)



L: 5.94in (151 mm)
W: 3.88in (99 mm)
H: 3.78in (96 mm)
TH: 4.06in (103 mm)

Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

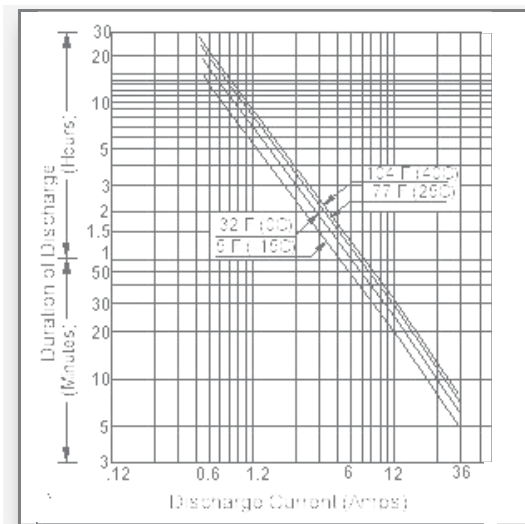
Terminals



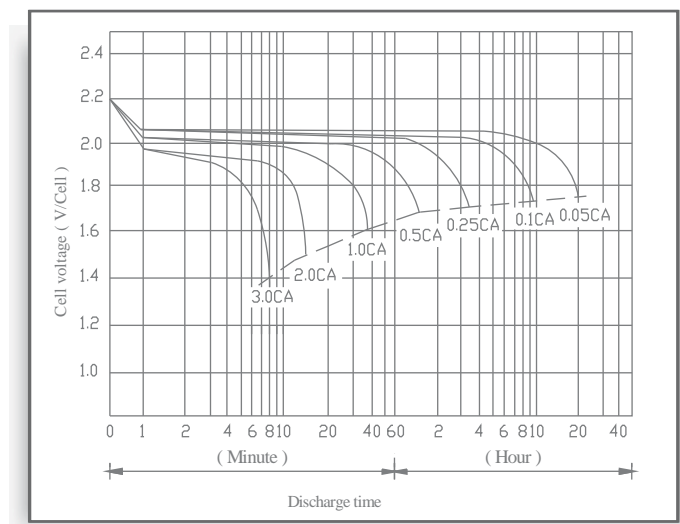
F Series (Faston Tabs)

Dimension Type	L	W	w	H	T
F2	7.80	6.35	7.80	6.00	0.80

Discharge Time vs. Discharge Current



Discharge Characteristics



ISO 9001 :2008

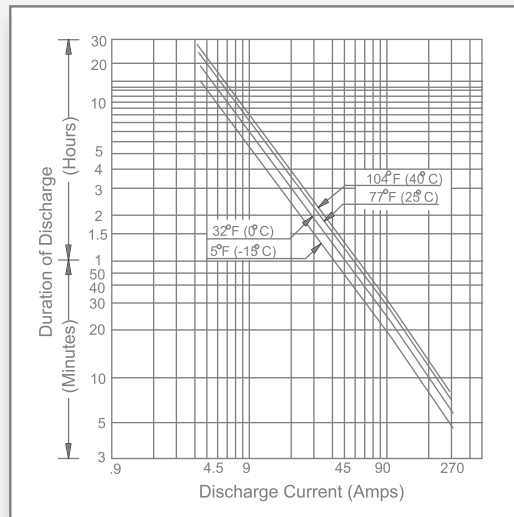
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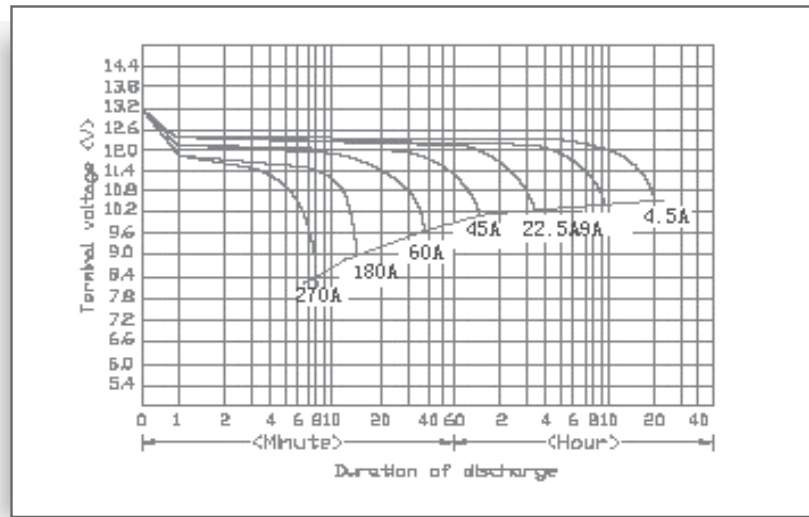
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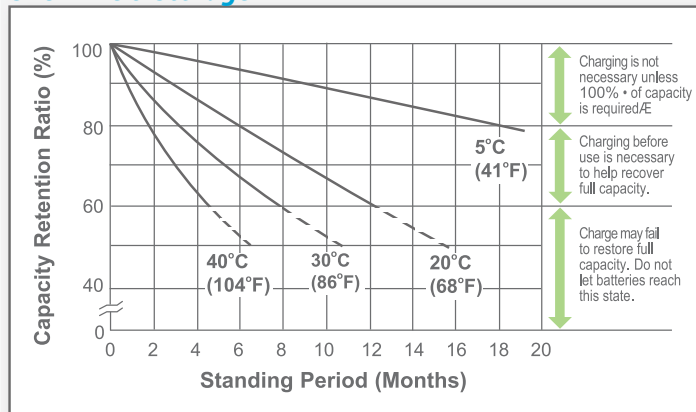
Discharge Time vs. Discharge Current



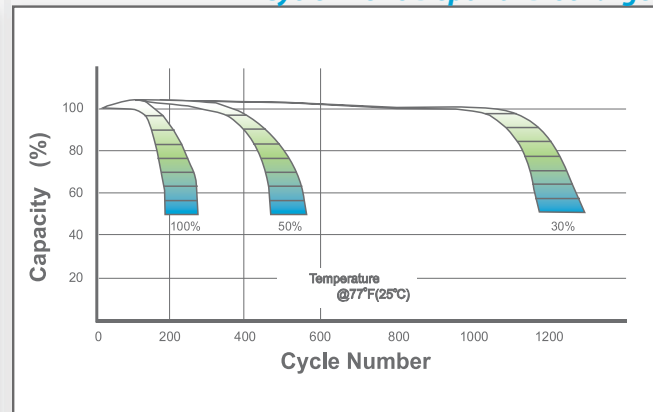
Discharge Characteristics



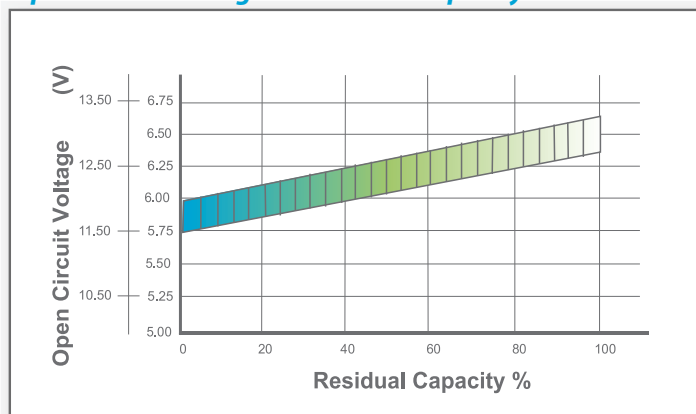
Shelf Life & Storage



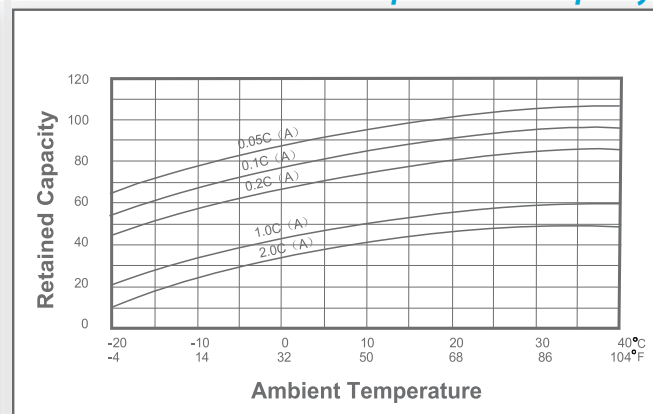
Cycle Life vs Depth of Discharge



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)	1.75	1.70	1.60	1.30
	Temperature	Set Point	Allowable Range							
Cycle Use	25°C(77°F)	2.45	2.40-2.50	0.30C	Discharge	0.2C<(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C	
Standby	25°C(77°F)	2.325	2.30-2.35							



Let UPG Power Your Life.

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