



Valve Regulated Lead-Acid Rechargeable Battery



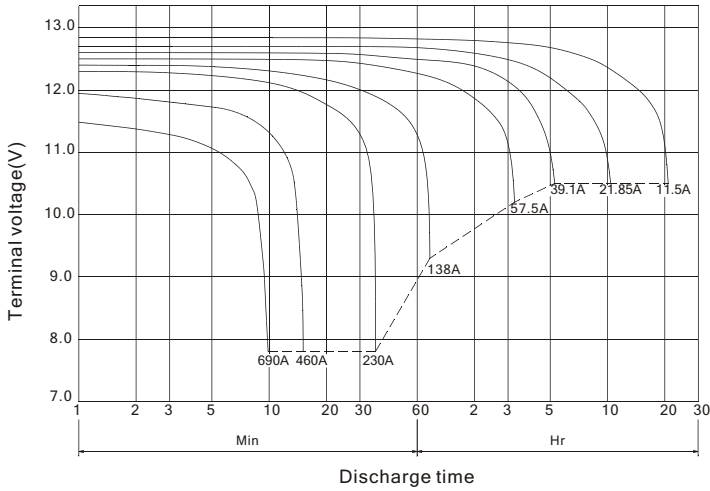
BP230-12

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 without leakage.

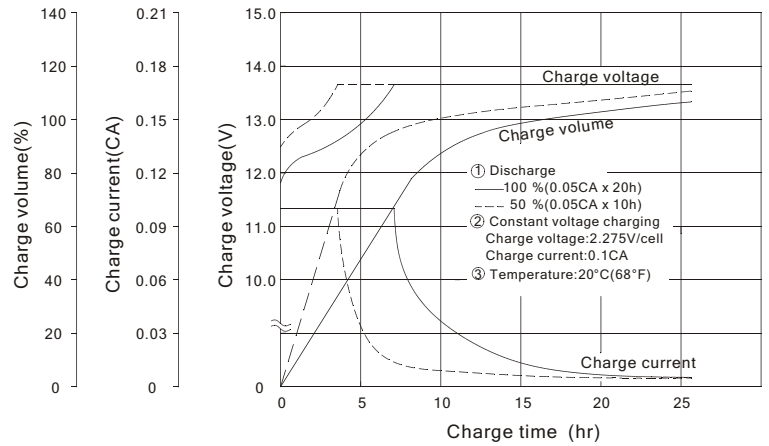
PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (11.50A to 10.50volts)	230.0A.H.
10 Hour rate F.V.(1.75V/cell) (21.85A to 10.50volts)	218.5A.H.
5 Hour rate F.V.(1.75V/cell) (39.10A to 10.50volts)	195.5A.H.
1 Hour rate F.V.(1.55V/cell) (138.0A to 9.30volts)	138.0A.H.
Approximate Weight.....	72.5kg(159.8lbs)
Terminal	
Standard.....	Type B9
Optional.....	Type I3
Internal Resistance (Fully Charged Battery).....	<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)
Case.....	ABS
Dimension(mm/inch)	
Length ±2mm.....	522/20.55
Width ±2mm.....	240/9.45
Container Height ±2mm.....	216/8.50
Total Height ±2mm.....	240/9.45
Application.....	UPS,Telecom.

BP230-12 Battery discharge characteristics (25°C/77°F)



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

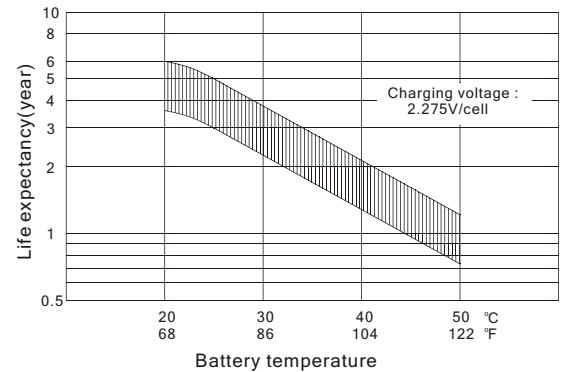


Charging Procedure

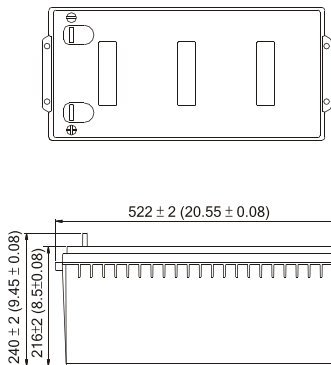
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging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

*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

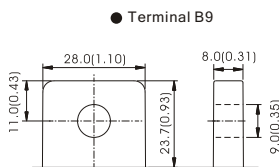
Effect of Temperature on Long Term Float Life



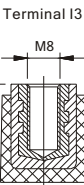
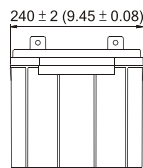
OUTER DIMENSIONS mm(inch)



TERMINAL TYPE mm(inch)



(M8 BOLT & NUT)

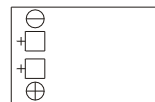


(M8 BOLT)

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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
1.80V	6146.7	5149.6	4282.7	2917.9	1674.1	670.3	462.3	258.3	135.9
1.75V	7113.3	5578.2	4480.4	3029.3	1724.0	683.8	469.2	262.2	138.0
1.70V	7557.7	5779.8	4618.3	3098.3	1755.2	690.0	471.8	263.5	138.7
1.65V	7897.7	5918.1	4724.5	3141.1	1776.3	694.9	473.5	264.2	139.1
1.60V	8160.0	6037.0	4819.0	3174.0	1794.0	698.9	474.8	264.2	139.1

TERMINAL POSITION



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