



# Maintenance-Free Rechargeable Sealed Lead-Acid Battery



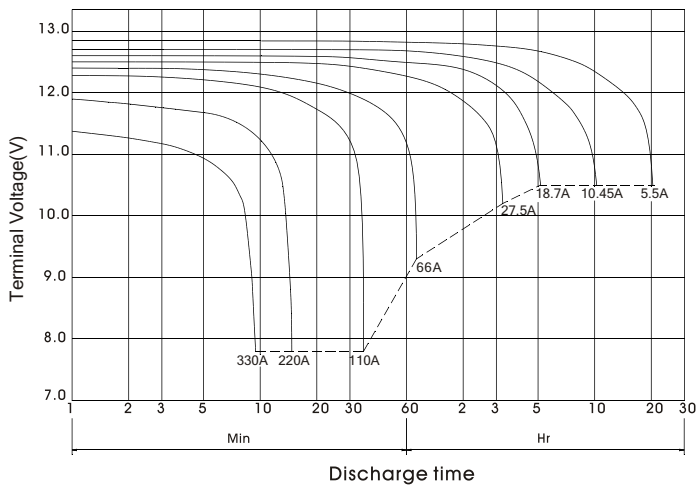
## BPL110-12

The battery is constructed by plates, separators, safety valves, flame arrestors 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.

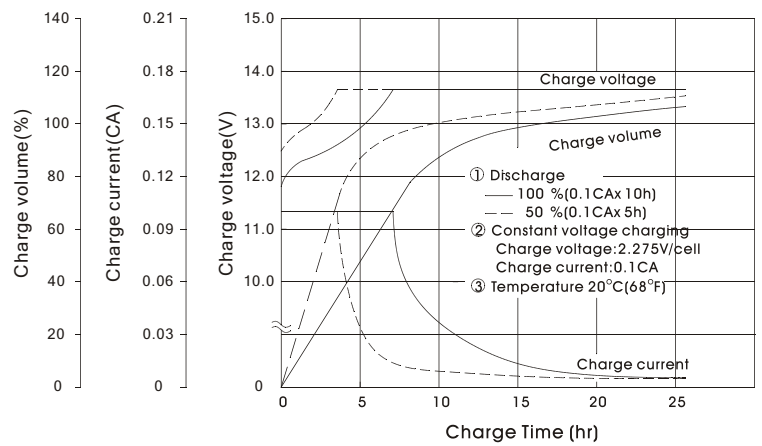
### PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (5.50A to 10.50volts) .....	110A.H.
10 Hour rate F.V.(1.75V/cell) (10.45A to 10.50volts) .....	104.5A.H.
5 Hour rate F.V.(1.75V/cell) (18.70A to 10.50volts) .....	93.5A.H.
1 Hour rate F.V.(1.55V/cell) (66.00A to 9.30volts) .....	66.0A.H.
Approximate Weight.....	40.0kg(88.2lbs.)
Terminal	
Standard.....	Type B4
Optional.....	Type I2
Internal Resistance (Fully Charged Battery).....	<4m Ω
Maximum Discharge Current For 5 sec.(A).....	1100A
Maximum Charge Current(A).....	33.0A
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)
Design Life : 10 years for standby use at 20°C	
Case.....	ABS
Dimension(mm/inch)	
Length           ±2mm.....	407/16.02
Width           ±2mm.....	173/6.81
Container Height ±2mm.....	210/8.27
Total Height   ±2mm.....	239/9.41
Application.....	UPS, TELCOM, Golf-Carts.

## BPL110-12 Battery discharge characteristics (25°C/77°F)



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



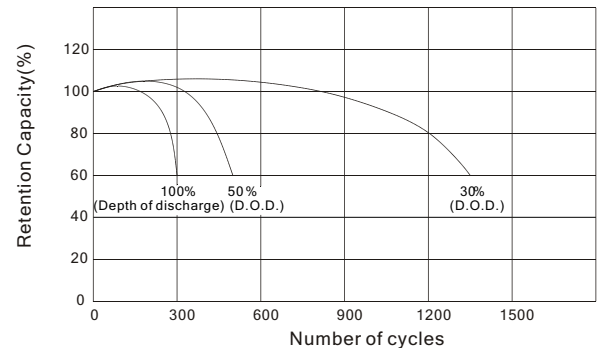
### Charging Procedure

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) (32~104°F)
					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	

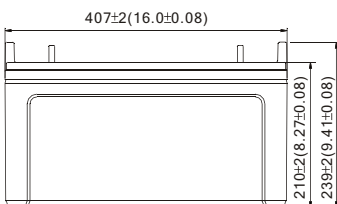
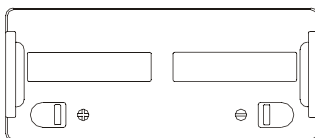
\*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

### 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)

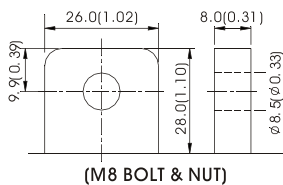


### OUTER DIMENSIONS mm(inch)

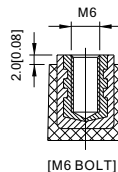


### TERMINAL TYPE mm(inch)

● Terminal B4



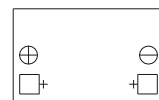
● Terminal I2



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	3322.1	2595.5	2181.2	1313.2	760.5	320.5	221.5	123.52	64.58
10.50V	3846.4	2812.1	2283.3	1362.5	782.5	326.8	224.7	125.40	66.00
10.20V	4080.0	2913.5	2352.5	1392.3	796.7	330.0	226.3	126.03	66.32
9.90V	4269.7	2983.2	2407.5	1412.7	807.7	333.2	227.8	126.35	66.47
9.60V	4400.3	3042.2	2454.5	1426.8	815.5	334.7	227.8	126.35	66.47

### TERMINAL POSITION



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