



Valve Regulated Lead-Acid Rechargeable Battery



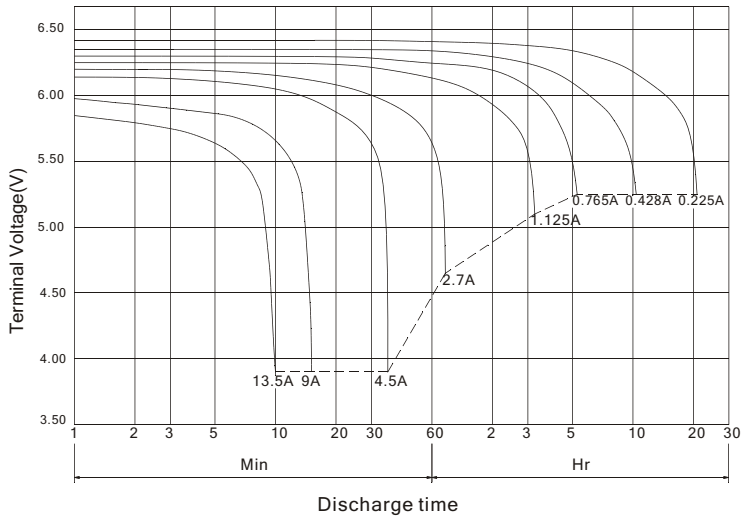
BP4.5-6

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

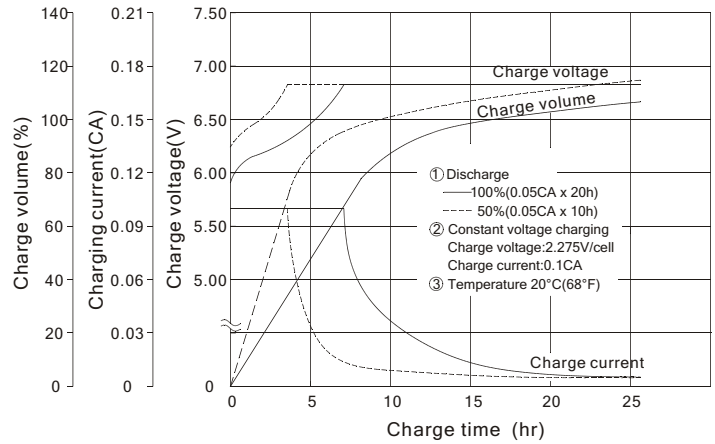
Nominal Voltage(V).....	6 volts(3cells in series)
Nominal Capacity(Ah)	
20 hour rate F.V.(1.75V/cell) (225mA to 5.25volts)	4.50Ah
10 hour rate F.V.(1.75V/cell) (428mA to 5.25volts)	4.28Ah
5 hour rate F.V.(1.75V/cell) (765mA to 5.25volts)	3.83Ah
1 hour rate F.V.(1.55V/cell) (2700mA to 4.65volts).....	2.70Ah
Approximate Weight.....	910g(2.00lbs.)
Terminal	
Standard.....	Type T1
Optional.....	Type T2
Internal Resistance (Fully Charged Battery).....	$\leq 21m \Omega$
Maximum Discharge Current For 5 sec.(A).....	67.5A
Maximum Charge Current(A).....	1.35A
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 $\pm 1.5mm$	70/2.76
Width $\pm 1.5mm$	48/1.89
Container Height $\pm 1.5mm$	102/4.02
Total Height $\pm 2mm$	107/4.21
Application.....	Electronic Toy-Cars.Emergency Lights, Rechargeable Flashlights, UPS, Fans.

BP4.5-6 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

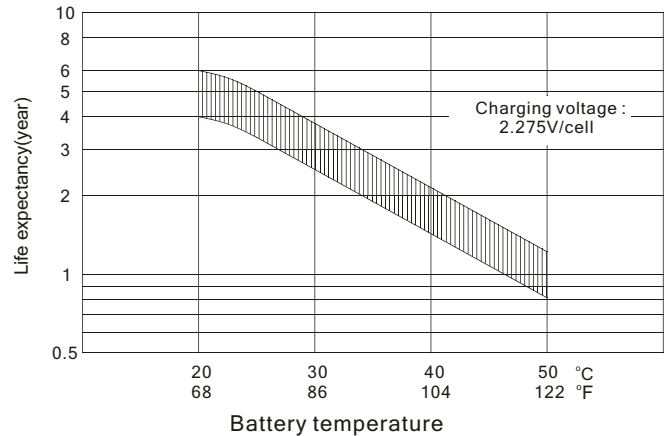
(Typical example of the charge characteristic for the standby use)



Charging Procedure

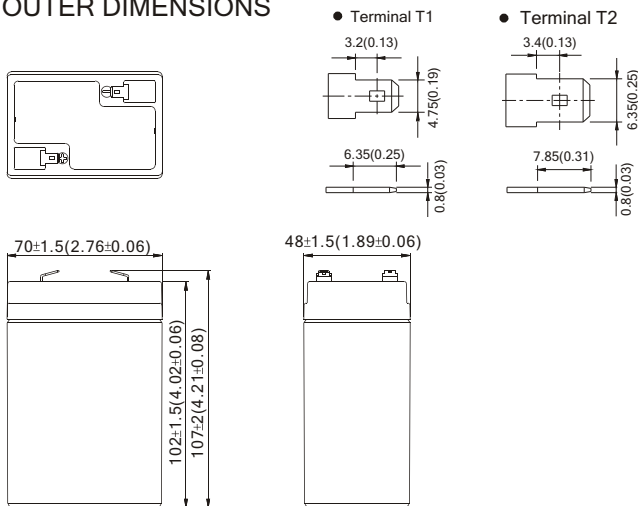
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (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	

Effect of Temperature on Long Term Float Life



TERMINAL TYPE mm(inch)

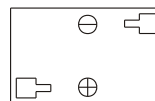
OUTER DIMENSIONS



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	81.3	59.9	48.0	28.6	16.38	6.56	4.52	2.53	1.33
5.25V	94.2	64.9	50.2	29.6	16.87	6.69	4.59	2.56	1.35
5.10V	100.0	67.2	51.8	30.3	17.17	6.75	4.62	2.58	1.36
4.95V	104.5	68.8	52.9	30.7	17.38	6.80	4.63	2.59	1.36
4.80V	108.0	70.2	54.0	31.1	17.55	6.84	4.65	2.59	1.36

TERMINAL POSITION



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