



Valve Regulated Lead-Acid Rechargeable Battery



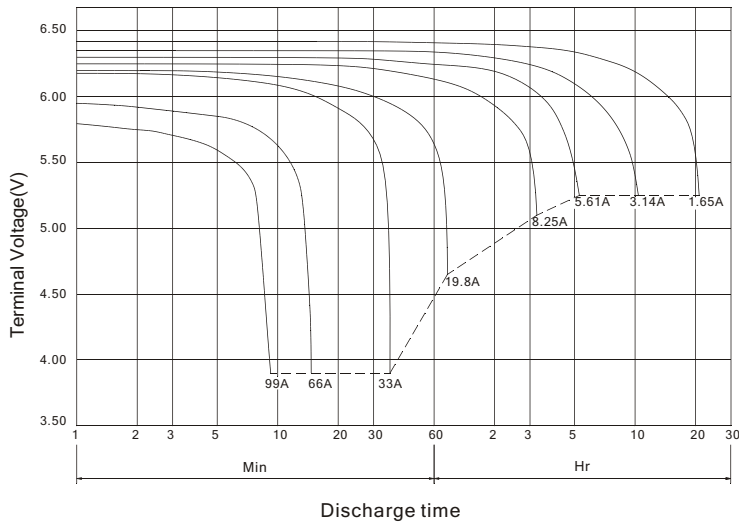
BP33-6

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

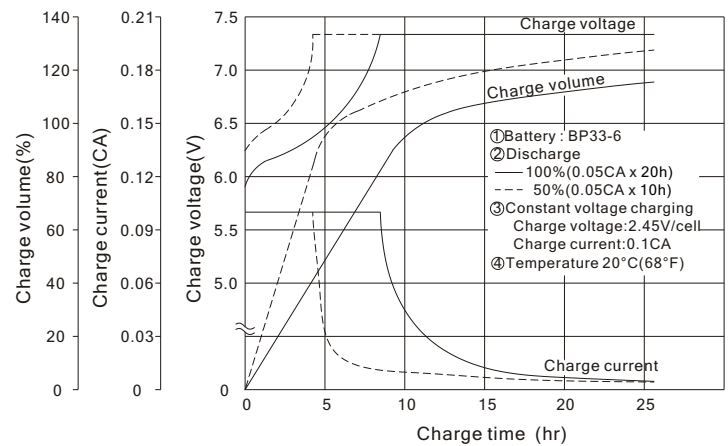
Nominal Voltage(V).....	6 volts(3 cells in series)
Nominal Capacity(Ah)	
20 hour rate F.V.(1.75V/cell) (1650mA to 5.25volts)	33.00Ah
10 hour rate F.V.(1.75V/cell) (3135mA to 5.25volts)	31.35Ah
5 hour rate F.V.(1.75V/cell) (5610mA to 5.25volts)	28.05Ah
1 hour rate F.V.(1.55V/cell) (19800mA to 4.65volts).....	19.80Ah
Approximate Weight.....	6000g(13.23lbs.)
Terminal	
Standard.....	Type B1
Optional.....	Type T2
Terminal Hardware Initial Torque.....	2.5 Nm $\pm$ 5%
Internal Resistance (Fully Charged Battery).....	$\leq$ 4.5m Ω
Maximum Discharge Current For 5 sec.(A).....	255A
Maximum Charge Current(A).....	9.9A
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.....	181/7.13
Width $\pm$ 1.5mm.....	76/2.99
Container Height $\pm$ 1.5mm.....	166/6.54
Total Height $\pm$ 1.5mm.....	166/6.54
Application.....	Lighting.

BP33-6 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

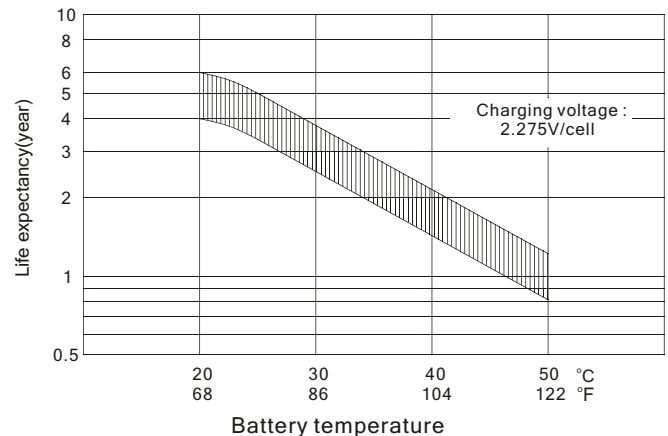
(Typical example of the charge characteristics for the standby use)



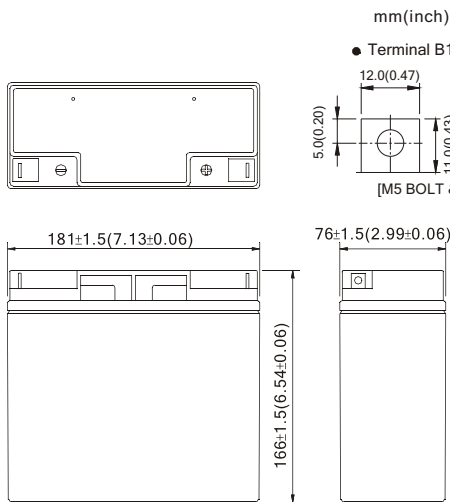
Charging Procedure

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	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service	(with current restriction)	2.40~2.50	-4	0.3	16	10	

Effect of Temperature on Long Term Float Life

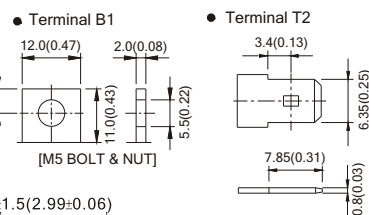


OUTER DIMENSIONS



TERMINAL TYPE

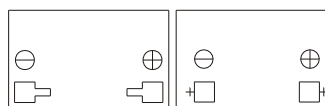
mm (inch)



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

Final Voltage	Discharge time					
	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
	Battery output power(W)					
5.40V	209.4	120.09	48.09	33.16	18.53	9.75
5.25V	217.3	123.69	49.06	33.66	18.81	9.90
5.10V	222.3	125.91	49.50	33.84	18.90	9.95
4.95V	225.4	127.43	49.84	33.96	18.96	9.98
4.80V	227.7	128.70	50.14	34.06	18.96	9.98

TERMINAL POSITION



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