

UPG Sealed Lead-Acid Battery

UPG No. 45506

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.

UB12500FR

Maintenance-Free

Specification

Nominal Voltage	12 volts		
Nominal Capacity	77° F (25° C)		
20-hr. (2.50A)	50.0 Ah		
10-hr. (4.65A)	46.5 Ah		
5-hr. (8.50A)	42.5 Ah		
1-hr. (30.0A)	30.0 Ah		
Approximate Weight	30.2 lbs (13.7 kgs)		
Internal Resistance (approx.)	11 mΩ		
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)		
Characteristics	FR=Flame Retardant, ABS,		



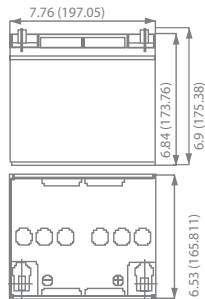
Due to continuous improvements to our products, product may vary slightly from depiction.

Charge Method (Constant Voltage)

Cycle Use (Repeating Use)

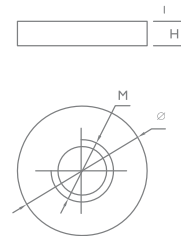
Initial Current	15 A or smaller
Control Voltage	14.6 - 14.8 V
Float Use	
Control Voltage	13.6 - 13.8 V

Physical Dimensions: in (mm)



L: 7.76in (197.05mm)
W: 6.53in (165.81mm)
H: 6.84in (173.76mm)
TH: 6.9in (175.38mm)
 Tolerances are +/- 0.04 in. (+/- 1mm)
 and +/- 0.08 in. (+/- 2mm) for height
 dimensions. All data subject to
 change without notice.

Terminals



Dimension	M	Ø	H
Type			
I6	6.00 mm 0.24 in	16.0 mm 0.63 in	4.00 mm 0.16 in

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

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	161.3	89.4	53.5	31.5	18.4	12.68	8.20	5.63	4.60	2.65
1.67V	156.7	87.3	52.5	31.1	18.2	12.63	8.16	5.60	4.58	2.60
1.70V	152.0	86.1	51.8	30.9	18.1	12.54	8.12	5.58	4.56	2.55
1.75V	136.5	82.0	51.2	30.3	17.9	12.49	8.08	5.55	4.54	2.50
1.80V	123.0	75.2	50.3	29.4	17.6	12.15	8.04	5.52	4.51	2.45

Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	5MIN	15MIN	30MIN	60MIN	2HR	3HR	5HR	8HR	10HR	20HR
1.60V	1,600	982.0	605.2	365.0	210.5	150.9	104.4	68.8	57.1	31.8
1.67V	1,650	967.0	597.9	362.0	210.2	151.0	104.1	68.5	56.8	31.2
1.70V	1,635	953.2	592.5	360.0	210.0	150.5	103.7	68.0	56.3	30.7
1.75V	1,488	912.0	585.0	358.0	208.0	149.8	102.5	67.5	55.7	30.1
1.80V	1,356	840.5	575.0	350.0	207.5	145.2	100.7	66.3	55.1	29.5

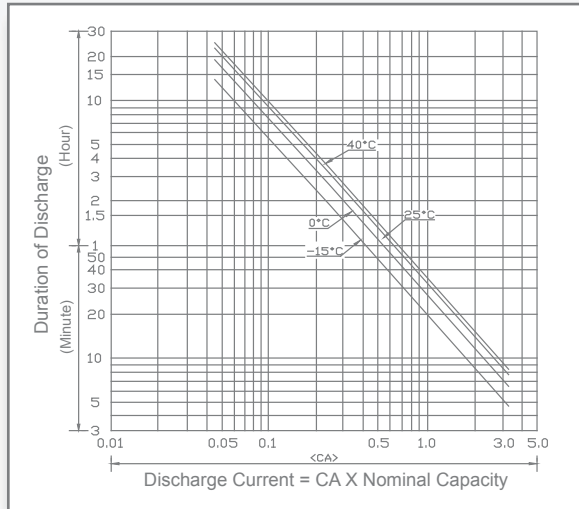
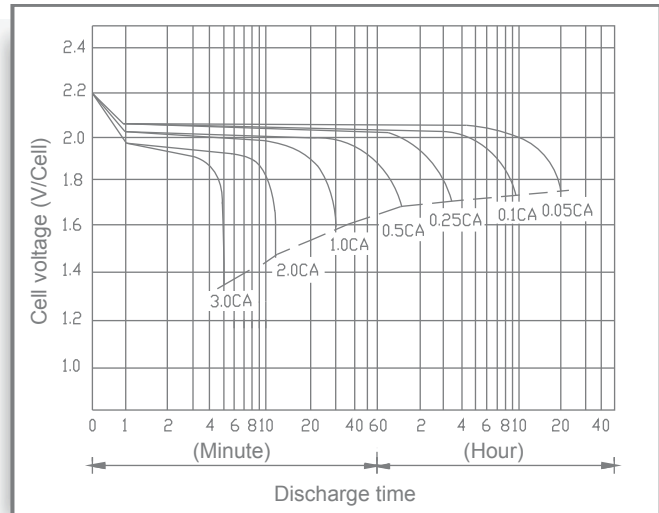
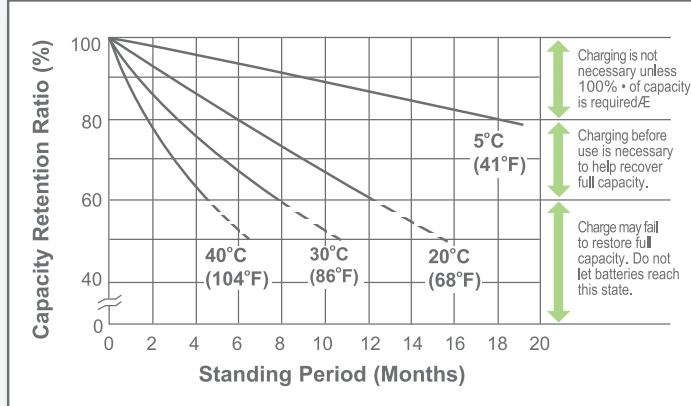
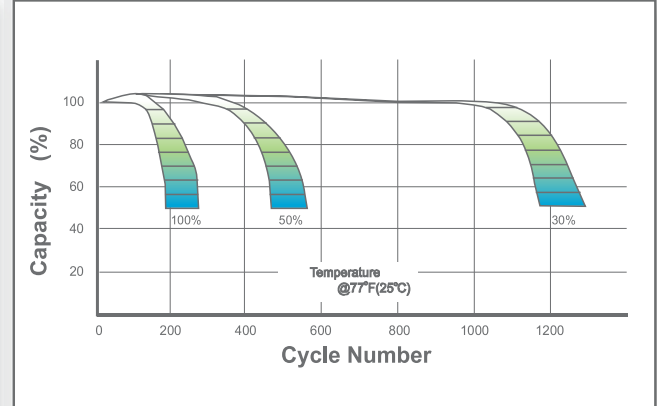
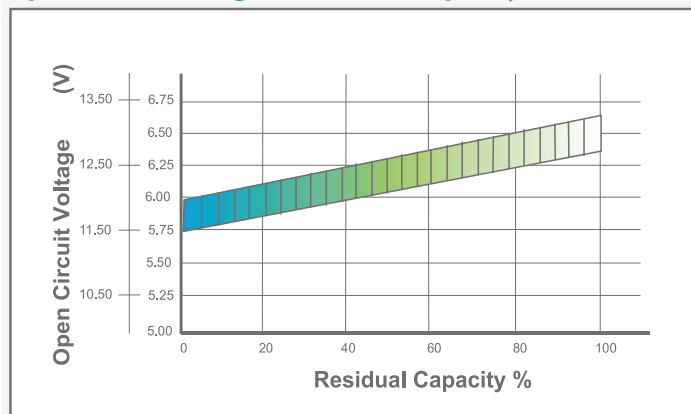
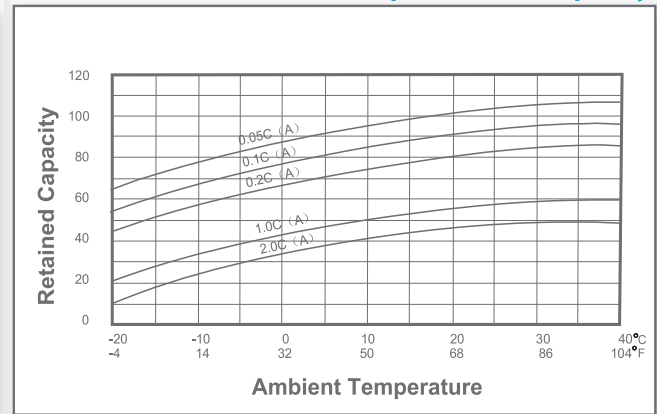
www.upgi.com

UPG is ISO 9001 Certified.

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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	1.75	1.70	1.60	1.30
	Temperature	Set Point	Allowable Range						
Cycle Use	25°C(77°F)	2.45	2.43~2.47	0.30C	Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C
Standby	25°C(77°F)	2.28	2.27~2.30						