



Valve Regulated Lead-Acid Rechargeable Battery



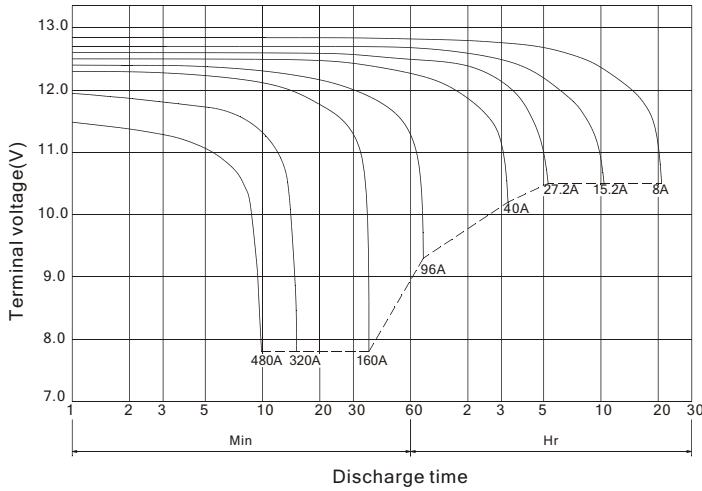
BPS160-12

The battery is constructed by plates, separators, safety valves, flame arrestor 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.

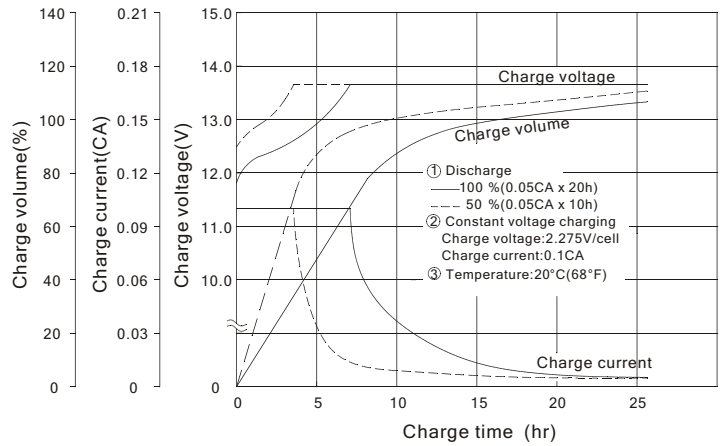
PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (8.00A to 10.50volts)	160Ah
10 Hour rate F.V.(1.75V/cell) (15.20A to 10.50volts)	152Ah
5 Hour rate F.V.(1.75V/cell) (27.20A to 10.50volts)	136Ah
1 Hour rate F.V.(1.55V/cell) (96.00A to 9.30volts)	96Ah
Approximate Weight.....	51.2kg(112.9lbs)
Terminal	
Standard.....	Type B9
Optional.....	Type I3
Terminal Hardware Initial Torque.....	10.0 Nm \pm 5%
Internal Resistance (Fully Charged Battery).....	\leq 2.7m Ω
Maximum Discharge Current For 5 sec.(A).....	1600A
Maximum Charge Current(A).....	48A
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)
Design Life : 10 years for standby use at 20°C	
Case.....	ABS: UL 94-HB
Dimension(mm/inch)	
Length \pm 2mm.....	483/19.02
Width \pm 2mm.....	171/6.73
Container Height \pm 2mm.....	240/9.45
Total Height \pm 2mm.....	240/9.45
Application.....	UPS, Telecom.

BPS160-12 Battery discharge characteristics (25°C/77°F)



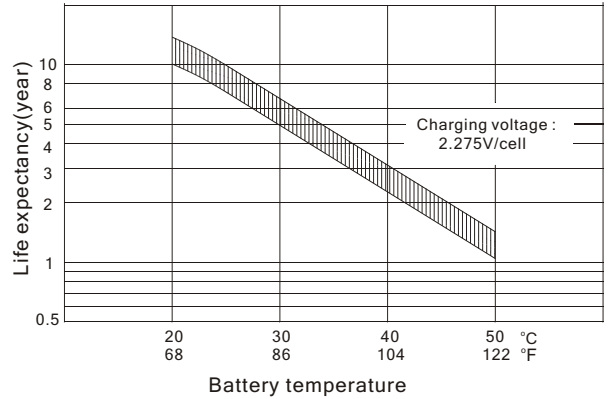
Battery Charging Characteristics (Typical example of the charge characteristics for the standby use)



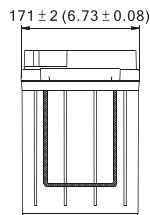
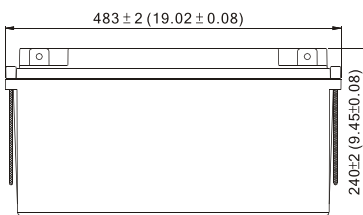
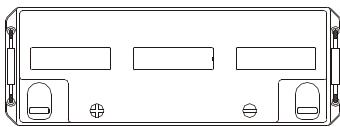
Charging Procedure

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		2.40~2.50	-4	0.3	16	10	

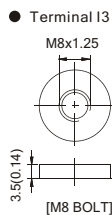
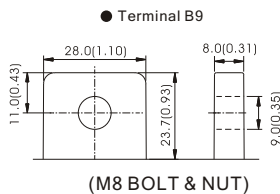
Effect of Temperature on Long Term Float Life



OUTER DIMENSIONS mm(inch)



TERMINAL TYPE mm(inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
1.80V	4527	3526	2933	2030	1165	466	322	180	94.8
1.75V	5247	3820	3068	2107	1199	476	326	182	96.0
1.70V	5575	3958	3163	2155	1221	480	328	183	96.5
1.65V	5825	4053	3235	2185	1236	483	329	184	96.7
1.60V	6019	4134	3300	2208	1248	486	330	184	96.7

TERMINAL POSITION



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