



Valve Regulated Lead-Acid Rechargeable Battery



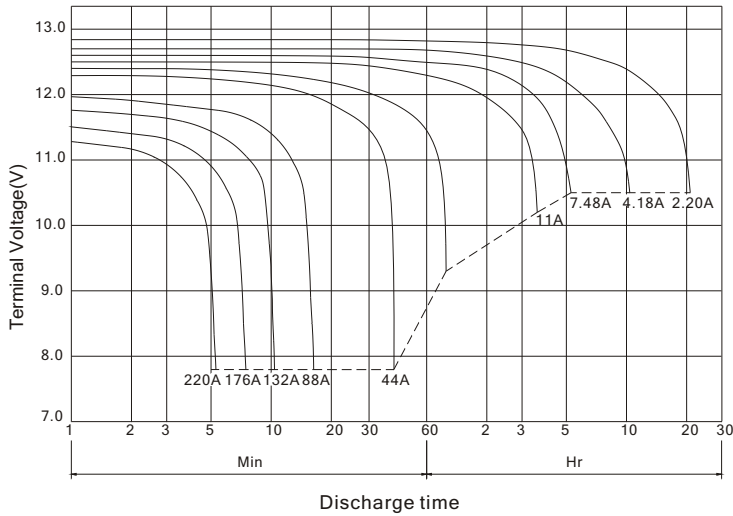
EVP44-12

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 (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) (2.2A to 10.50volts)	44.0Ah
5 Hour rate F.V.(1.75V/cell) (7.48A to 10.50volts)	37.4Ah
30 Min rate F.V.(1.30V/cell) (55.0A to 7.80volts).....	27.5Ah
Approximate Weight.....	15.5kg(34.181lbs.)
Terminal	
Standard.....	Type B2
Optional.....	Type I1, I2
Terminal Hardware Initial Torque.....	B2,I1(4.0 Nm $\pm$ 5%), I2(5.5 Nm $\pm$ 5%)
Internal Resistance (Fully Charged Battery).....	$\leq$ 5m Ω
Maximum Discharge Current For 5 sec.(A).....	600A
Maximum Charge Current(A).....	13.2A
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: UL 94-HB
Dimension(mm/inch)	
Length $\pm$ 1.5mm.....	197/7.76
Width $\pm$ 1.5mm.....	165/6.50
Container Height $\pm$ 1.5mm.....	171/6.73
Total Height $\pm$ 1.5mm.....	171/6.73
Application.....	Wheelchairs, Lawn Mowers, Electronic Medical Equipment, Golf-Carts.

EVP44-12 Battery discharge characteristics (25 °C/77 °F)

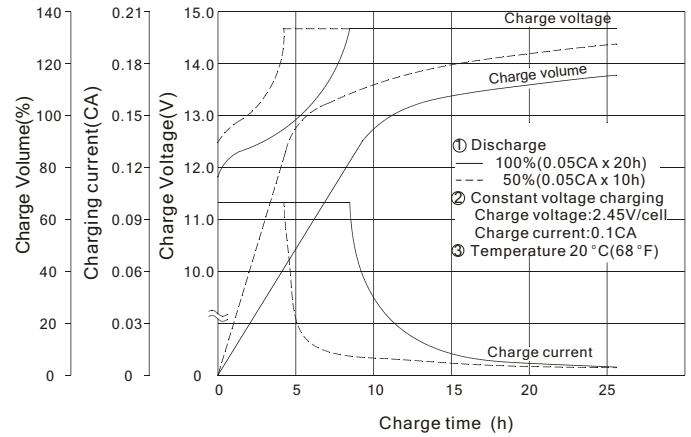


Charging Procedure

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	

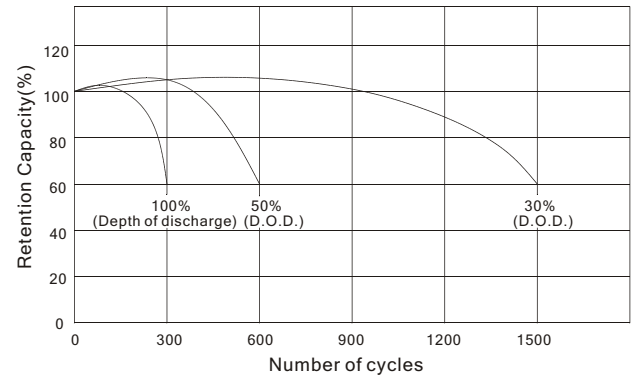
Battery Charging Characteristics

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



Battery Life Characteristics of Cyclic Use

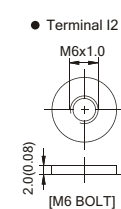
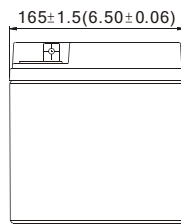
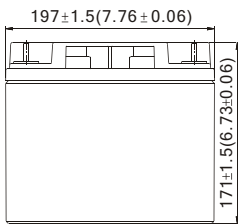
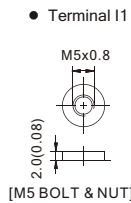
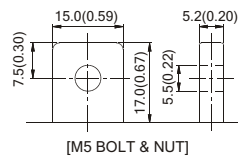
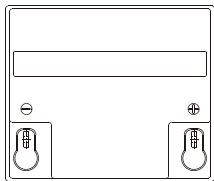
Testing Conditions : Discharge Current : 1C Amp (F.V. 1.60v/cell)
Charging Current : 0.1C Amp
Charging Volume : 120% of Discharge Capacity
Ambient Temperature : 20 °C (68 °F)



OUTER DIMENSIONS

TERMINAL TYPE

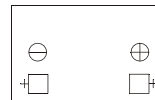
mm (inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	45Min	1Hr	3Hr	5Hr	10Hr
	Battery output power (W)								
10.80V	1890	1339	1013	605	428	345	140.0	88.5	49.3
10.50V	2188	1451	1064	628	446	355	143.5	90.0	50.3
10.20V	2325	1509	1095	642	455	363	144.6	90.7	50.6
9.90V	2430	1542	1120	652	461	367	146.0	91.1	50.7
9.60V	2510	1570	1140	660	466	370	146.5	91.4	50.7

TERMINAL POSITION



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