



Valve Regulated Lead-Acid Rechargeable Battery



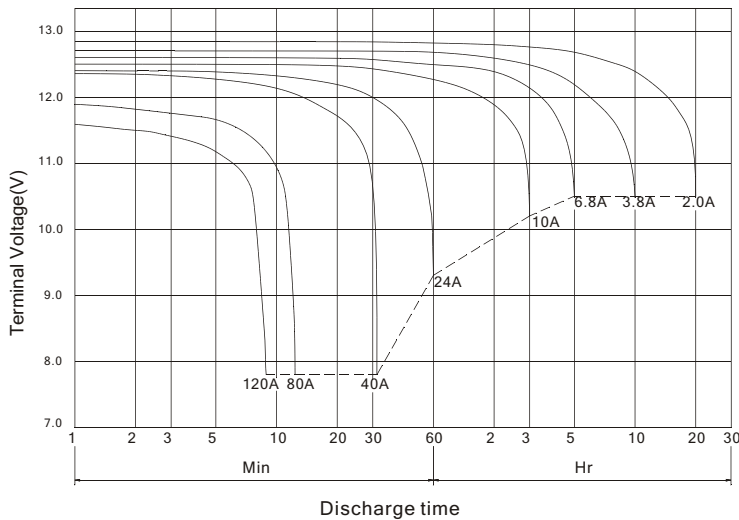
EP40-12

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

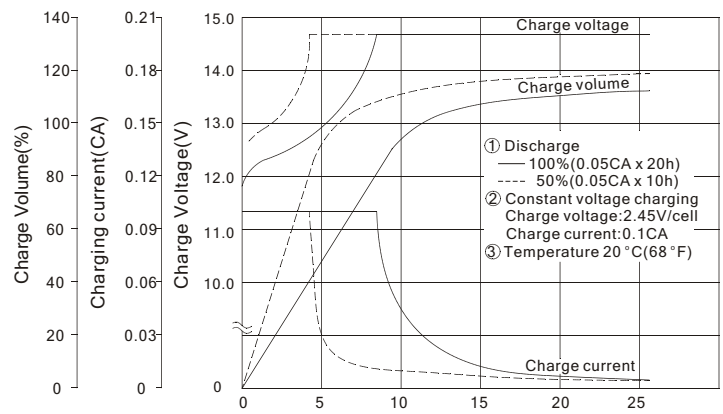
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (2000mA to 10.50volts)	40.0Ah
10 Hour rate F.V.(1.75V/cell) (3800mA to 10.50volts)	38.0Ah
5 Hour rate F.V.(1.75V/cell) (6800mA to 10.50volts)	34.0Ah
30 Min rate F.V.(1.30V/cell) (40000mA to 7.80volts).....	20.0Ah
Approximate Weight.....	14500g(31.97lbs.)
Terminal	
Standard.....	Type B2
Optional.....	Type I1, I2
Terminal Hardware Initial Torque.....	B2,I1(4.0 Nm $\pm$ 5%), I2(5.5 Nm $\pm$ 5%)
Internal Resistance (Fully Charged Battery).....	$\leq 8m\Omega$
Maximum Discharge Current For 5 sec.(A).....	600A
Maximum Charge Current(A).....	12A
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 $\pm 1.5mm$	197/7.76
Width $\pm 1.5mm$	165/6.50
Container Height $\pm 1.5mm$	171/6.73
Total Height $\pm 1.5mm$	171/6.73
Application.....	Wheelchairs, Lawn Mowers, Electric Vehicles, Golf-Carts.

EP40-12 Battery discharge characteristics (25 °C/77 °F)



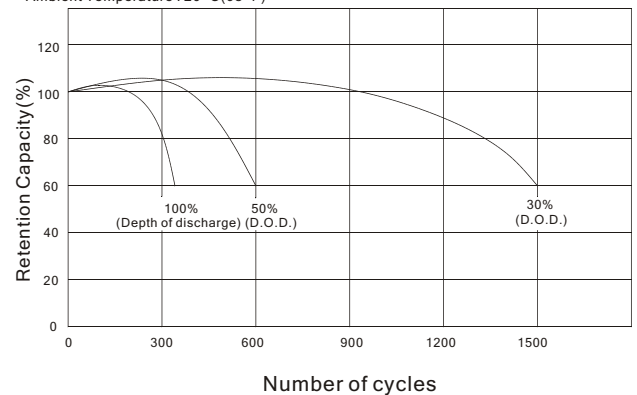
Battery Charging Characteristics

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



Battery Life Characteristics of Cyclic Use

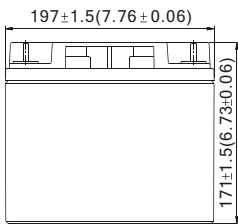
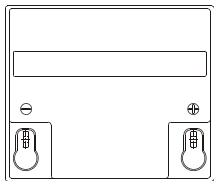
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7v/cell)
Charging Current : 0.1C Amp
Charging Voltage : 120% OF Discharge Capacity
Ambient Temperature : 20 °C (68 °F)



Charging Procedure

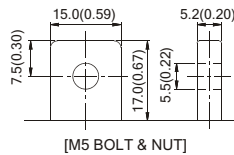
Application	Charging method	Charging Voltage at 20 °C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20 °C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging	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	

OUTER DIMENSIONS mm(inch)

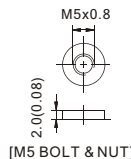


TERMINAL TYPE mm(inch)

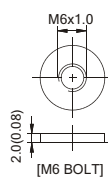
Terminal B2



Terminal I1



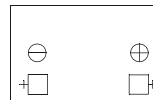
Terminal I2



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
	Battery output power (W)								
10.80V	1303	979.4	793.1	477.1	276.6	116.6	80.6	44.91	23.49
10.50V	1509	1061.1	830.3	495.4	284.6	118.9	81.7	45.60	24.00
10.20V	1600	1099.4	855.4	506.3	289.7	120.0	82.3	45.83	24.11
9.90V	1674	1125.7	875.4	513.7	293.7	121.1	82.9	45.94	24.17
9.60V	1726	1148.0	892.6	518.9	296.6	121.7	82.9	45.94	24.17

TERMINAL POSITION



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