



Valve Regulated Lead-Acid Rechargeable Battery



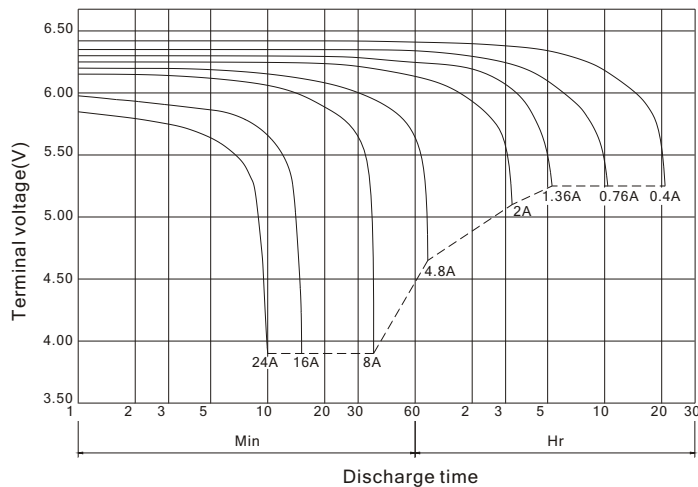
BP8-6

The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position (but upside-down should be avoided) without leakage.

PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	6 volts(3cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (400A to 5.25volts)	8.0Ah
10 Hour rate F.V.(1.75V/cell) (760A to 5.25volts)	7.6Ah
5 Hour rate F.V.(1.75V/cell) (1360A to 5.25volts)	6.8Ah
1 Hour rate F.V.(1.55V/cell) (4800A to 4.65volts).....	4.8Ah
Approximate Weight.....	1350g(2.98lbs.)
Terminal	
Standard.....	Type T1
Optional.....	Type T2
Internal Resistance (Fully Charged Battery).....	$\leq 12.5m \Omega$
Maximum Discharge Current For 5 sec.(A).....	120A
Maximum Charge Current(A).....	2.40A
Ambient Temperature	
Charge.....	0°C(32°F)~40°C(104°F)
Discharge.....	-20°C(-4°F)~50°C(122°F)
Storage.....	-20°C(-4°F)~40°C(104°F)
Vibration test:	
Frequency: 16.7Hz	
Amplitude: 4mm	
Vibrate the battery horizontally or vertically for 60 minutes. The battery have no abnormality.	
Case.....	ABS: UL 94-HB
Dimension(mm/inch)	
Length $\pm 1.5mm$	151/5.94
Width $\pm 1.5mm$	34/1.34
Container Height $\pm 1.5mm$	94/3.70
Total Height $\pm 2mm$	100/3.94
Application.....	Electronic Toy-Cars.Emergency Lights, Rechargeable Flashlights, UPS, Fans

BP8-6 Battery discharge characteristics (25°C/77°F)

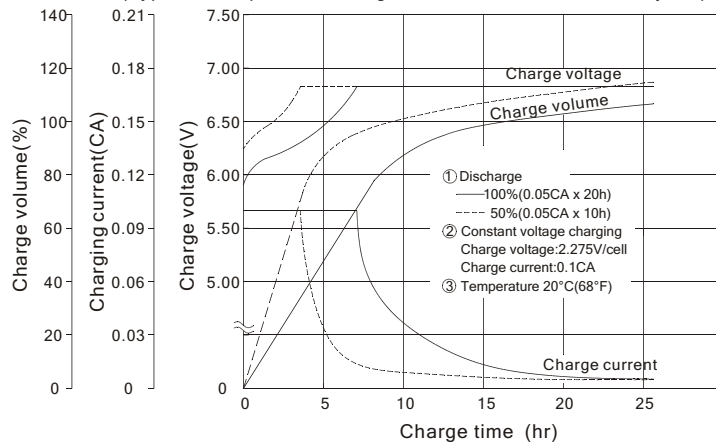


Charging Procedure

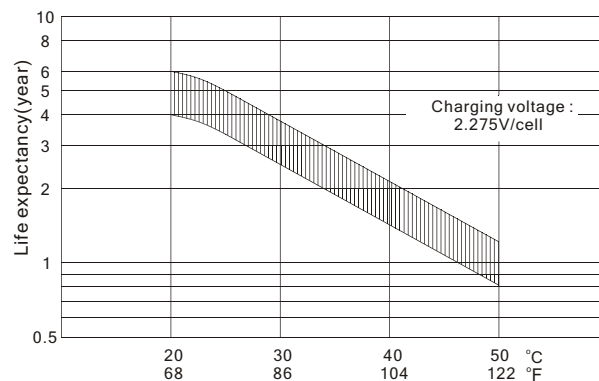
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

Battery Charging Characteristics

(Typical example of the charge characteristic for the standby use)

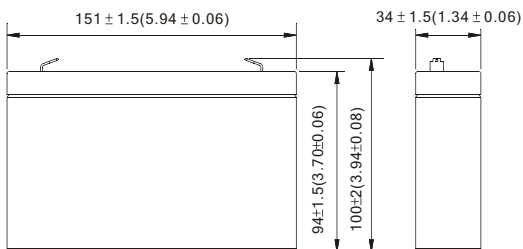
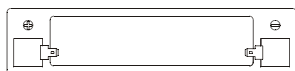


Effect of Temperature on Long Term Float Life



OUTER DIMENSIONS

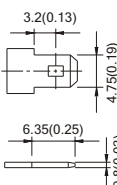
mm (inch)



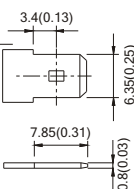
TERMINAL TYPE

mm (inch)

Terminal T1



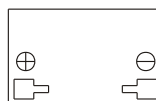
Terminal T2



Constant power discharge characteristics at 25°C/77°F

Final Voltage	Discharge time									
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr	
	Battery output power (W)									
5.40V	144.6	106.5	85.3	50.8	29.1	11.7	8.0	4.5	2.4	
5.25V	167.4	115.3	89.2	52.7	30.0	11.9	8.2	4.6	2.4	
5.10V	177.9	119.5	92.0	53.9	30.5	12.0	8.2	4.6	2.4	
4.95V	185.8	122.4	94.1	54.7	30.9	12.1	8.2	4.6	2.4	
4.80V	192.0	124.8	96.0	55.2	31.2	12.2	8.3	4.6	2.4	

TERMINAL POSITION



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