Valve Regulated Lead-Acid Rechargeable Battery

BPS180-6

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).....6 volts(3cells in series)

Nominal Capacity(Ah)

- 20 hour rate F.V.(1.75V/cell) (9.00A to 5.25volts) 180Ah
- 10 hour rate F.V.(1.75V/cell) (17.1A to 5.25volts) 171Ah
- 5 hour rate F.V.(1.75V/cell) (30.6A to 5.25volts) 153Ah
- 1 hour rate F.V.(1.55V/cell) (108A to 4.65volts).....108Ah

Approximate Weight..... 28.8Kg(63.5lbs.)

Terminal

- Standard.....Type B9
- Optional.....Type I3

Terminal Hardware Initial Torque.....10.0 Nm ± 5%

Internal Resistance (Fully Charged Battery).....≦2.5mΩ

Maximum Discharge Current For 5 sec.(A).....1800A

Maximum Charge Current(A).....54A

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

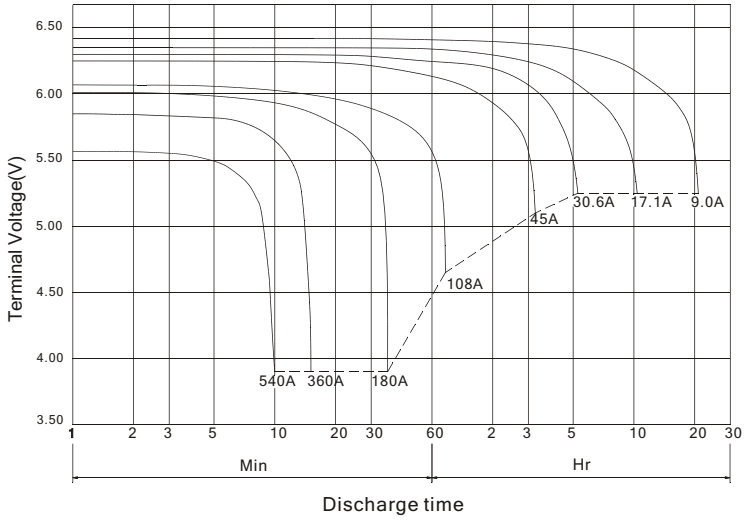
Case.....ABS: UL 94-HB

Dimension(mm/inch)

Length	±2mm	260/10.24
Width	±2mm	171/6.73
Container Height	±2mm	220/8.66
Total Height	±2mm	244/9.61

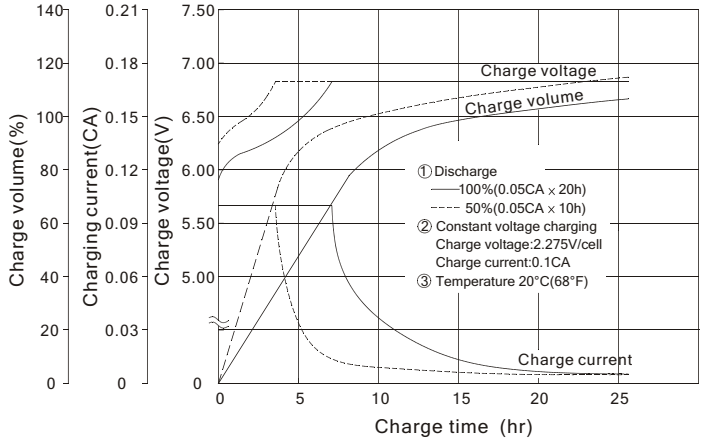
Application.....UPS, Telecom

BPS180-6 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

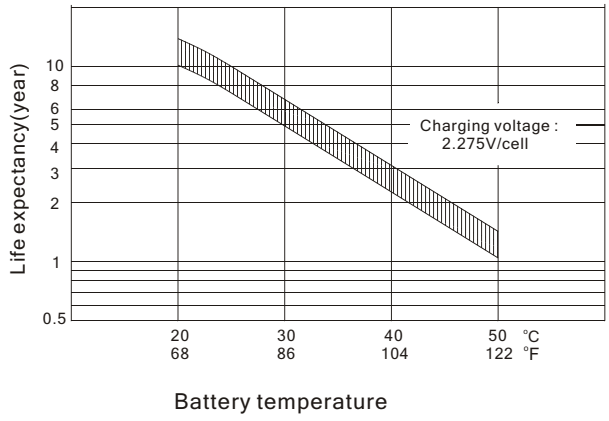
(Typical example of the charge characteristic for the standby use)



Charging Procedure

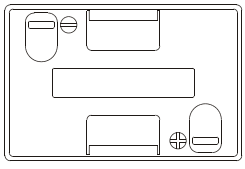
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging (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	

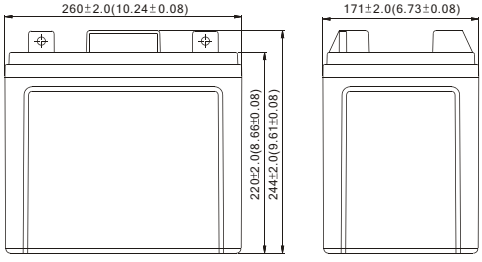
Effect of temperature on long term float life



OUTER DIMENSIONS

mm(inch)

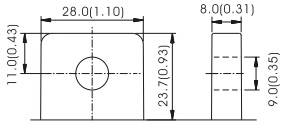




TERMINAL TYPE

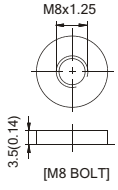
mm(inch)

● Terminal B9



(M8 BOLT & NUT)

● Terminal I3

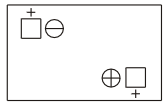


Constant power discharge characteristics at 25°C/77°F

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
	Battery output power(W)								
5.40V	2382	2010	1732	1165	655.1	262.3	180.9	101.1	53.33
5.25V	2700	2100	1812	1209	674.6	267.6	183.6	102.6	54.00
5.10V	2979	2291	1868	1237	686.8	270.0	184.6	103.1	54.27
4.95V	3113	2346	1911	1254	695.1	271.9	185.3	103.4	54.41
4.80V	3216	2393	1949	1267	702.0	273.5	185.8	103.4	54.41

* Discharge power over 2700W/Discharge current over 500 Amps is not recommended.

TERMINAL POSITION



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All data shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.