

Maintenance-Free Rechargeable Sealed Lead-Acid Battery



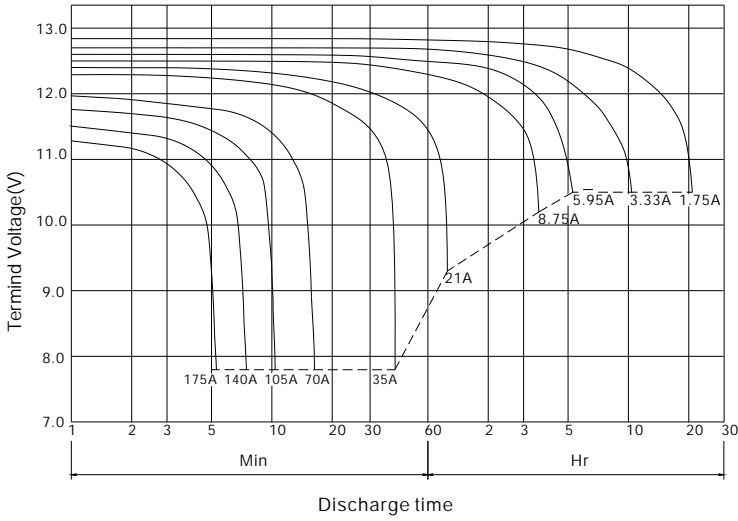
# EVP35-12

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 use in any direction and position without leakage.

## PERFORMANCE SPECIFICATIONS

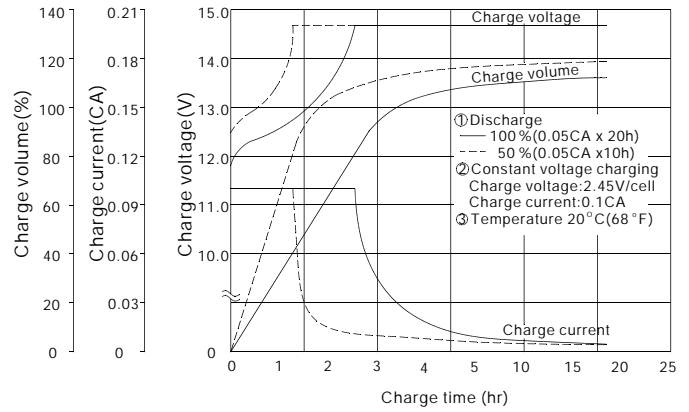
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (1.75A to 10.50volts) .....	35.0A.H.
5 Hour rate F.V.(1.75V/cell) (5.95A to 10.50volts) .....	29.8A.H.
30 Min rate F.V.(1.30V/cell) (43.75A to 7.80volts).....	21.9A.H.
Approximate Weight.....	12.50kg(27.571lbs.)
Terminal	
Standard.....	Type B2-1
Internal Resistance (Fully Charged Battery).....	<6m Ω
Maximum Discharge Current For 5 sec. (A).....	525A
Maximum Charge Current(A).....	10.5A
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.....	210/8.27
Width           ±1.5mm.....	129/5.08
Container Height ±1.5mm.....	168/6.61
Total Height   ±2mm.....	179/7.05
Application.....	Wheelchairs, Lawn Mowers, Electronic Medical Equipment, Golf-Carts.

## EVP35-12 Battery discharge characteristics (25 °C/77 °F)



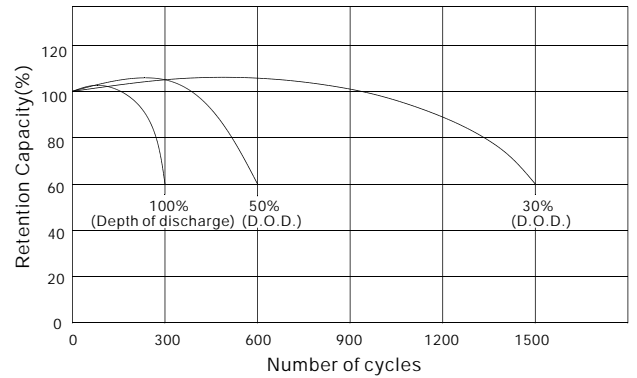
## Battery Charging Characteristics

(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)

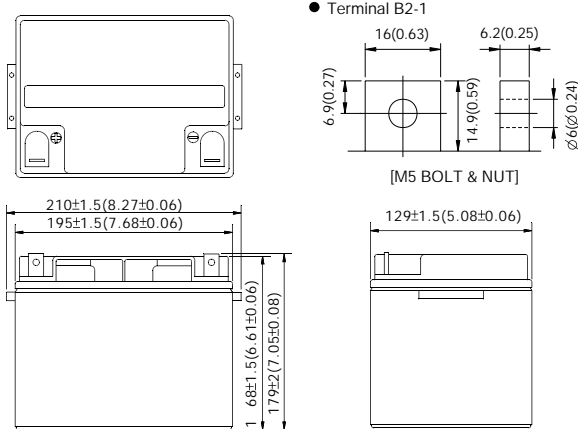


## Charging Procedure

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.

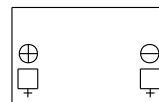
## OUTER DIMENSIONS TERMINAL TYPE



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	45Min	1Hr	3Hr	5Hr	10Hr
10.80V	1503	1065	806	475	340	274	110	70	39.2
10.50V	1740	1154	846	495	355	283	113	71.4	40
10.20V	1849	1200	871	508	362	289	115	72.1	40.2
9.90V	1932	1227	891	518	367	292	116	72.5	40.3
9.60V	1996	1249	907	525	371	294	116.5	72.7	40.3

## TERMINAL POSITION



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