



# Valve Regulated Lead-Acid Rechargeable Battery

## BP12-12

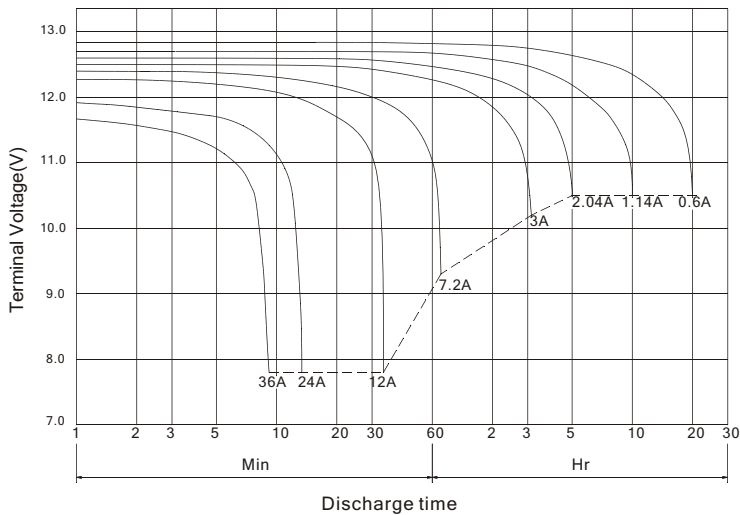


The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can be used in any direction and position without leakage.

### PERFORMANCE SPECIFICATIONS

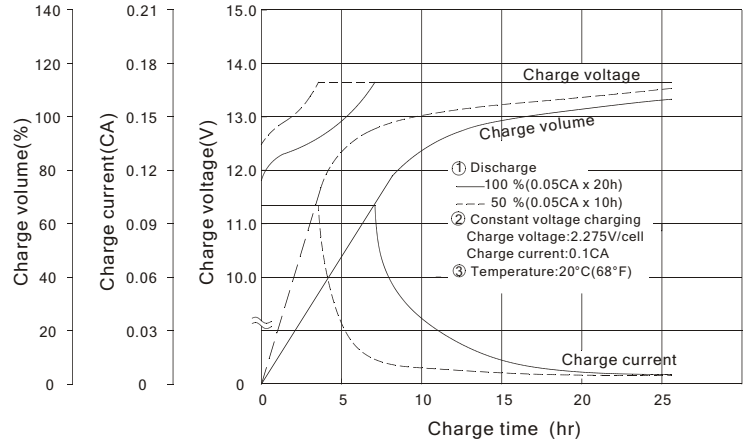
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 hour rate F.V.(1.75V/cell) (600mA to 10.50volts) .....	12Ah
10 hour rate F.V.(1.75V/cell) (1140mA to 10.50volts) .....	11.4Ah
5 hour rate F.V.(1.75V/cell) (2040mA to 10.50volts) .....	10.2Ah
1 hour rate F.V.(1.55V/cell) (7200mA to 9.30volts).....	7.2Ah
Approximate Weight.....	3940g(8.69lbs.)
Terminal	
Standard.....	Type T2
Optional.....	Type T1
Internal Resistance (Fully Charged Battery).....	<18m Ω
Maximum Discharge Current For 5 sec.(A).....	180A
Maximum Charge Current(A).....	3.6A
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.	
Case.....	ABS
Dimension(mm/inch)	
Length ±1.5mm.....	151/5.94
Width ±1.5mm.....	98/3.86
Container Height ±1.5mm.....	94/3.70
Total Height ±2mm.....	98/3.86
Application.....	UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

## BP12-12 Battery discharge characteristics (25°C/77°F)



## Battery Charging Characteristics

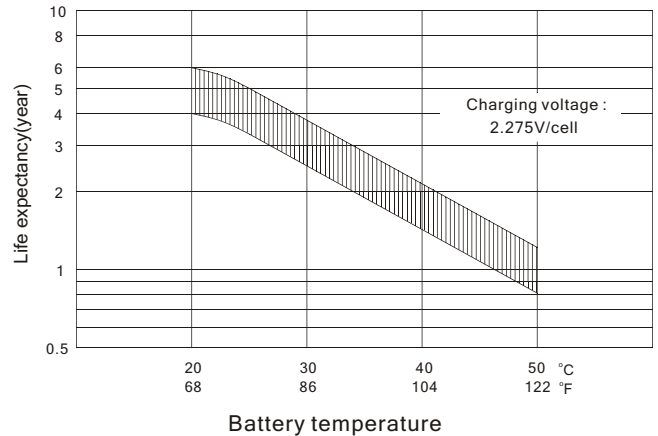
(Typical example of the charge characteristics for the standbyuse)



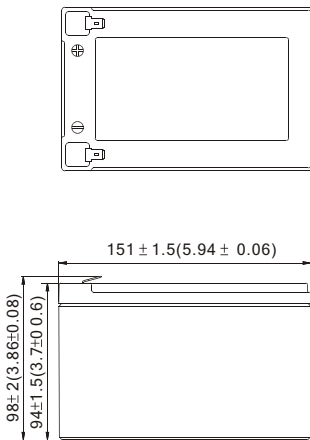
## Charging Procedure

Application	Charging method	Charging Voltage (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	

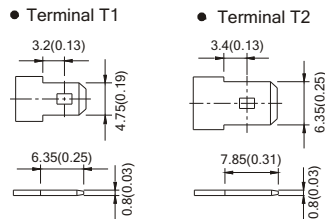
## Effect of temperature on long term float life



## OUTER DIMENSIONS



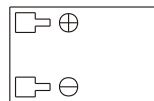
## TERMINAL TYPE mm(inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	433.9	319.4	256.0	152.3	87.3	35.0	24.1	13.48	7.09
10.50V	502.2	346.0	267.7	158.1	90.0	35.7	24.5	13.68	7.20
10.20V	533.6	358.5	276.0	161.7	91.6	36.0	24.6	13.75	7.24
9.90V	557.5	367.1	282.4	164.0	92.7	36.3	24.7	13.79	7.26
9.60V	576.0	374.4	288.0	165.6	93.6	36.5	24.8	13.79	7.26

## TERMINAL POSITION



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