



Valve Regulated Lead-Acid Rechargeable Battery



BP1.0-6

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) (50mA to 5.25volts).....1.0Ah

10 hour rate F.V.(1.75V/cell) (95mA to 5.25volts).....0.95Ah

5 hour rate F.V.(1.75V/cell) (170mA to 5.25volts)0.85Ah

1 hour rate F.V.(1.55V/cell) (600mA to 4.65volts).....0.60Ah

Approximate Weight.....250g(0.55lbs.)

Terminal

Standard.....Type T1

Internal Resistance (Fully Charged Battery)..... $\leq 65m\Omega$

Maximum Discharge Current For 5 sec.(A).....15A

Maximum Charge Current(A)0.3A

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: 16.7 Hz

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$51/2.01

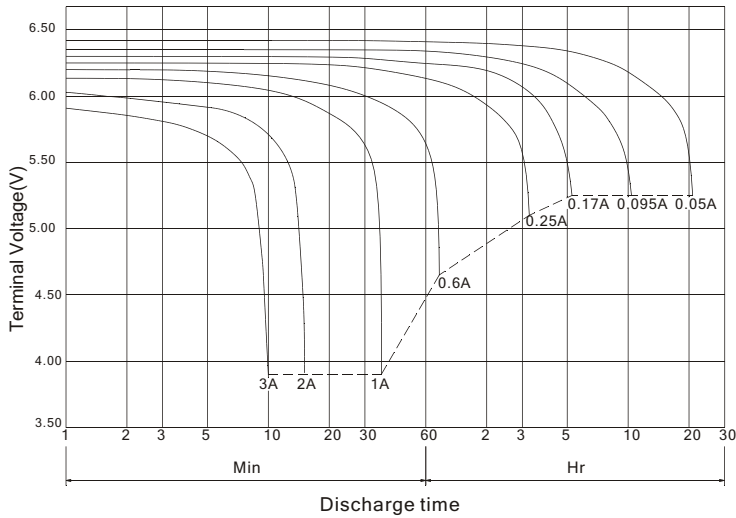
Width $\pm 1.5mm$42/1.65

Container Height $\pm 1.5mm$51/2.01

Total Height $\pm 2mm$56/2.20

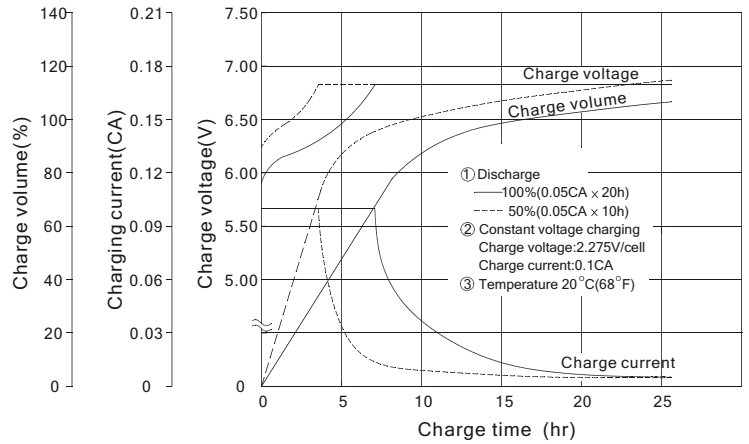
Application.....Security,Medical,Lojack.

BP1.0-6 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

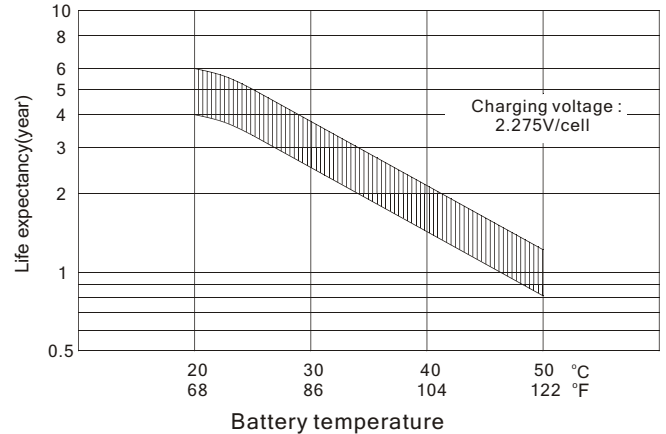
(Typical example of the charge characteristic for the standby use)



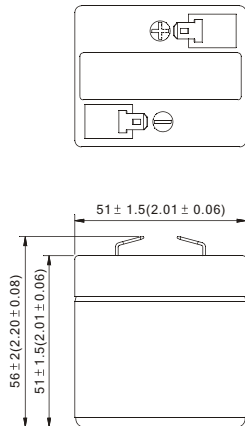
Charging Procedure

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

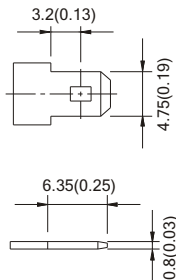


OUTER DIMENSIONS



TERMINAL TYPE mm(inch)

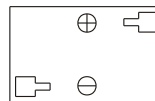
• Terminal T1



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

Final Voltage	Discharge time							
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr
Battery output power(W)								
5.40V	18.1	13.3	10.7	6.3	3.64	1.46	1.00	0.56
5.25V	20.9	14.4	11.2	6.6	3.75	1.49	1.02	0.57
5.10V	22.2	14.9	11.5	6.7	3.82	1.50	1.03	0.57
4.95V	23.2	15.3	11.8	6.8	3.86	1.51	1.03	0.57
4.80V	24.0	15.6	12.0	6.9	3.90	1.52	1.03	0.57

TERMINAL POSITION



B.B. BATTERY CO., LTD.

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