



Valve Regulated Lead-Acid Rechargeable Battery



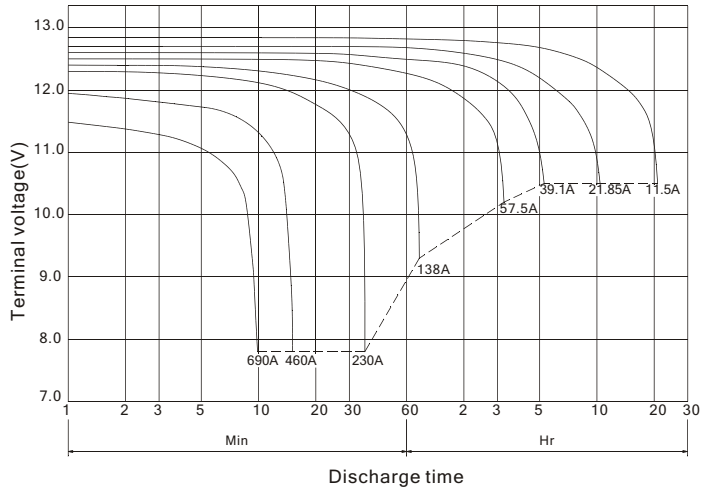
BPS230-12

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.

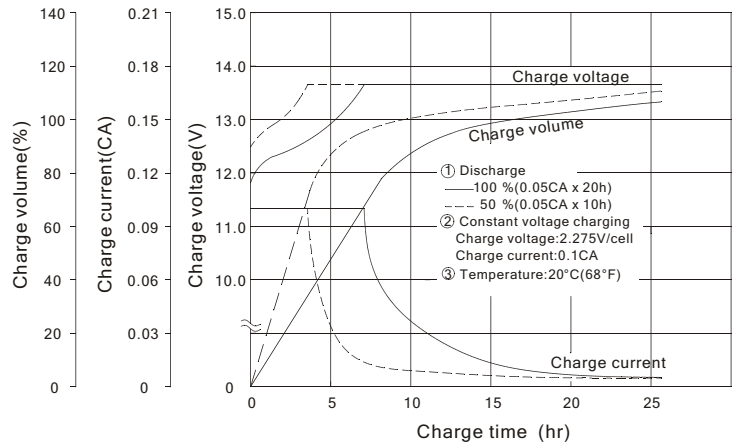
PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (11.50A to 10.50volts)	230.0Ah
10 Hour rate F.V.(1.75V/cell) (21.85A to 10.50volts)	218.5Ah
5 Hour rate F.V.(1.75V/cell) (39.10A to 10.50volts)	195.5Ah
1 Hour rate F.V.(1.55V/cell) (138.0A to 9.30volts)	138.0Ah
Approximate Weight.....	72.5kg(159.8lbs)
Terminal	
Standard.....	Type B9
Optional.....	Type I3
Terminal Hardware Initial Torque.....	10.0 Nm \pm 5%
Internal Resistance (Fully Charged Battery).....	\leq 2.5m Ω
Maximum Discharge Current For 5 sec.(A).....	2300A
Maximum Charge Current(A).....	69A
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.....	522/20.55
Width \pm 2mm.....	240/9.45
Container Height \pm 2mm.....	216/8.50
Total Height \pm 2mm.....	240/9.45
Application.....	UPS, Telecom.

BPS230-12 Battery discharge characteristics (25°C/77°F)



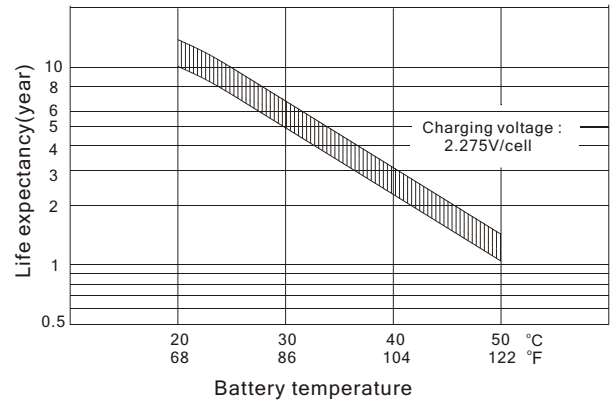
Battery Charging Characteristics (Typical example of the charge characteristics for the standby use)



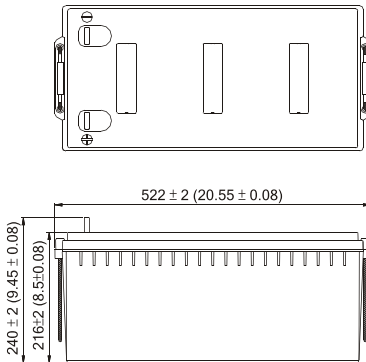
Charging Procedure

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	

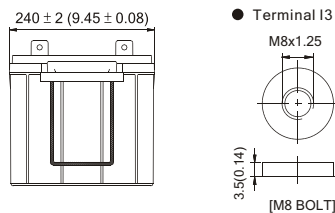
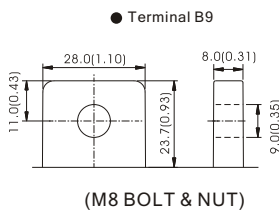
Effect of Temperature on Long Term Float Life



OUTER DIMENSIONS mm(inch)



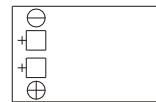
TERMINAL TYPE mm(inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	6146.7	5149.6	4282.7	2917.9	1674.1	670.3	462.3	258.3	135.9
10.50V	7113.3	5578.2	4480.4	3029.3	1724.0	683.8	469.2	262.2	138.0
10.20V	7557.7	5779.8	4618.3	3098.3	1755.2	690.0	471.8	263.5	138.7
9.90V	7897.7	5918.1	4724.5	3141.1	1776.3	694.9	473.5	264.2	139.1
9.60V	8160.0	6037.0	4819.0	3174.0	1794.0	698.9	474.8	264.2	139.1

TERMINAL POSITION



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