



Valve Regulated Lead-Acid Rechargeable Battery



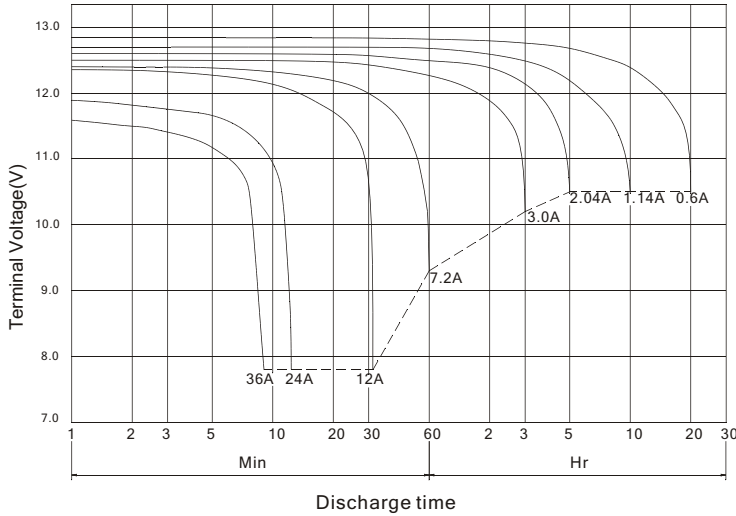
EP12-12

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

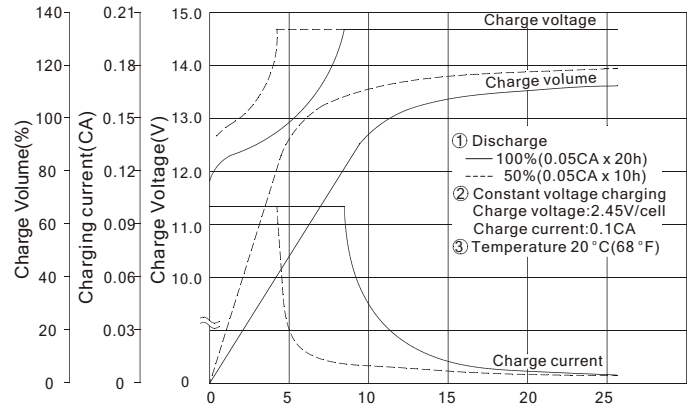
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (600mA to 10.50volts)	12.0Ah
10 Hour rate F.V.(1.75V/cell) (1140mA to 10.50volts)	11.4Ah
5 Hour rate F.V.(1.75V/cell) (2040mA to 10.50volts)	10.2Ah
30 Min rate F.V.(1.30V/cell) (12000mA to 7.80volts).....	6.0Ah
Approximate Weight.....	4200g(9.026lbs.)
Terminal	
Standard.....	Type T2
Optional.....	Type T1
Internal Resistance (Fully Charged Battery).....	<18mΩ
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.....	Electrical Bicycle, Toy-Cars, Power Packs, Fishing Lights.

EP12-12 Battery discharge characteristics (25 °C/77 °F)



Battery Charging Characteristics

(Typical example of the charge characteristics for the cycle use)

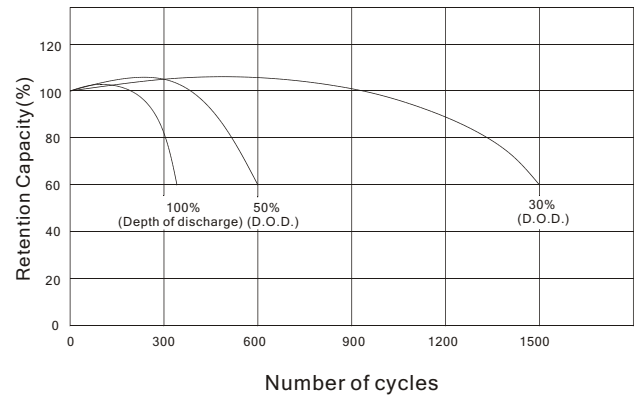


Charging Procedure

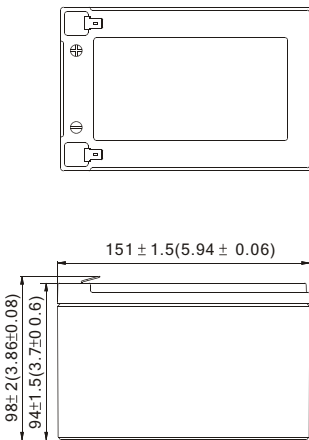
Application	Charging method	Charging Voltage at 20 °C (V/cell)	Temperature compensation coefficient of charging voltage (mV/ °C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20 °C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging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

Battery Life Characteristics of Cyclic Use

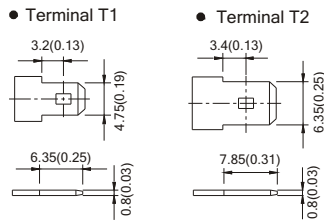
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7V/cell)
 Charging Current : 0.1C Amp
 Charging Volume : 120% OF Discharge Capacity
 Ambient Temperature : 20 °C (68 °F)



OUTER DIMENSIONS



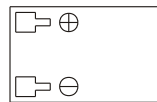
TERMINAL TYPE mm (inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	391	293.8	238.1	143.2	83.0	35.0	24.1	13.48	7.05
10.50V	452	318.3	249.0	148.6	85.5	35.7	24.5	13.68	7.20
10.20V	480	329.8	256.7	152.0	87.0	36.0	24.6	13.75	7.23
9.90V	502	337.7	262.6	154.2	88.0	36.3	24.7	13.80	7.25
9.60V	518	344.4	267.8	155.7	88.9	36.5	24.8	13.80	7.25

TERMINAL POSITION



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