



Maintenance-Free Rechargeable Sealed Lead-Acid Battery



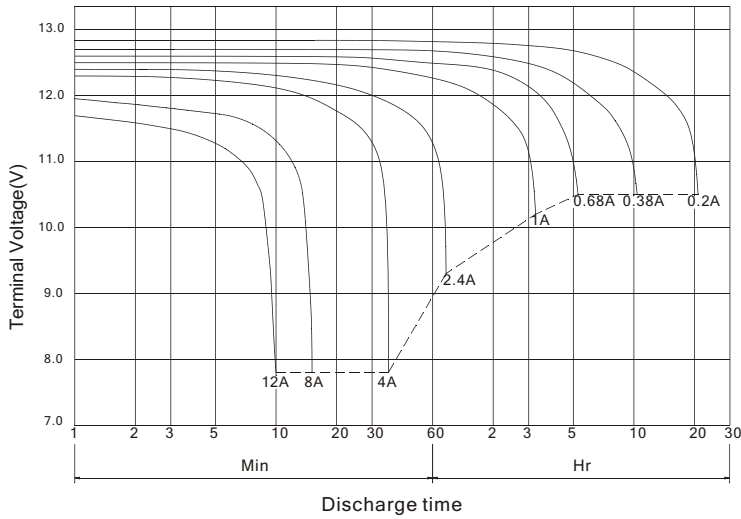
BP4-12

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

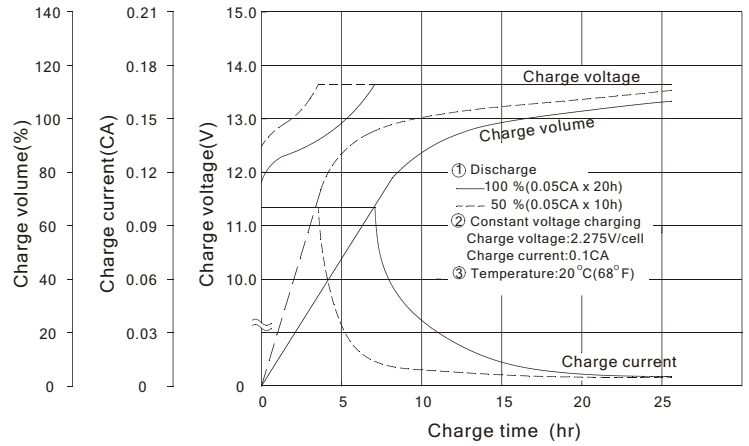
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 hour rate F.V.(1.75V/cell) (200mA to 10.50volts)	4.0A.H.
10 hour rate F.V.(1.75V/cell) (380mA to 10.50volts)	3.8A.H.
5 hour rate F.V.(1.75V/cell) (680mA to 10.50volts)	3.4A.H.
1 hour rate F.V.(1.55V/cell) (2400mA to 9.30volts).....	2.4A.H.
Approximate Weight.....	1670g(3.68lbs.)
Terminal	
Standard.....	Type T1
Optional.....	Type T2
Internal Resistance (Fully Charged Battery).....	<45mΩ
Maximum Discharge Current For 5 sec.(A).....	60A
Maximum Charge Current(A).....	1.2A
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.....	90/3.54
Width ±1.5mm.....	70/2.76
Container Height ±1.5mm.....	102/4.02
Total Height ±2mm.....	106/4.17
Application.....	Electronic Doorbells, Toy-Cars, Fans, UPS.

BP4-12 Battery discharge characteristics (25°C/77°F)



BATTERY CHARGING CHARACTERISTICS

(Typical example of the charge characteristics for the standby use)

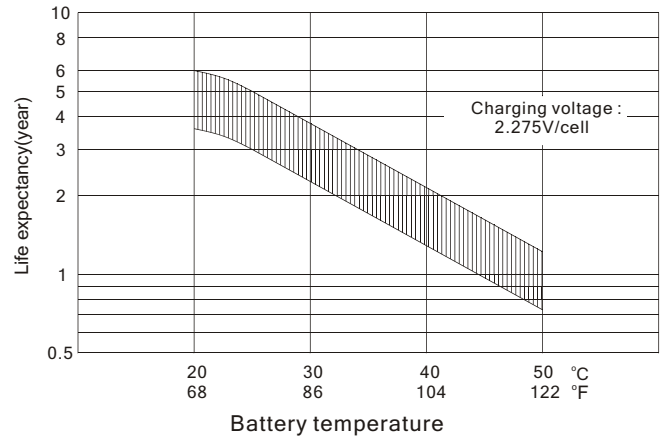


Charging Procedure

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)
					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					16	10	

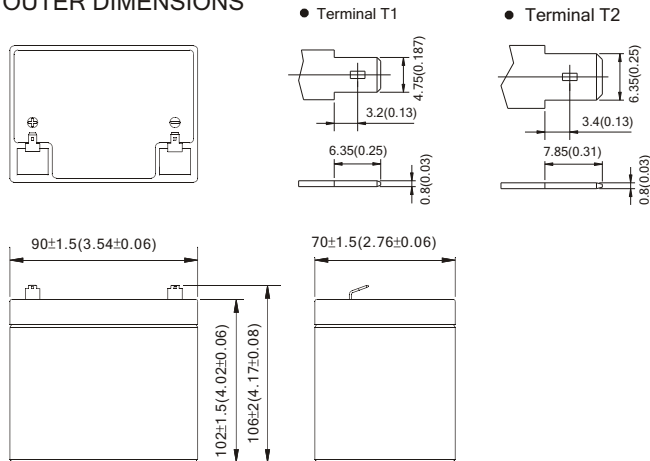
*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

Effect of Temperature on Long Term Float Life



TERMINAL TYPE mm(inch)

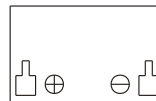
OUTER DIMENSIONS



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

Final Voltage	Discharge time									
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr	
10.80V	144.6	106.5	85.3	50.8	29.11	11.66	8.04	4.49	2.35	
10.50V	167.4	115.3	89.2	52.7	29.99	11.89	8.16	4.56	2.40	
10.20V	177.9	119.5	92.0	53.9	30.52	12.00	8.20	4.58	2.41	
9.90V	185.8	122.4	94.1	54.7	30.89	12.08	8.23	4.60	2.42	
9.60V	192.0	124.8	96.0	55.2	31.20	12.16	8.26	4.60	2.42	

TERMINAL POSITION



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