



Valve Regulated Lead-Acid Rechargeable Battery



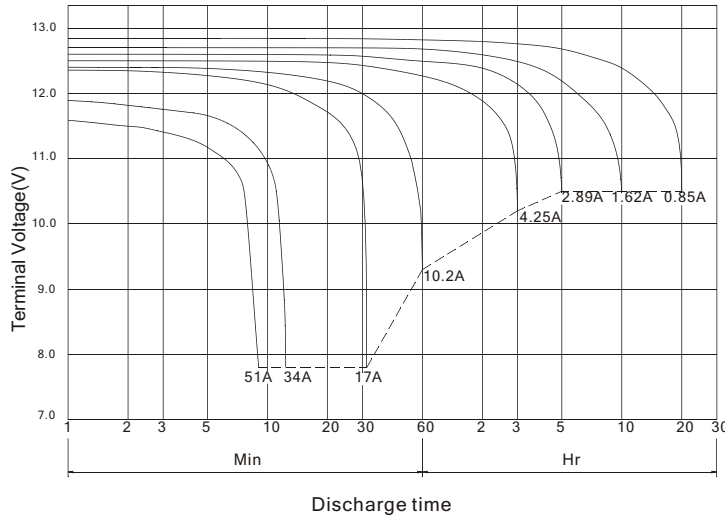
EP17-12

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

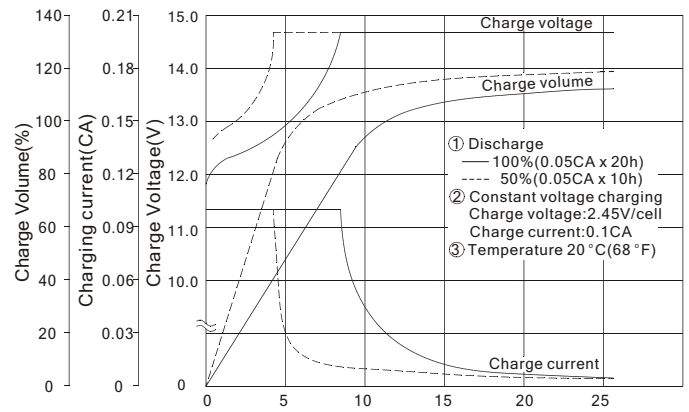
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 Hour rate F.V.(1.75V/cell) (850mA to 10.50volts).....	17.0Ah
10 Hour rate F.V.(1.75V/cell) (1615mA to 10.50volts)	16.15Ah
5 Hour rate F.V.(1.75V/cell) (2890mA to 10.50volts)	14.45Ah
30 Min rate F.V.(1.30V/cell) (17000mA to 7.80volts).....	8.50Ah
Approximate Weight.....	6200g(13.67lbs.)
Terminal	
Standard.....	Type B1
Optional.....	Type T2,I1
Terminal Hardware Initial Torque.....	B1(2.5 Nm $\pm$ 5%), I1(4.0 Nm $\pm$ 5%)
Internal Resistance (Fully Charged Battery).....	$\leq 16m\Omega$
Maximum Discharge Current For 5 sec.(A).....	255A
Maximum Charge Current(A).....	5.1A
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: UL 94-HB
Dimension(mm/inch)	
Length $\pm 1.5mm$	181/7.13
Width $\pm 1.5mm$	76/2.99
Container Height $\pm 1.5mm$	166/6.54
Total Height $\pm 1.5mm$	166/6.54
Application.....	Fishing Lights, Lawn Mowers, Electrical Bicycle.

EP17-12 Battery discharge characteristics (25 °C/77 °F)



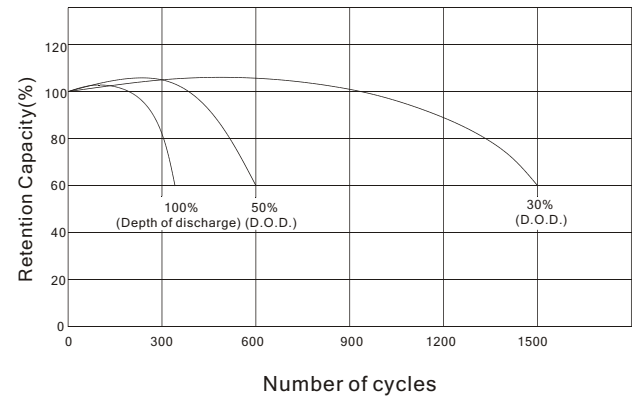
Battery Charging Characteristics

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



Battery Life Characteristics of Cyclic Use

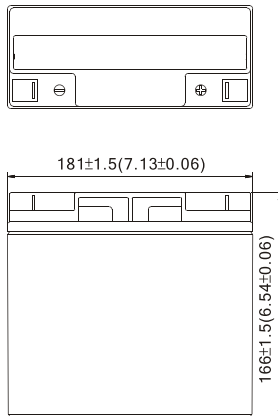
Testing Conditions : Discharge Current : 0.25C Amp (F.V. 1.7V/cell)
Charging Current : 0.1C Amp
Charging Voltage : 120% OF Discharge Capacity
Ambient Temperature : 20 °C (68 °F)



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 (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	

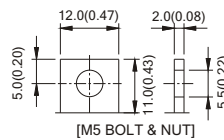
OUTER DIMENSIONS



TERMINAL TYPE

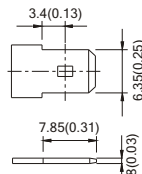
mm (inch)

● Terminal B1

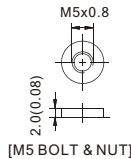


[M5 BOLT & NUT]

● Terminal T2



● Terminal I1

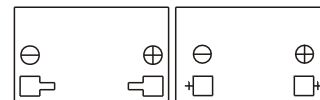


[M5 BOLT & NUT]

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	554	416.3	337.1	202.8	117.5	49.5	34.2	19.09	10.00
10.50V	641	451.0	352.9	210.6	120.9	50.5	34.7	19.38	10.20
10.20V	680	467.3	363.6	215.2	123.1	51.0	35.0	19.48	10.25
9.90V	712	478.4	372.1	218.3	124.8	51.5	35.2	19.53	10.27
9.60V	733	487.9	379.3	220.5	126.0	51.7	35.2	19.53	10.27

TERMINAL POSITION



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