



SERVICE FOR THE DISTANCE

# POWERSTRIDE BATTERY

UPG No. 45981

## UB121100

Maintenance-Free

### Specification

<b>Nominal Voltage</b>	12 volts		
<b>Nominal Capacity</b>	77° F (25° C)		
20-hr. (5.50A)	110.0 Ah		
10-hr. (10.23A)	102.3 Ah		
5-hr. (18.70A)	93.5 Ah		
1-hr. (66.00A)	66.0 Ah		
<b>Approximate Weight</b>	62.7 lbs (28.4 kgs)		
<b>Internal Resistance (approx.)</b>	5mΩ		
<b>Shelf Life</b> (% of normal capacity at 77° F (25° C))			
3 Months	6 Months	12 Months	
91%	82%	64%	
<b>Temperature Dependency of Capacity</b>	(20 hour rate)		
104° F	77° F	32° F	5° F
102%	100%	85%	65%
<b>AGM Operational Temperature</b>			
Charge	0°C to 40°C		
Discharge	-15°C to 45°C		
<b>AGM Storage Temperature</b>	-15°C to 40°C		



### Charge Method (Constant Voltage)

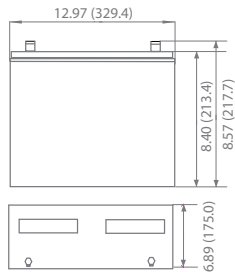
### Cycle Use (Repeating Use)

Initial Current	33 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:** 12.97in (329.4 mm)  
**W:** 6.89in (175.0 mm)  
**H:** 8.40in (213.4 mm)  
**TH:** 8.57in (217.7 mm)

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

### Terminals



### I Series (Internal Thread Terminal)

Dimensions Type	∅	H
I6	16	4

### 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	361.1	269.3	189.5	114.7	59.9	34.9	25.6	20.0	16.5	11.6	10.5	5.7
10.20V	325.2	245.4	169.6	108.7	56.3	33.3	24.9	19.5	16.2	11.4	10.2	5.5
10.50V	313.2	233.4	159.6	105.7	54.9	32.5	24.3	19.2	16.0	11.3	10.0	5.5
10.80V	301.2	221.4	149.6	102.7	52.9	31.7	23.7	18.9	15.6	11.0	10.0	5.4
11.10V	289.3	209.5	139.7	99.8	50.9	30.9	22.9	18.3	15.2	10.7	9.5	5.1

### 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	3919.2	2959.6	2013.0	1217.9	693.3	404.0	297.3	231.4	190.5	134.7	121.7	65.5
10.20V	3610.0	2724.2	1882.3	1207.0	651.4	386.0	289.3	225.4	149.7	131.7	118.7	63.8
10.50V	3552.1	2647.4	1809.5	1199.0	630.4	377.1	282.3	221.4	184.5	130.7	116.7	63.0
10.80V	3506.2	2577.5	1741.6	1196.0	613.5	369.1	276.3	217.5	181.5	127.7	115.7	62.7
11.10V	3442.4	2492.8	1661.8	1187.0	605.5	368.1	273.3	216.5	180.5	126.7	112.7	60.8



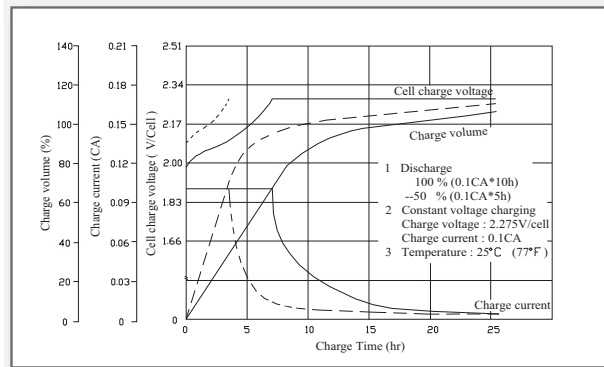
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REGISTRARS, INC.

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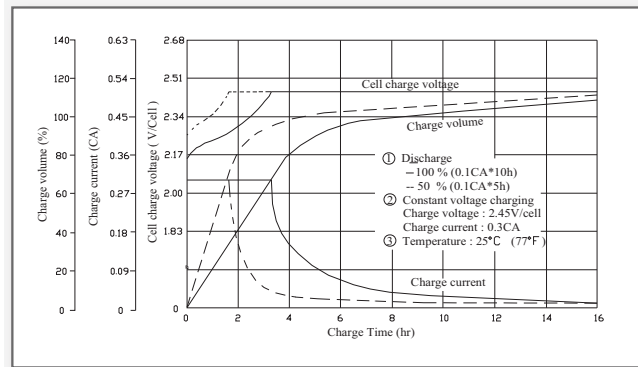
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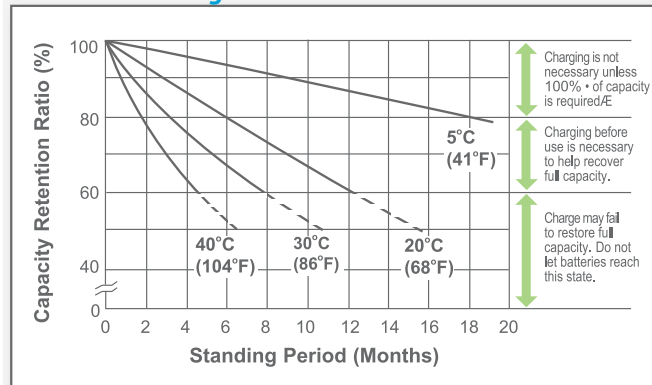
## Battery Charging Characteristics for Standby Use



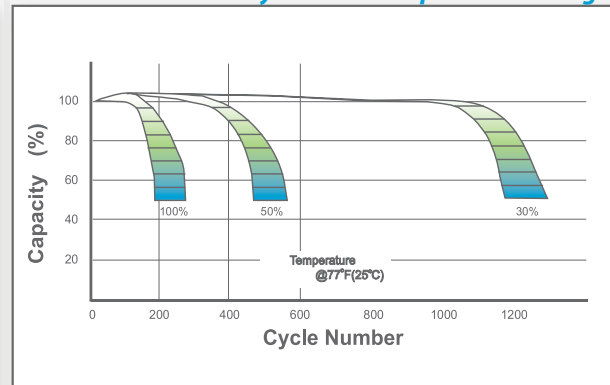
## Battery Charging Characteristics for Cyclic Use



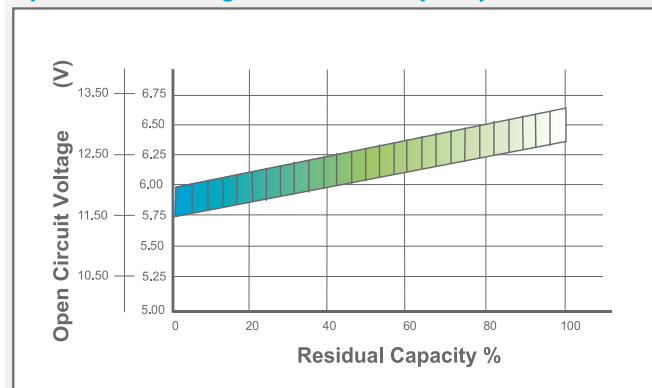
## Shelf Life & Storage



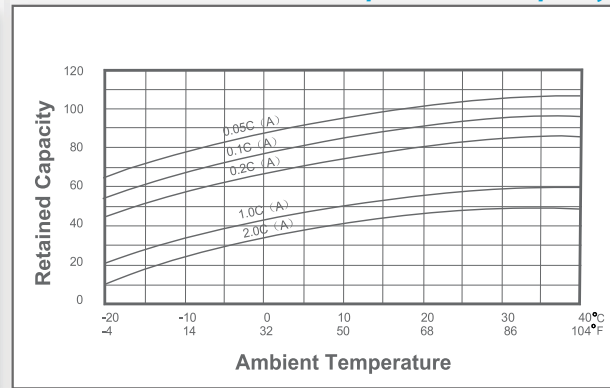
## Cycle Life vs Depth of Discharge



## 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)
	Temperature	Set Point	Allowable Range			
Cycle Use	25°C(77°F)	2.45	2.43~2.47	0.30C	1.75	1.70
Standby	25°C(77°F)	2.285	2.27~2.30		1.60	1.30
						0.2C>(A)
						0.2C<(A)<0.5C
						0.5C<(A)<1.0C
						(A)>1.0C



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