



Valve Regulated Lead-Acid Rechargeable Battery



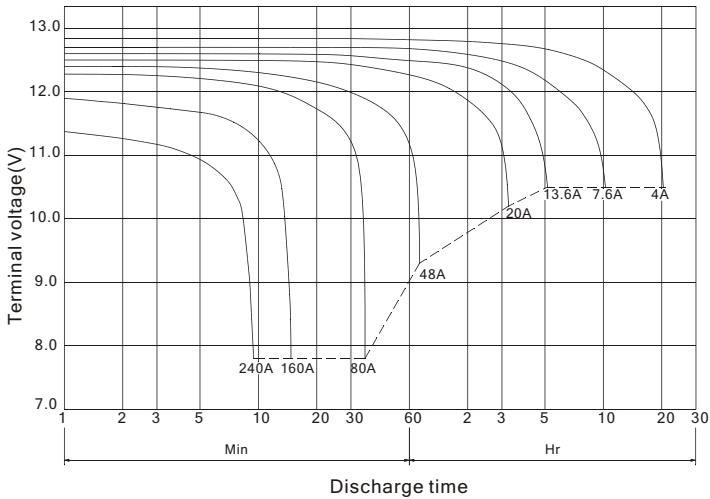
EP80-12

The battery is constructed by plates, separators, safety valves, flame arrestors 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.

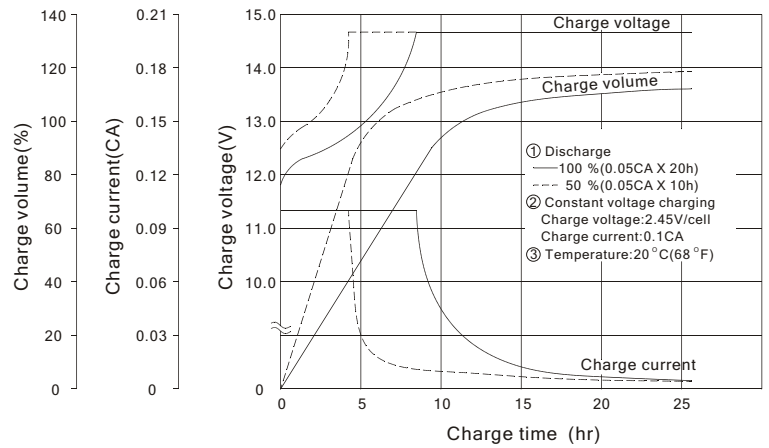
PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (4.0A to 10.50volts)	80Ah
10 Hour rate F.V.(1.75V/cell) (7.6A to 10.50volts)	76Ah
5 Hour rate F.V.(1.75V/cell) (13.6A to 10.50volts).....	68Ah
30 Min rate F.V.(1.30V/cell) (80.0A to 7.80volts).....	40Ah
Approximate Weight.....	31.2kg(68.8lbs.)
Terminal	
Standard.....	Type B3
Optional.....	Type I2
Internal Resistance (Fully Charged Battery).....	<5mΩ
Maximum Discharge Current For 5 sec.(A).....	800A
Maximum Charge Current(A).....	24A
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)
Case.....	ABS
Dimension(mm/inch)	
Length ±2mm.....	329/12.95
Width ±2mm.....	172/6.77
Container Height ±2mm.....	215/8.46
Total Height ±2mm.....	238/9.37
Application.....	EV, Telecom, Golf-carts.

EP80-12 Battery discharge characteristics (25 °C/77 °F)



BATTERY CHARGING CHARACTERISTICS (Typical example of the charge characteristics for the standby use)

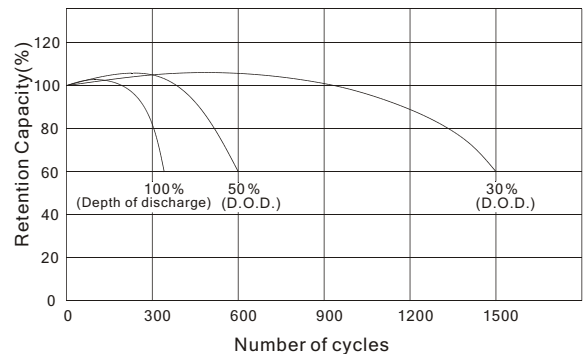


Charging Procedure

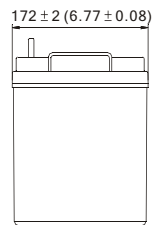
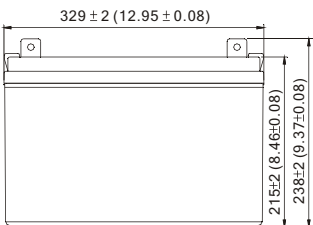
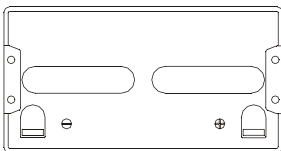
Application	Charging method	Charging Voltage at 20 °C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20 °C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging	2.25~2.30	-3	0.3	24	20	0~40 (32~104°F)
For cycle service	charging (with current restriction)	2.40~2.50	-4	0.3	16	10	

Battery Life Characteristics of Cyclic Use

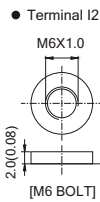
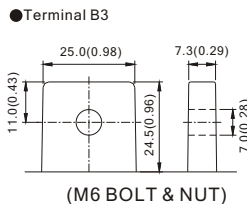
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7V/cell)
 Charging Current : 0.1C Amp
 Charging Volume : 120% OF Discharge Capacity
 Ambient Temperature : 20 °C (68 °F)



OUTER DIMENSIONS mm(inch)



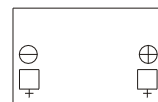
TERMINAL TYPE mm(inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	2427	1939	1586	1015	553	233	161	89.8	47.0
10.50V	2660	2082	1661	1054	569	238	163	91.2	48.0
10.20V	2900	2170	1711	1078	579	240	165	91.7	48.2
9.90V	3100	2251	1751	1093	587	242	166	91.9	48.3
9.60V	3244	2296	1785	1104	593	243	166	91.9	48.3

TERMINAL POSITION



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