



Valve Regulated Lead-Acid Rechargeable Battery



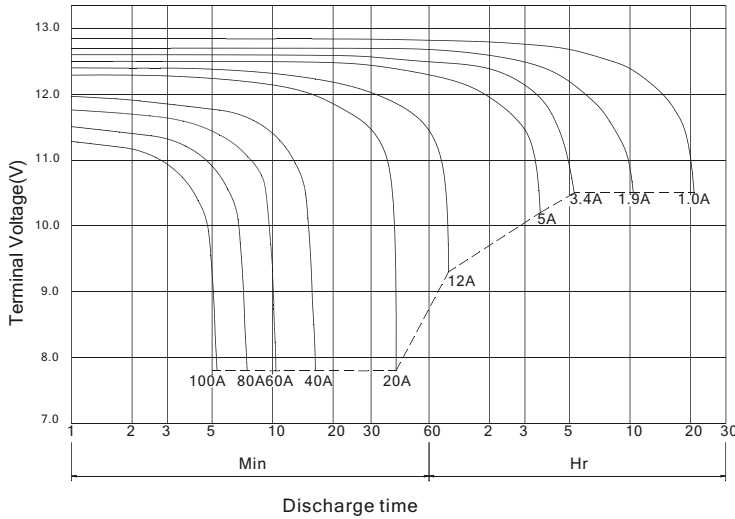
EVP20-12

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

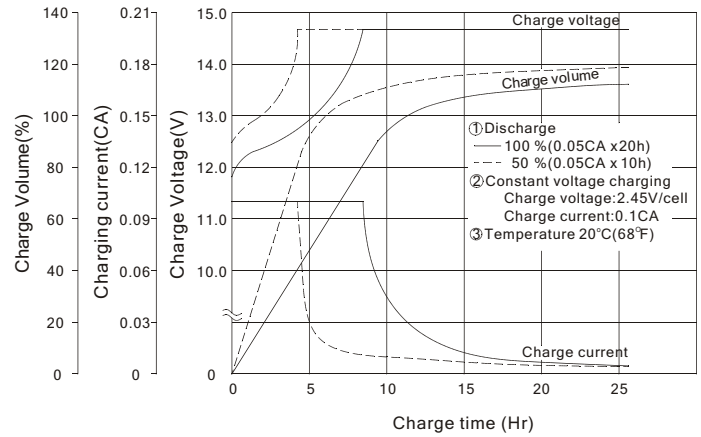
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (1.0A to 10.50volts)	20.0Ah
5 Hour rate F.V.(1.75V/cell) (3.4A to 10.50volts)	17.0Ah
30 Min rate F.V.(1.30V/cell) (25.0A to 7.80volts).....	12.5Ah
Approximate Weight	6600g(14.55lbs.)
Terminal	
Standard.....	Type B1
Optional.....	Type T2,I1
Terminal Hardware Initial Torque.....	B1(2.5 Nm $\pm$ 5%), I1(4.0 Nm $\pm$ 5%)
Internal Resistance (Fully Charged Battery).....	$\leq 9m\Omega$
Maximum Discharge Current For 5 sec.(A).....	300A
Maximum Charge Current(A).....	6.0A
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 $\pm 1.5mm$	181/7.13
Width $\pm 1.5mm$	76/2.99
Container Height $\pm 1.5mm$	166/6.54
Total Height $\pm 1.5mm$	166/6.54
Application.....	Fishing Lights, Emergency Lights, Lawn Mowers, Electrical Bicycle.

EVP20-12 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	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service	(with current restriction)	2.40~2.50	-4	0.3	16	10	

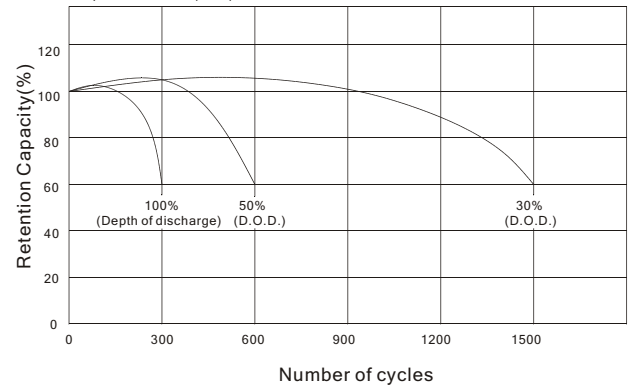
Battery Life Characteristics of Cyclic Use

Testing Conditions : Discharge Current : 1C Amp (F.V. 1.60v/cell)

Charging Current : 0.1C Amp

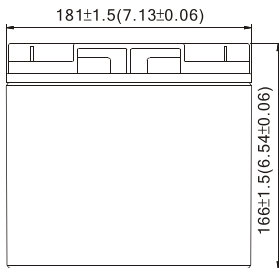
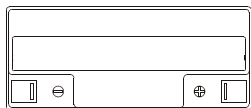
Charging Voltage : 120% OF Discharge Capacity

Ambient Temperature : 20°C (68°F)



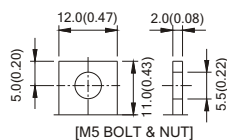
OUTER DIMENSIONS

mm(inch)



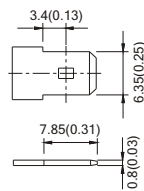
TERMINAL TYPE

● Terminal B1

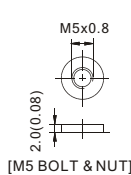


76±1.5(2.99±0.06)

● Terminal T2



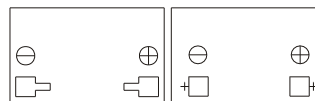
● Terminal I1



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	859	609	460	275	195	156.6	63.6	40.2	22.4
10.50V	995	660	484	285	203	161.7	65.2	40.9	22.9
10.20V	1057	686	498	292	207	165.1	65.7	41.2	23.0
9.90V	1105	701	509	296	210	166.9	66.4	41.4	23.0
9.60V	1141	714	518	300	212	168.0	66.6	41.5	23.0

TERMINAL POSITION



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