



Valve Regulated Lead-Acid Rechargeable Battery

BP33-6

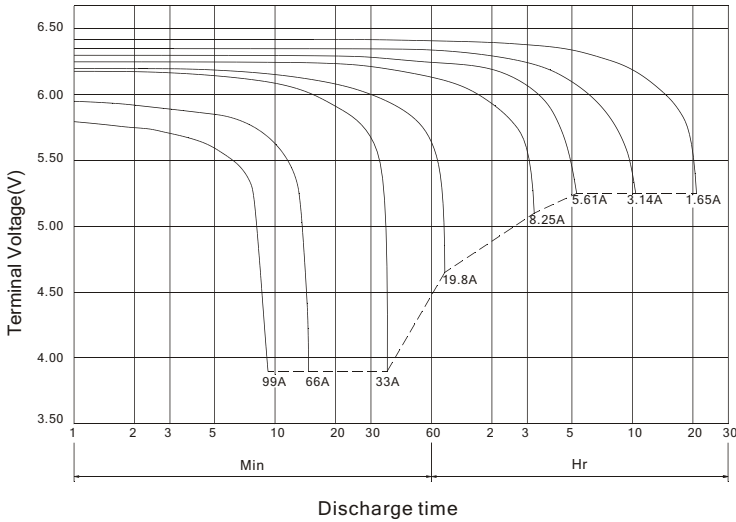


The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position without leakage.

PERFORMANCE SPECIFICATIONS

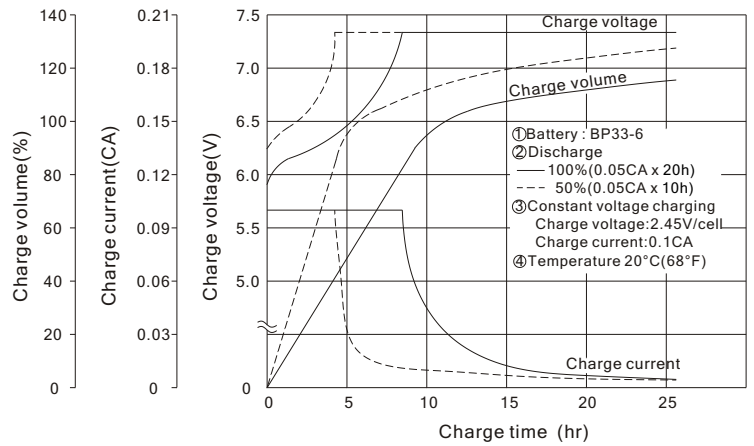
Nominal Voltage(V).....	6 volts(3 cells in series)
Nominal Capacity(AH)	
20 hour rate F.V.(1.75V/cell) (1650mA to 5.25volts)	33.0A.H.
10 hour rate F.V.(1.75V/cell) (3135mA to 5.25volts)	31.35A.H.
5 hour rate F.V.(1.75V/cell) (5610mA to 5.25volts)	28.05A.H.
1 hour rate F.V.(1.55V/cell) (19800mA to 4.65volts).....	19.8A.H.
Approximate Weight.....	6000g(13.23lbs.)
Terminal	
Standard.....	Type B1
Optional.....	Type T2.I1
Internal Resistance (Fully Charged Battery).....	<4.5mΩ
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
Dimension(mm/inch)	
Length ±1.5mm.....	181/7.13
Width ±1.5mm.....	76/2.99
Container Height ±1.5mm.....	166/6.54
Total Height ±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)

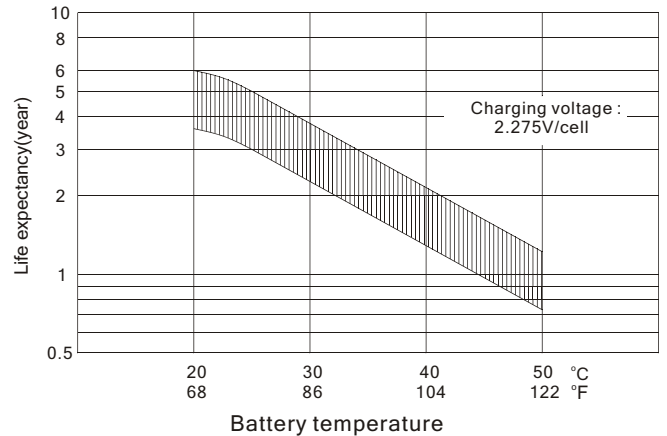


Charging Procedure

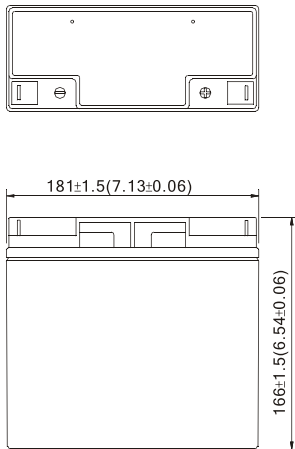
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging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

*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

Effect of Temperature on Long Term Float Life



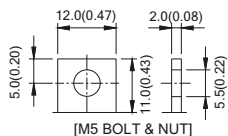
OUTER DIMENSIONS



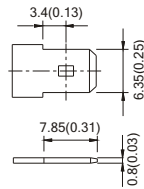
TERMINAL TYPE

mm (inch)

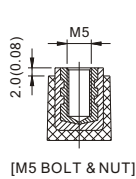
● Terminal B1



● Terminal T2



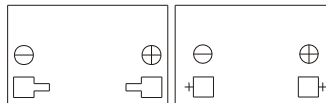
● Terminal I1



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

Final Voltage	Discharge time					
	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
5.40V	209.4	120.09	48.09	33.16	18.53	9.69
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	9.97
4.80V	227.7	128.70	50.14	34.06	18.96	9.97

TERMINAL POSITION



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