

UPG Sealed Lead-Acid Battery

UPG No. 40648

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.

UB12180

Maintenance-Free

Specification

Nominal Voltage		12 volts	
Nominal Capacity		77° F (25° C)	
20-hr.	(0.90A)	18.0 Ah	
10-hr.	(1.67A)	16.7 Ah	
5-hr.	(3.06A)	15.3 Ah	
1-hr.	(10.8A)	10.8 Ah	
Approximate Weight		11.9 lbs (5.4 kgs)	
Internal Resistance (approx.)		18mΩ	
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)

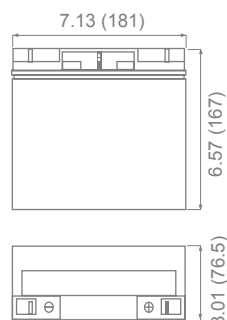
Cycle Use (Repeating Use)

Initial Current	5.4 A or smaller
Control Voltage	14.6 - 14.8 V

Float Use

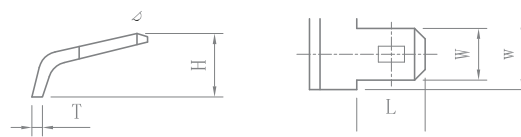
Control Voltage	13.6 - 13.8 V
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Physical Dimensions: in (mm)



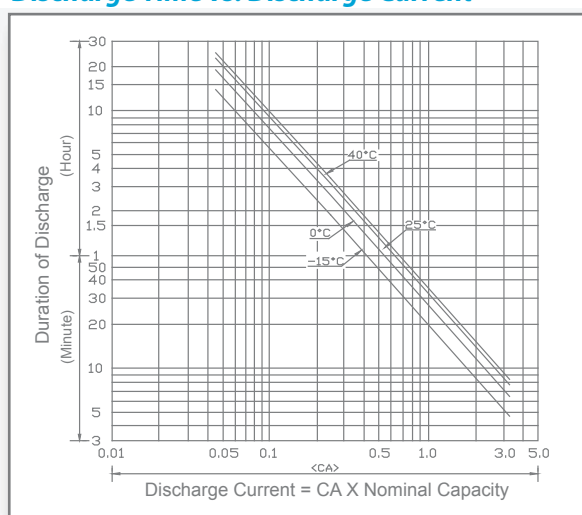
L: 7.13 in (181 mm)
W: 3.01 in (76.5 mm)
H: 6.57 in (167 mm)
TH: 6.57 in (167 mm)
 Tolerances are +/- 0.04 in. (+/- 1mm) and +/- 0.08 in. (+/- 2mm) for height dimensions. All data subject to change without notice.

Terminals

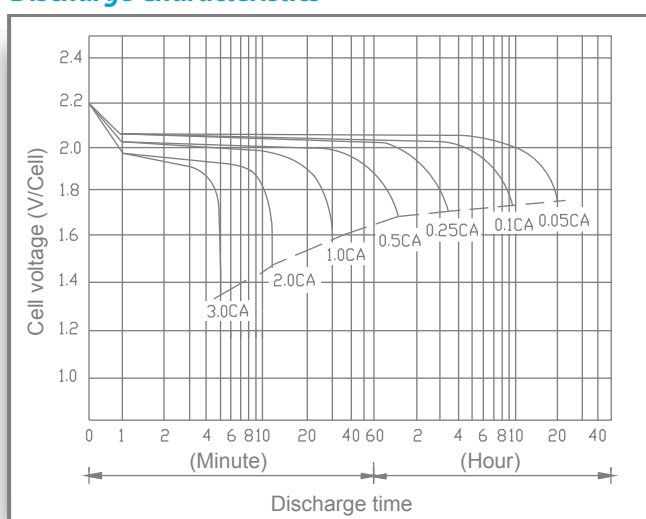


Dimension Type	L	W	w	H	T
F2	7.80	6.35	7.80	6.00	0.80

Discharge Time vs. Discharge Current



Discharge Characteristics



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UPG
STAY POWERED®

UPG is ISO Certified

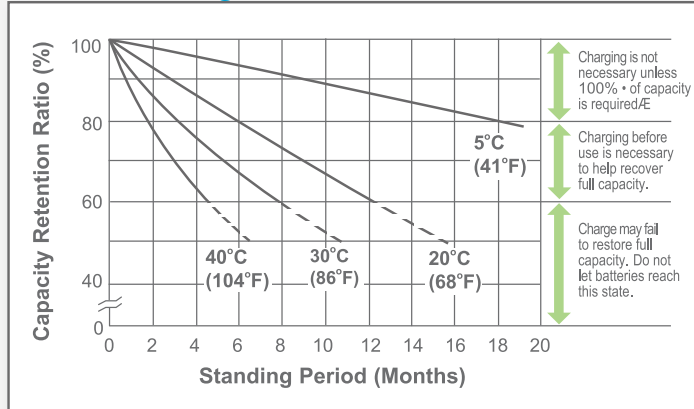
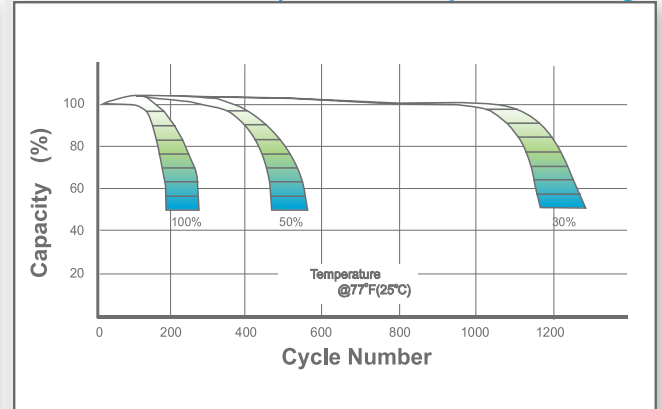
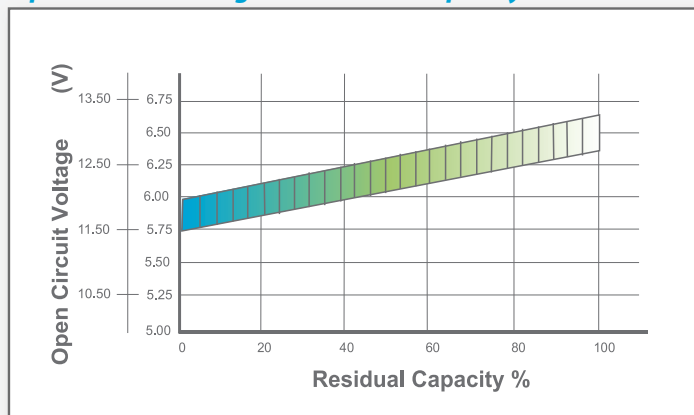
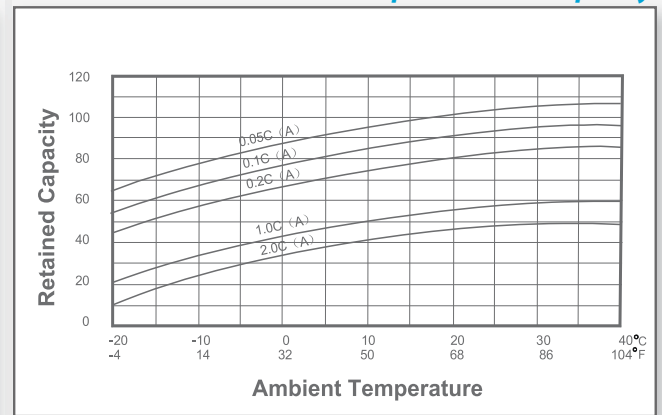
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Shelf Life & Storage**Cycle Life vs Depth of Discharge****Open Circuit Voltage vs Residual Capacity****Effect of Temperature on Capacity****Charge Current & Final Discharge Voltage**

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						