Sealed Lead-Acid Battery

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.

UX12550

Maintenance-Free

Specification

Nominal Voltage	12 volts
Nominal Capacity	77º F (25º C)
20-hr. (2.75A)	55 Ah
10-hr. (5.12A)	51.15 Ah
5-hr. (9.35A)	46.75 Ah
1-hr. (33.0A)	33.00 Ah
Approximate Weight	40.10 lbs (17.5 kgs)
Internal Resistance (approx.)	10mΩ

Shelf Life (% of normal capacity at 77º F (25º C)

3 Months	6 Months	12 Months
91%	82%	64%

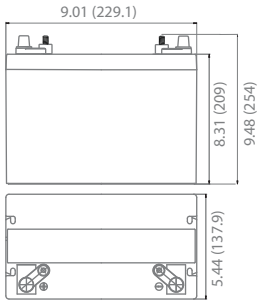
Temperature Dependency of Capacity (20 hour rate)

104º F	77º F	32º F	5º 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)
Recharge Cycles @ 50%	More than 600 cycles
Marine Cranking Amp Rating	641 Amps
Cold Cranking Amp Rating	493 Amps
Reserve Capacity Rating	90 Min.

Charge Method (Constant Voltage)	
Cycle Use (Repeating Use)	
Initial Current	16.5 A or smaller
Control Voltage	14.6 - 14.8 V
Float Use	
Control Voltage	13.6 - 13.8 V

Physical Dimensions: in (mm)

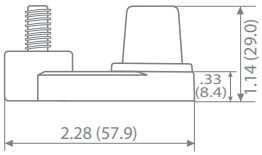


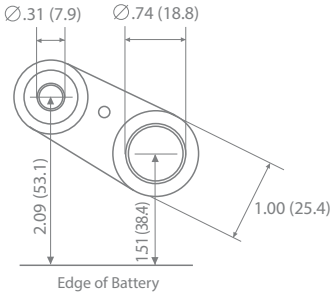
L: 9.01in (229.1 mm)
W: 5.44in (137.9 mm)
H: 8.31in (209 mm)
TH: 9.48in (254 mm)

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

Terminals

Marine Combo Post





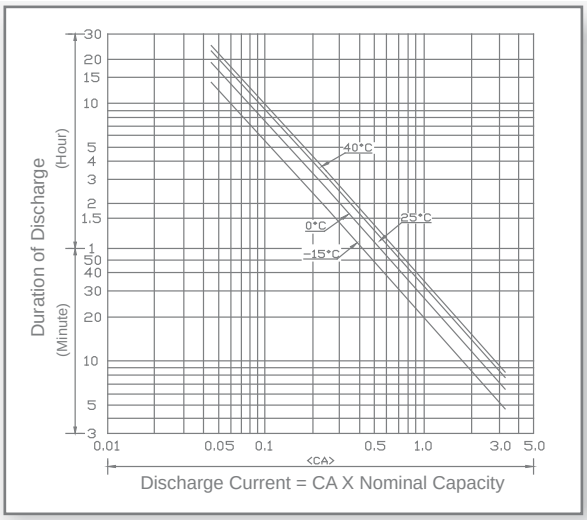
Constant Current Discharge Characteristics Unit:A (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	182.8	133.4	93.9	56.8	29.6	17.3	12.7	9.9	8.2	5.7	5.2	2.8
10.20V	161.0	121.5	84.0	53.8	27.9	16.5	12.4	9.6	8.0	5.6	5.0	2.7
10.50V	155.1	115.6	79.0	52.4	27.2	16.1	12.1	9.5	7.9	5.6	4.9	2.7
10.80V	149.2	109.7	74.1	50.9	26.2	15.7	11.8	9.3	7.7	5.4	4.9	2.7
11.10V	143.3	103.7	69.2	49.4	25.2	15.3	11.4	9.0	7.5	5.3	4.7	2.5

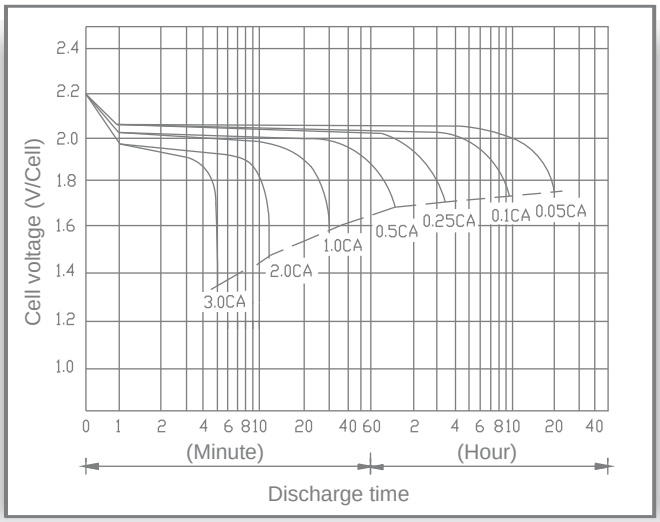
Constant Power Discharge Characteristics Unit:W (25°C, 77°F)

F.V/Time	5MIN	10MIN	15MIN	30MIN	1HR	2HR	3HR	4HR	5HR	8HR	10HR	20HR
9.60V	1940.9	1465.7	996.9	603.2	343.3	200.1	147.2	114.6	94.4	66.7	60.3	32.5
10.20V	1787.8	1349.1	932.2	597.7	322.6	191.2	143.3	111.6	94.1	65.2	58.8	31.6
10.50V	1759.1	1311.1	896.1	593.8	312.2	186.7	139.8	109.7	91.4	64.7	57.8	31.2
10.80V	1736.4	1276.5	862.5	592.3	303.8	182.8	136.8	107.7	89.9	63.2	57.3	31.1
11.10V	1704.8	1234.5	823.0	587.9	299.9	182.3	135.4	107.2	89.4	62.7	55.8	30.1

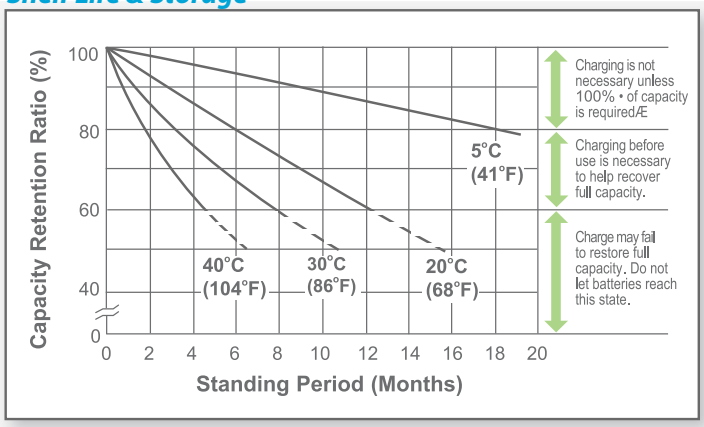
Discharge Time vs. Discharge Current



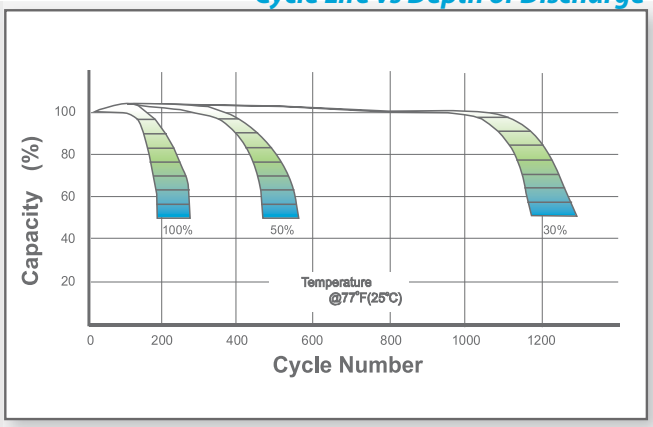
Discharge Characteristics



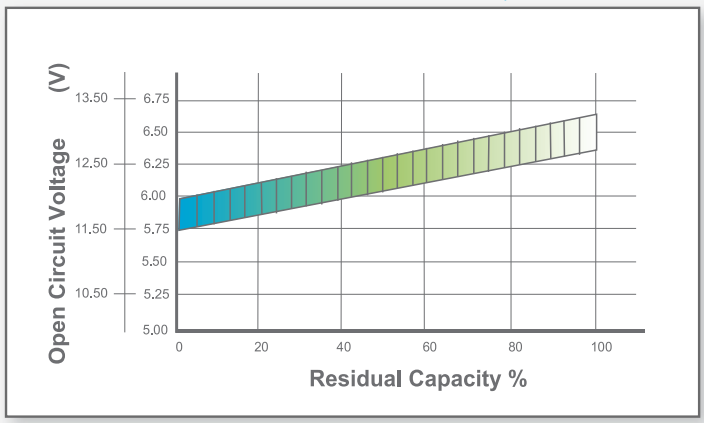
Shelf Life & Storage



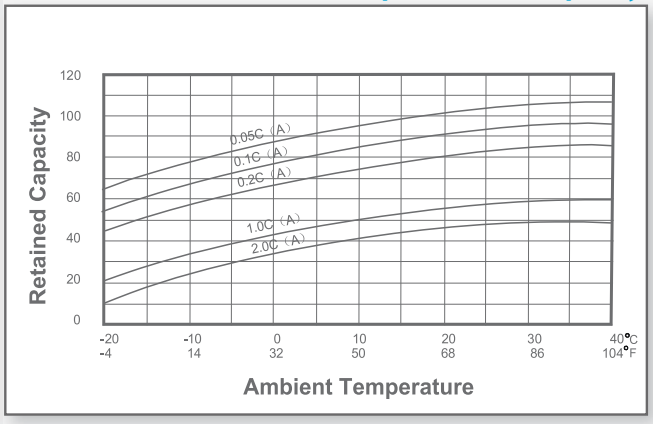
Cycle Life vs Depth of Discharge



Open Circuit Voltage vs Residual Capacity



Effect of Temperature on Capacity



Application	Charge Voltage(V/Cell) Temperature	Set Point	Allowable Range	Max.Charge Current
Cycle Use	25℃(77℉)	2.45	2.40~2.50	0.30C
Standby	25℃(77℉)	2.325	2.30~2.35	

Final Discharge Voltage V/Cell	1.75	1.70	1.60	1.30
Discharge Current(A)	0.2C>(A)	0.2C<(A)<0.5C	0.5C<(A)<1.0C	(A)>1.0C