



# Valve Regulated Lead-Acid Rechargeable Battery



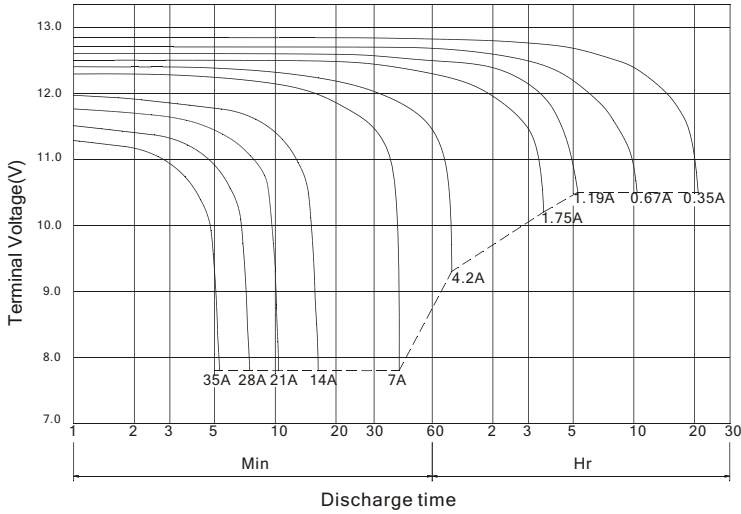
## EVP7-12

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

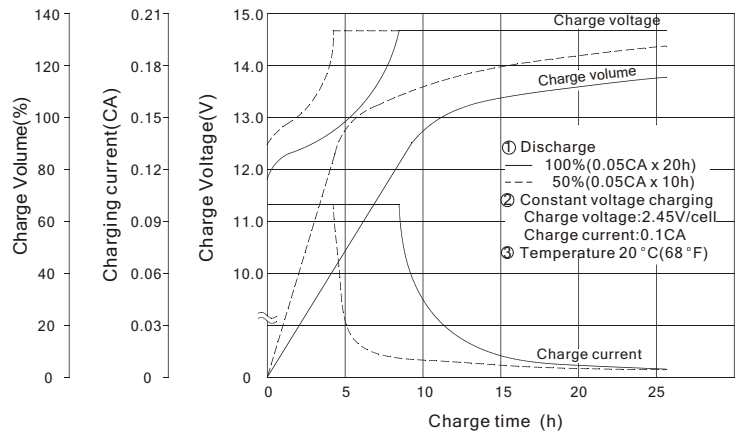
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (0.35A to 10.50volts) .....	7.00A.H.
5 Hour rate F.V.(1.75V/cell) (1.19A to 10.50volts) .....	5.95A.H.
30 Min rate F.V.(1.30V/cell) (8.75A to 7.80volts) .....	4.37A.H.
Approximate Weight .....	2750g(6.06lbs.)
Terminal	
Standard.....	Type T2
Optional.....	Type T1
Internal Resistance (Fully Charged Battery).....	<15mΩ
Maximum Discharge Current For 5 sec.(A).....	105A
Maximum Charge Current(A).....	2.1A
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.....	65/2.56
Container Height ±1.5mm.....	94/3.70
Total Height   ±2mm.....	100/3.94
Application.....	Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.

## EVP7-12 Battery discharge characteristics (25 °C/77 °F)



## Battery Charging Characteristics

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



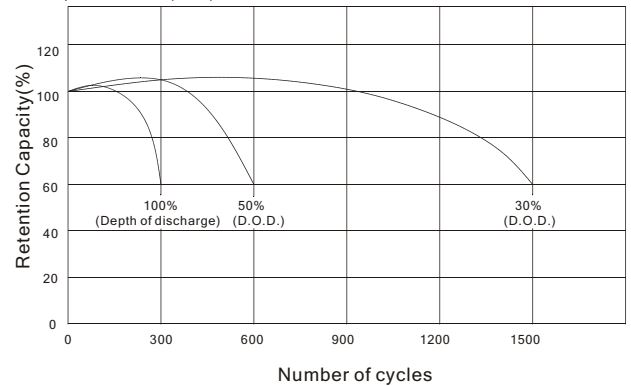
## Charging Procedure

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	

\*Temperature compensation of charging voltage is not needed, when using the batteries within 5 °C to 35 °C range.

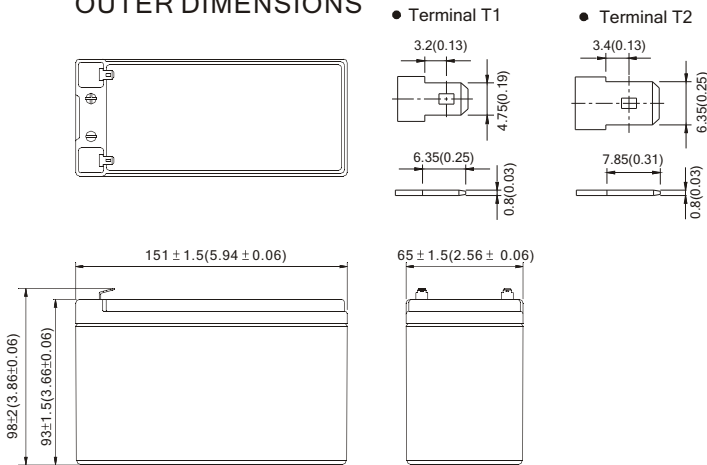
## Battery Life Characteristics of Cyclic Use

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)



## TERMINAL TYPE

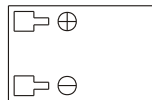
### OUTER DIMENSIONS



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	45Min	1Hr	3Hr	5Hr	10Hr
10.80V	301	213	161	95	68	54.8	22.0	14.0	7.8
10.50V	348	231	169	99	71	56.6	22.6	14.3	8.0
10.20V	370	240	174	102	72	57.8	23.0	14.4	8.0
9.90V	386	245	178	104	73	58.4	23.2	14.5	8.1
9.60V	399	250	181	105	74	58.8	23.3	14.5	8.1

## TERMINAL POSITION



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