



# Maintenance-Free Rechargeable Sealed Lead-Acid Battery



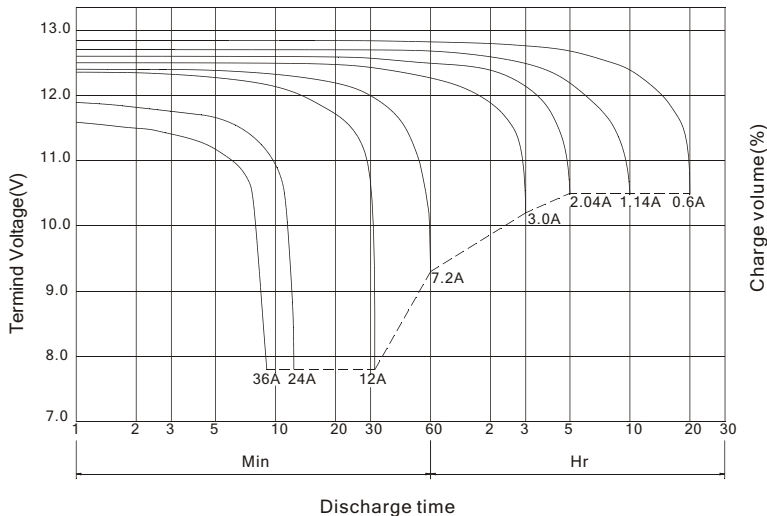
## BPL12-12

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 use in any direction and position without leakage.

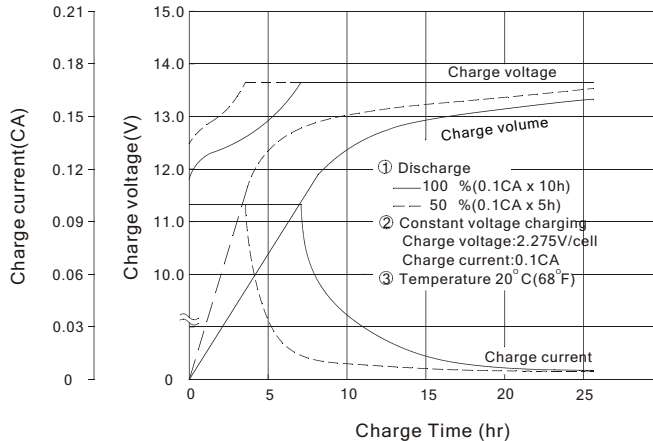
### PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (600mA to 10.50volts).....	12.0A.H.
10 Hour rate F.V.(1.75V/cell) (1140mA to 10.50volts) .....	11.4A.H.
5 Hour rate F.V.(1.75V/cell) (2040mA to 10.50volts) .....	10.2A.H.
30 Min rate F.V.(1.30V/cell) (12000mA to 7.80volts).....	6.0A.H.
Approximate Weight.....	4100g(9.04lbs.)
Terminal	
Standard.....	Type T2
Optional.....	Type T1
Internal Resistance (Fully Charged Battery).....	<18m Ω
Maximum Discharge Current For 5 sec.(A).....	180A
Maximum Charge Current(A).....	3.6A
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.....	98/3.86
Container Height ±1.5mm.....	94/3.70
Total Height   ±1.5mm.....	98/3.86
Application.....	Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

## BPL12-12 Battery discharge characteristics (25°C/77°F)



## BATTERY CHARGING CHARACTERISTICS (Typical example of charge characteristic for the standby use)



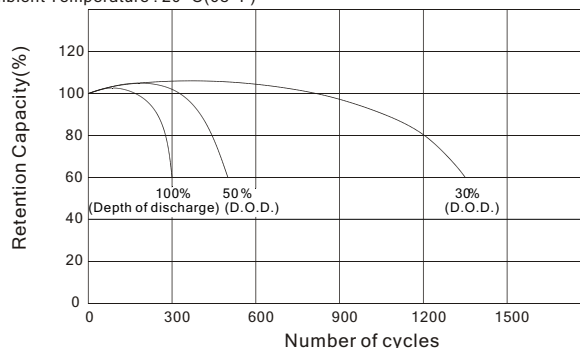
## Charging Procedure

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	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	

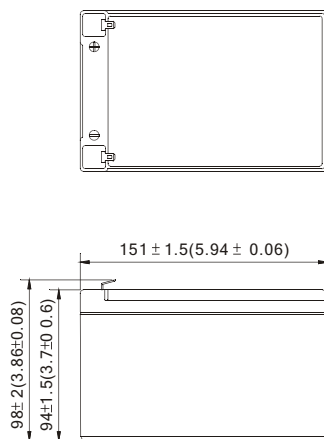
\*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

## Battery Life Characteristics of Cyclic Use

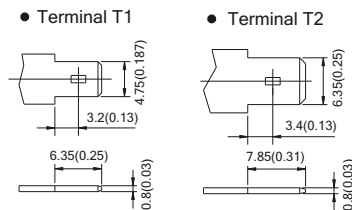
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7v/cell)  
 Charging Current : 0.1C Amp  
 Charging Volume : 120% OF Discharge Capacity  
 Ambient Temperature : 20°C (68°F)



## OUTER DIMENSIONS mm(inch)



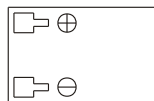
## TERMINAL TYPE mm(inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	391	293.8	238.1	143.2	83.0	35.0	24.1	13.48	7.05
10.50V	452	381.3	249.0	148.6	85.5	35.7	24.5	13.68	7.20
10.20V	480	329.8	256.7	152.0	87.0	36.0	24.6	13.75	7.23
9.90V	502	337.7	262.6	154.2	88.0	36.3	24.7	13.80	7.25
9.60V	518	344.4	267.8	155.7	88.9	36.5	24.8	13.80	7.25

## TERMINAL POSITION



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