

Maintenance-Free Rechargeable Sealed Lead-Acid Battery



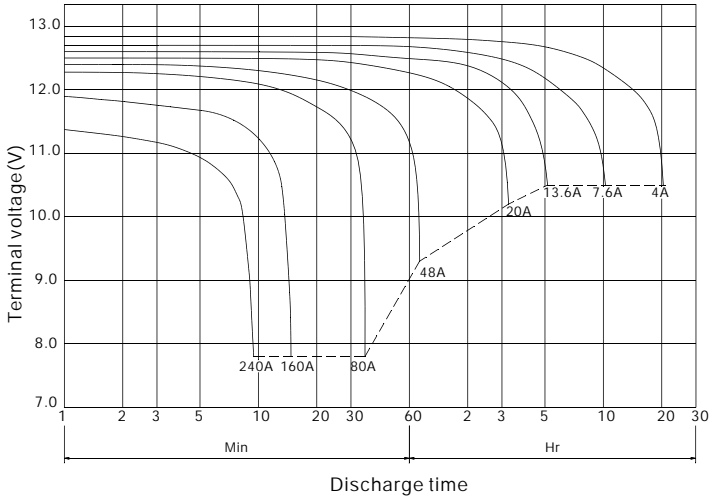
EP80-12

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 use in any direction and position without leakage.

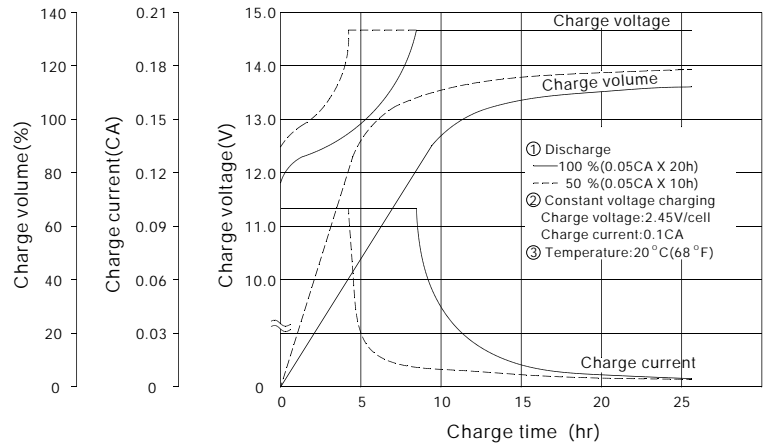
PERFORMANCE SPECIFICATIONS

Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(AH)	
20 Hour rate F.V.(1.75V/cell) (4.00A to 10.50volts)	80A.H.
10 Hour rate F.V.(1.75V/cell) (7.60A to 10.50volts)	76A.H.
5 Hour rate F.V.(1.75V/cell) (13.6A to 10.50volts).....	68A.H.
30 Min rate F.V.(1.30V/cell) (80.0A to 7.80volts).....	40A.H.
Approximate Weight.....	34.0kg(74.97lbs.)
Terminal	
Standard.....	Type B3
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, TELCOM, Golf-Carts.

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



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



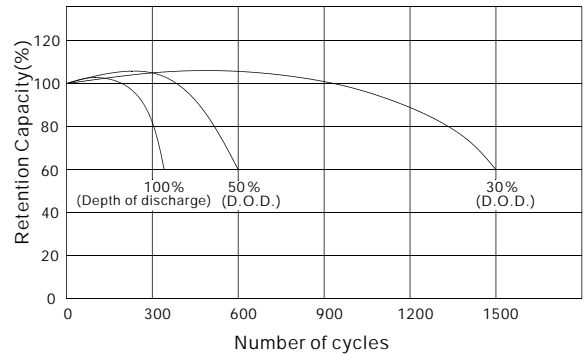
Charging Procedure

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	

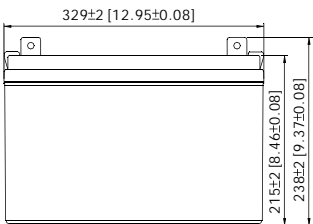
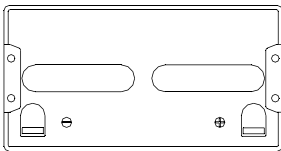
*Temperature compensation of charging voltage is not needed, when using the batteries within 5 °C to 35 °C range.

Battery Life Characteristics of Cyclic Use

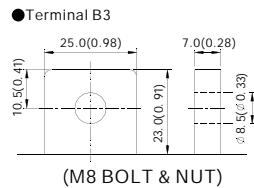
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7V/cell)
Charging Current : 0.1C Amp
Charging Volume : 120% OF Discharge Capacity
Ambient Temperature : 20 °C (68 °F)



OUTER DIMENSIONS mm(inch)



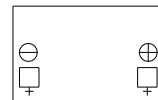
TERMINAL TYPE mm(inch)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	2606	1958.9	1586.3	954.3	553.1	233.1	161.1	89.83	46.97
10.50V	3017	2122.3	1660.6	990.9	569.1	237.7	163.4	91.20	48.00
10.20V	3200	2198.9	1710.9	1012.6	579.4	240.0	164.6	91.66	48.23
9.90V	3349	2251.4	1750.9	1027.4	587.4	242.3	165.7	91.89	48.34
9.60V	3451	2296.0	1785.1	1037.7	593.1	243.4	165.7	91.89	48.34

TERMINAL POSITION



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