



Valve Regulated Lead-Acid Rechargeable Battery



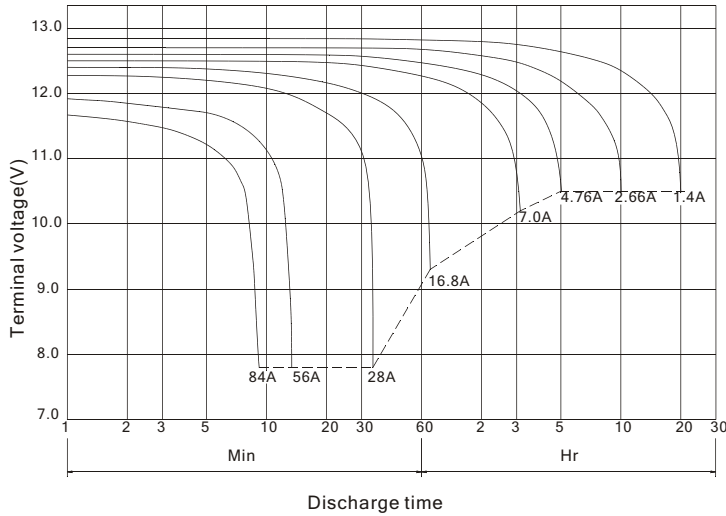
BPL28-12

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 (but upside-down should be avoided) without leakage.

PERFORMANCE SPECIFICATIONS

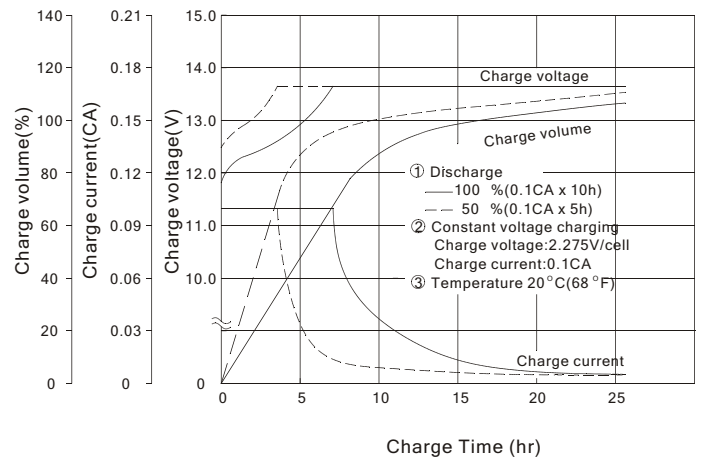
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (1400mA to 10.5volts)	28.0Ah
10 Hour rate F.V.(1.75V/cell) (2660mA to 10.5volts).....	26.6Ah
5 Hour rate F.V.(1.75V/cell) (4760mA to 10.5volts)	23.8Ah
30 Min rate F.V.(1.30V/cell) (28000mA to 7.80volts).....	14.0Ah
Approximate Weight.....	9700g(21.39lbs.)
Terminal	
Standard.....	Type B1
Optional.....	Type T2.I1
Terminal Hardware Initial Torque.....	B1(2.5 Nm ± 5%), I1(4.0 Nm ± 5%)
Internal Resistance (Fully Charged Battery).....	≤ 10m Ω
Maximum Discharge Current For 5 sec.(A).....	420A
Maximum Charge Current(A).....	8.4A
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: UL 94-HB
Dimension(mm/inch)	
Length ±1.5mm.....	175/6.89
Width ±1.5mm.....	166/6.54
Container Height ±1.5mm.....	125/4.92
Total Height ±1.5mm.....	125/4.92
Application.....	Wheelchairs, Lawn Mowers, Electronic Medical Equipment, Golf-Carts.

BPL28-12 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

(Typical example of charge characteristic for the standby use)

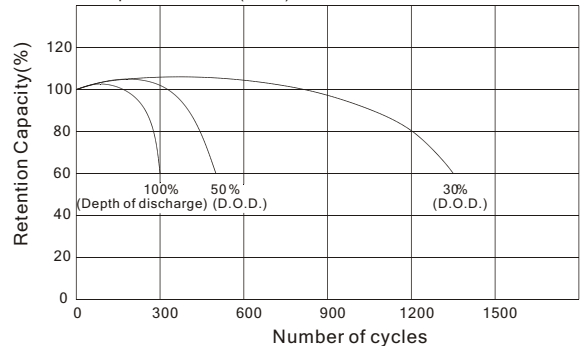


Charging Procedure

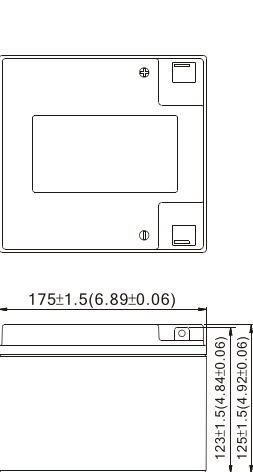
Application	Charging method	Charging Voltage at 20 °C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20 °C (h)		Temp (°C) 0~40 (32~104°F)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	
For cycle service					16	10	

Battery Life Characteristics of Cyclic Use

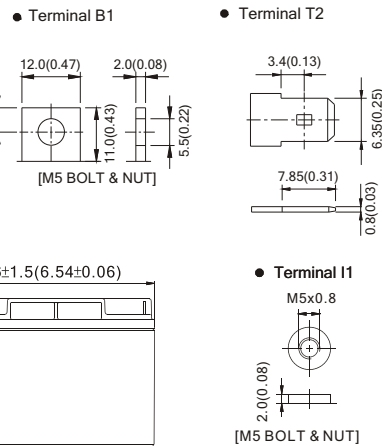
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7V/cell)
Charging Current : 0.1C Amp
Charging Voltage : 2.275V/cell
Ambient Temperature : 20 °C (68 °F)



OUTER DIMENSIONS



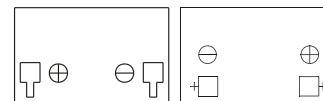
TERMINAL TYPE



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	912	685.6	555.2	334.0	193.6	81.6	56.4	31.44	16.44
10.50V	1056	742.8	581.2	346.8	199.2	83.2	57.2	31.92	16.80
10.20V	1120	769.6	598.8	354.4	202.8	84.0	57.6	32.08	16.88
9.90V	1172	788.0	612.8	359.6	205.6	84.8	58.0	32.16	16.92
9.60V	1208	803.6	624.8	363.2	207.6	85.2	58.0	32.16	16.92

TERMINAL POSITION



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