



Valve Regulated Lead-Acid Rechargeable Battery



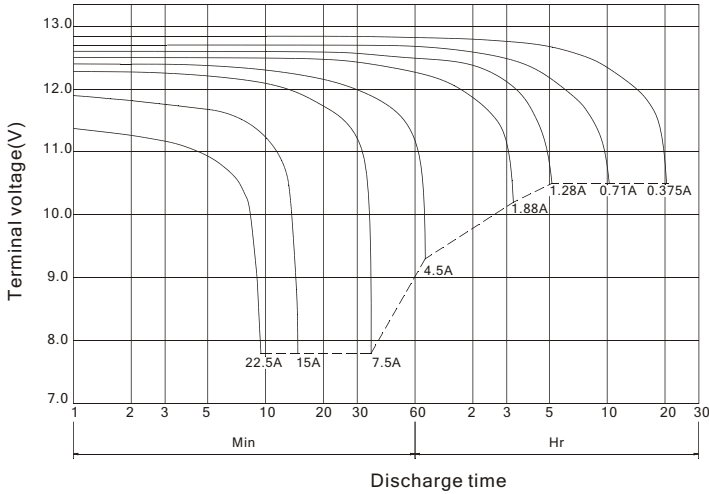
BPL7.5-12

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.

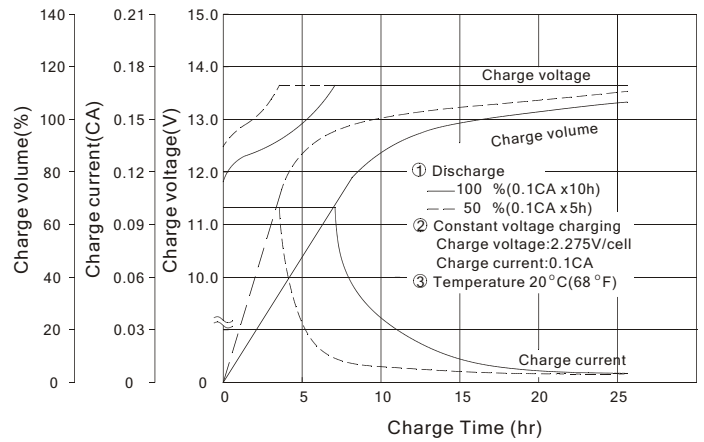
PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (375mA to 10.50volts)	7.50Ah
10 Hour rate F.V.(1.75V/cell) (713mA to 10.50volts)	7.13Ah
5 Hour rate F.V.(1.75V/cell) (1275mA to 10.50volts)	6.38Ah
30 Min rate F.V.(1.30V/cell) (7500mA to 7.80volts).....	3.75Ah
Approximate Weight.....	2700g(5.95lbs.)
Terminal	
Standard.....	Type T2
Optional.....	Type T1
Internal Resistance (Fully Charged Battery).....	<25m Ω
Maximum Discharge Current For 5 sec.(A).....	112.5A
Maximum Charge Current(A).....	2.25A
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.	
Design Life:10 years for standby use at 20°C	
Case.....	ABS
Dimension(mm/inch)	
Length ±1.5mm.....	151/5.94
Width ±1.5mm.....	65/2.56
Container Height ±1.5mm.....	94/3.70
Total Height ±2.0mm.....	100/3.94
Application.....	UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

BPL7.5-12 Battery discharge characteristics (25 °C/77 °F)



Battery Charging Characteristics (Typical example of charge characteristic for the standby use)

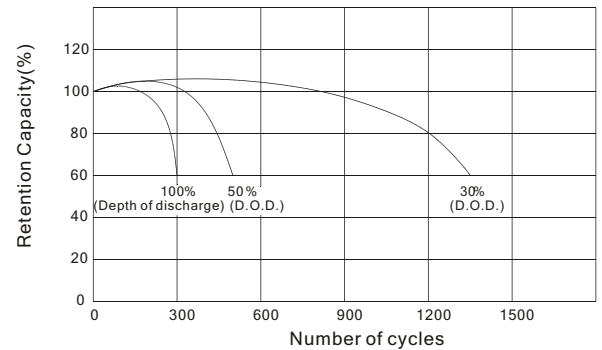


Charging Procedure

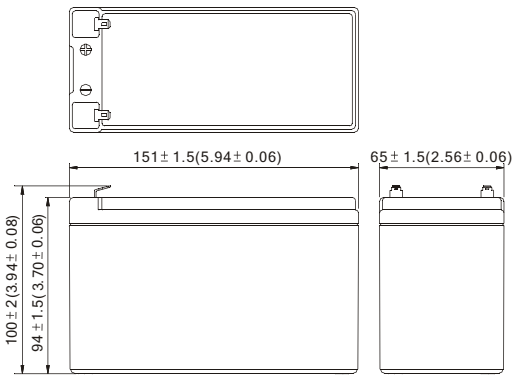
Application	Charging method	Charging Voltage at 20 °C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20 °C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power source	Constant voltage & Constant current charging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

Battery Life Characteristics of Cyclic Use

Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7V/cell)
 Charging Current : 0.1C Amp
 Charging Volume : 120% OF Discharge Capacity
 Ambient Temperature : 20 °C (68 °F)

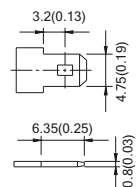


OUTER DIMENSIONS mm(inch)

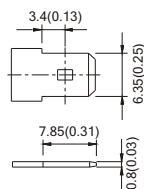


TERMINAL TYPE mm(inch)

Terminal T1



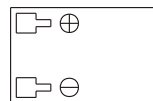
Terminal T2



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	244.3	183.6	148.7	89.5	51.9	21.9	15.1	8.42	4.40
10.50V	282.9	199.0	155.7	92.9	53.4	22.3	15.3	8.55	4.50
10.20V	300.0	206.1	160.4	94.9	54.3	22.5	15.4	8.59	4.52
9.90V	313.9	211.1	164.1	96.3	55.1	22.7	15.5	8.61	4.53
9.60V	323.6	215.3	167.4	97.3	55.6	22.8	15.5	8.61	4.53

TERMINAL POSITION



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