Valve Regulated Lead-Acid Rechargeable Battery

BPS40-12

The battery is composed of positive plates, negative plates. AGM separators. Electrolyte is contained in absorbent glass-mat separators, safety valves, gas-tight ABS cover and container. Leak -proof regardless of which direction or position (but upside-down should be avoided) the battery is being used.

PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....12 volts(6cells in series)

Nominal Capacity(Ah)

20 hour rate F.V.(1.75V/cell) (2000mA to 10.50volts) 40Ah

10 hour rate F.V.(1.75V/cell) (3800mA to 10.50volts) 38Ah

5 hour rate F.V.(1.75V/cell) (6800mA to 10.50volts) 34Ah

1 hour rate F.V.(1.55V/cell) (24000mA to 9.30volts).....24Ah

Approximate Weight.....14300g(31.53lbs.)

Terminal

Standard.....Type B2

Optional.....Type I1, I2

Terminal Hardware Initial Torque.....B2,I1(4.0 Nm ± 5%), I2(5.5 Nm ± 5%)

Internal Resistance (Fully Charged Battery).....≦8m Ω

Maximum Discharge Current For 5 sec.(A).....600A

Maximum Charge Current(A).....12A

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: UL 94-HB

Dimension(mm/inch)

Length ±1.5mm.....197/7.76

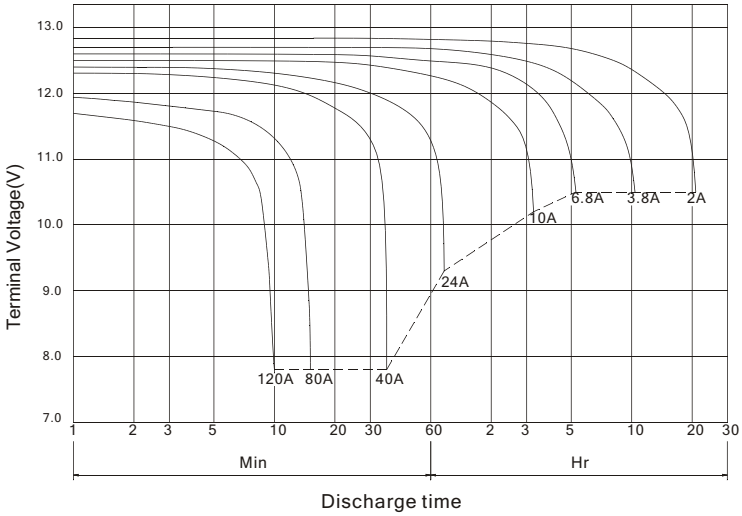
Width ±1.5mm.....165/6.50

Container Height ±1.5mm.....171/6.73

Total Height ±1.5mm.....171/6.73

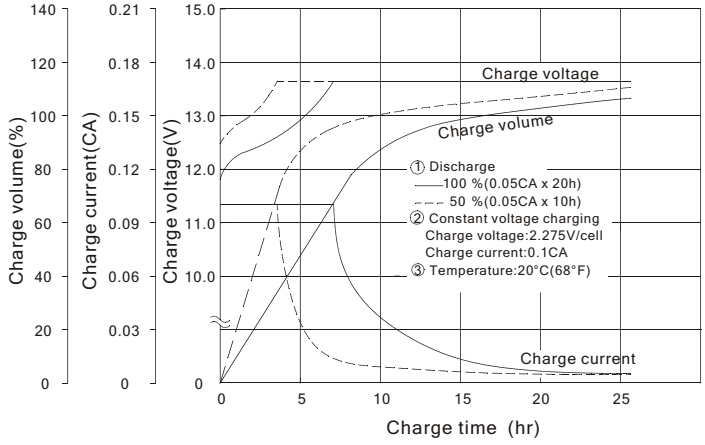
Application.....Wheelchairs, Lawn Mowers, Electronic Medical Equipment, UPS, Golf-Carts.

BPS40-12 Battery discharge characteristics (25°C/77°F)

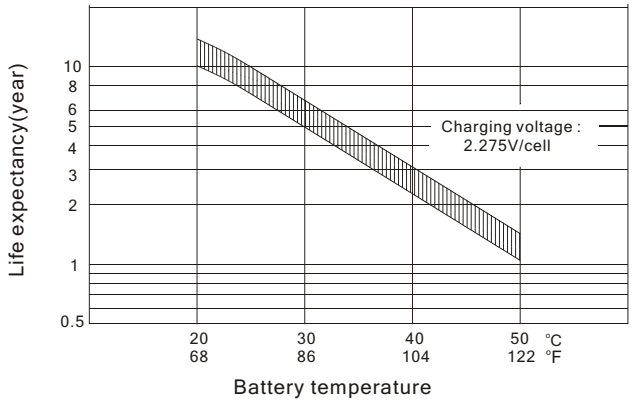


Battery Charging Characteristics

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



Effect of Temperature on Long Term Float Life

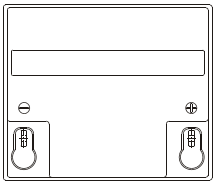


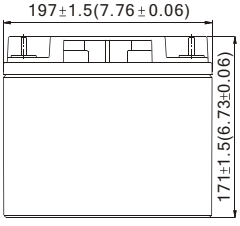
Charging Procedure

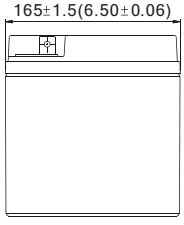
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (with current restriction)	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service		2.40~2.50	-4	0.3	16	10	

OUTER DIMENSIONS

mm(inch)



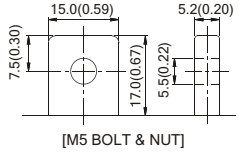




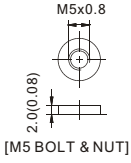
TERMINAL TYPE

mm(inch)

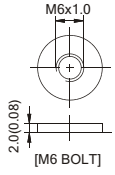
● Terminal B2



● Terminal I1



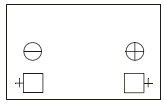
● Terminal I2



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
	Battery output power(W)								
10.80V	1446.2	1064.6	853.2	507.6	291.12	116.59	80.39	44.93	23.64
10.50V	1673.9	1153.4	892.4	526.9	299.86	118.93	81.60	45.60	24.00
10.20V	1778.5	1194.9	920.0	539.0	305.25	120.00	82.05	45.83	24.12
9.90V	1858.4	1223.5	941.2	546.5	308.91	120.83	82.33	45.96	24.19
9.60V	1920.0	1248.0	960.0	552.0	312.00	121.56	82.58	45.96	24.19

TERMINAL POSITION



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