



Valve Regulated Lead-Acid Rechargeable Battery



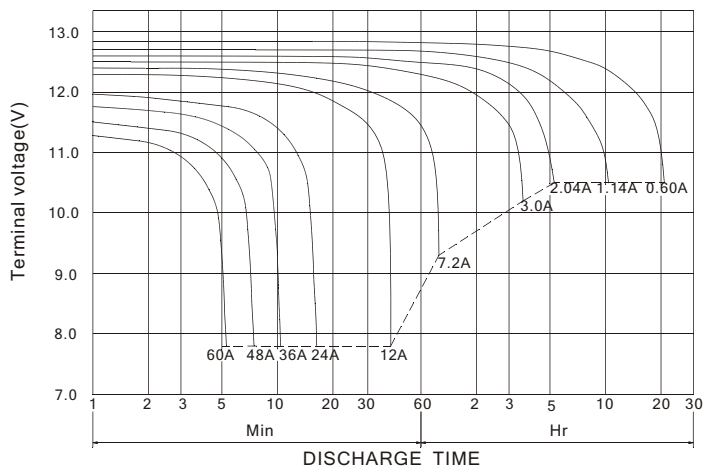
EVP12-12

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

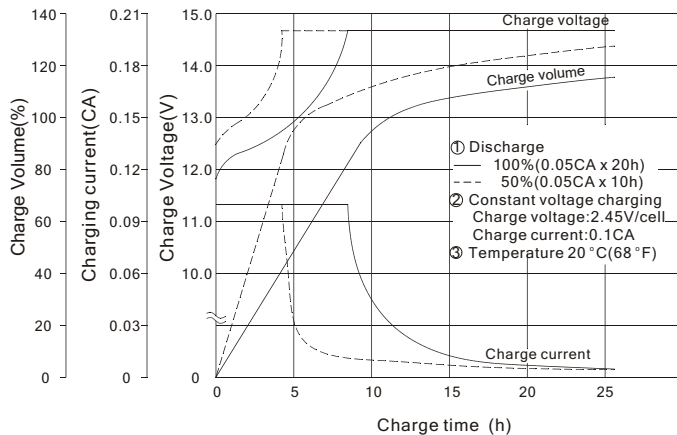
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (0.6A to 10.50volts)	12.0Ah
5 Hour rate F.V.(1.75V/cell) (2.04A to 10.50volts).....	10.2Ah
30 Min rate F.V.(1.30V/cell) (15.0A to 7.80volts).....	7.5Ah
Approximate Weight	4200g(9.26lbs.)
Terminal	
Standard.....	Type T2
Optional.....	Type T1
Internal Resistance (Fully Charged Battery).....	<12m 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.....	Electrical Bicycle, Fishing Lights.

EVP12-12 Battery discharge characteristics (25 °C/77 °F)



Battery Charging Characteristics

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

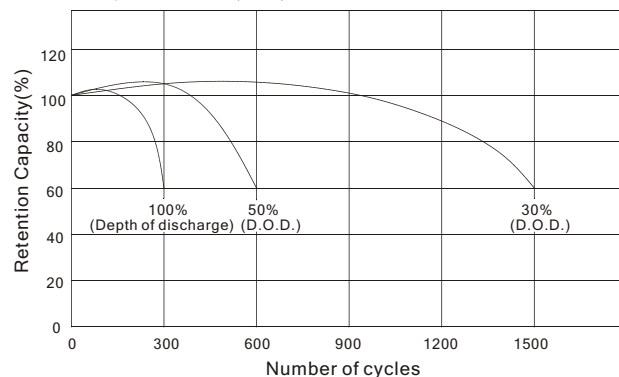


Charging Procedure

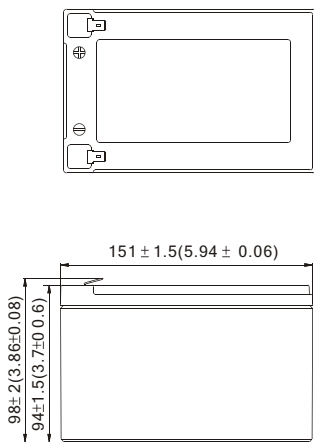
Application	Charging method	Charging Voltage at 20 °C (V/cell)	Temperature compensation coefficient of charging voltage (mV/ °C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20 °C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging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

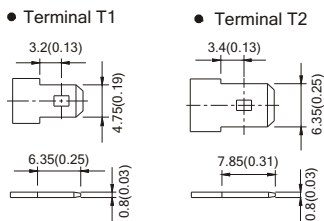
Testing Conditions : Discharge Current : 1C Amp (F.V. 1.60V/cell)
 Charging Current : 0.1C Amp
 Charging Volume : 120% of Discharge Capacity
 Ambient Temperature : 20 °C (68 °F)



OUTER DIMENSIONS



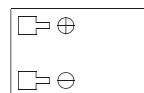
TERMINAL TYPE mm (inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	45Min	1Hr	3Hr	5Hr	10Hr
10.80V	515	365	276	165	117	94.1	38.2	24.1	13.4
10.50V	597	396	290	171	122	96.8	39.1	24.5	13.7
10.20V	634	412	299	175	124	99.0	39.4	24.7	13.8
9.90V	663	421	305	178	126	100.0	39.8	24.8	13.8
9.60V	685	428	311	180	127	100.8	40.0	24.9	13.8

TERMINAL POSITION



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