



# Maintenance-Free Rechargeable Sealed Lead-Acid Battery



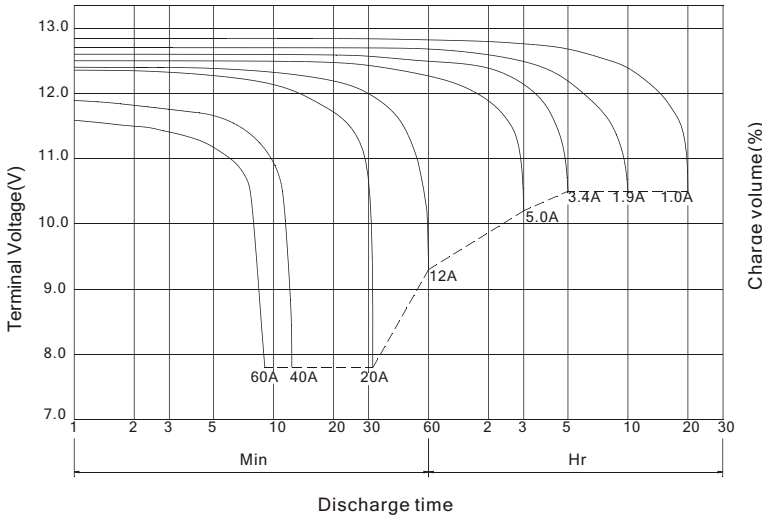
## BPL20-12

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.

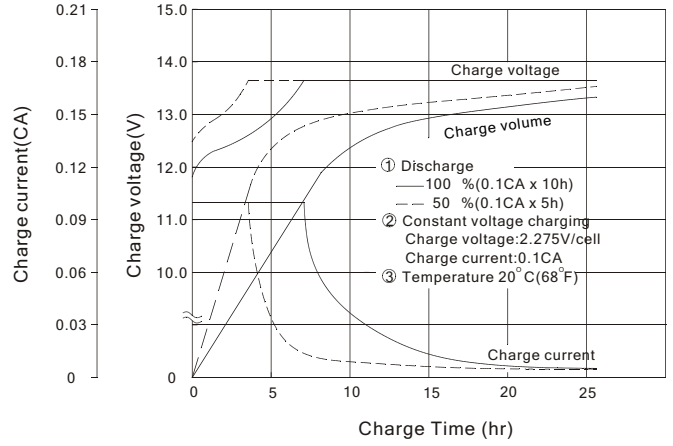
### PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (1000mA to 10.50volts).....	20.0A.H.
10 Hour rate F.V.(1.75V/cell) (1900mA to 10.50volts) .....	19.0A.H.
5 Hour rate F.V.(1.75V/cell) (3400mA to 10.50volts) .....	17.0A.H.
30 Min rate F.V.(1.30V/cell) (20000mA to 7.80volts).....	10.0A.H.
Approximate Weight.....	6450g(14.22lbs.)
Terminal	
Standard.....	Type B1
Optional.....	Type T2.I1
Internal Resistance (Fully Charged Battery).....	<11m Ω
Maximum Discharge Current For 5 sec.(A).....	300A
Maximum Charge Current(A).....	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.....	181/7.13
Width           ±1.5mm.....	76/2.99
Container Height ±1.5mm.....	166/6.54
Total Height   ±1.5mm.....	166/6.54
Application.....	Fishing Lights, Emergency Lights, Lawn Mowers, Video Camcorders(VCR).

## BPL20-12 Battery discharge characteristics (25°C/77°F)



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



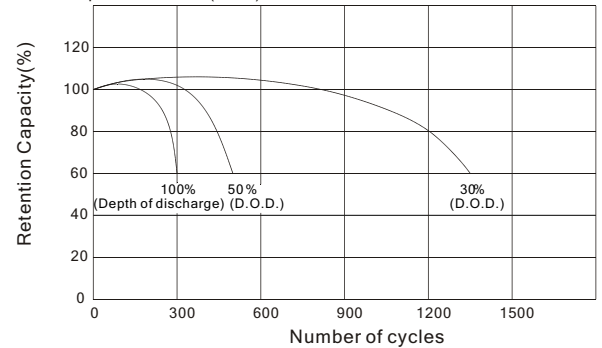
## Charging Procedure

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	

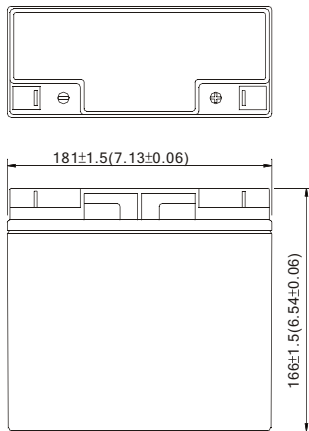
\*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

## Battery Life Characteristics of Cyclic Use

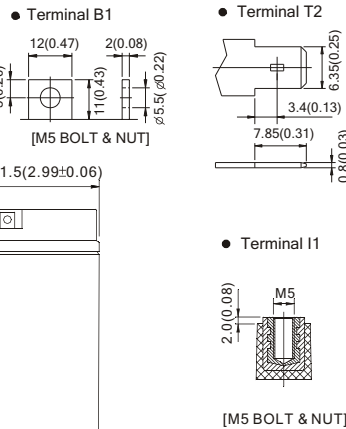
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7V/cell)  
 Charging Current : 0.1C Amp  
 Charging Volume : 120% OF Discharge Capacity  
 Ambient Temperature : 20°C (68°F)



## OUTER DIMENSIONS mm(inch)



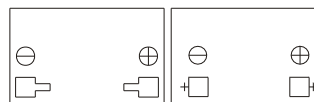
## TERMINAL TYPE mm(inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	652	490	397	239	138	58.2	40.2	22.46	11.74
10.50V	754	531	415	248	142	59.4	40.8	22.80	12.00
10.20V	800	550	428	253	145	60.0	41.2	22.92	12.06
9.90V	838	563	438	257	147	60.6	41.4	22.98	12.08
9.60V	862	574	446	259	148	60.8	41.4	22.98	12.08

## TERMINAL POSITION



**B.B. BATTERY CO., LTD.**

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