



Valve Regulated Lead-Acid Rechargeable Battery



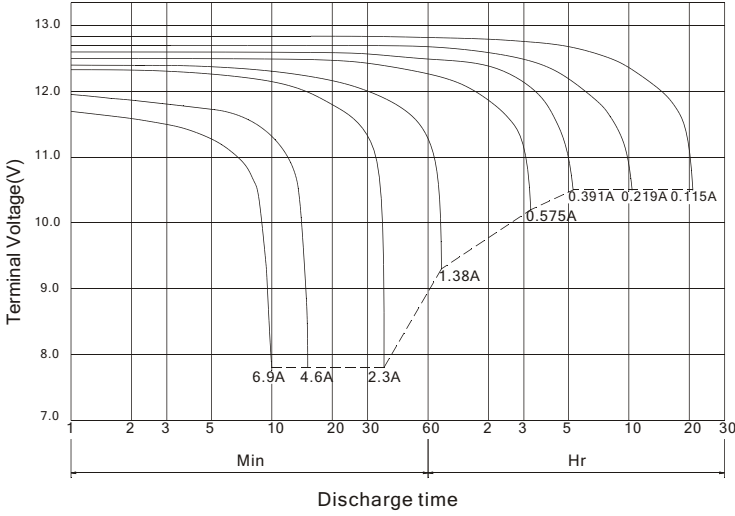
BP2.3-12

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

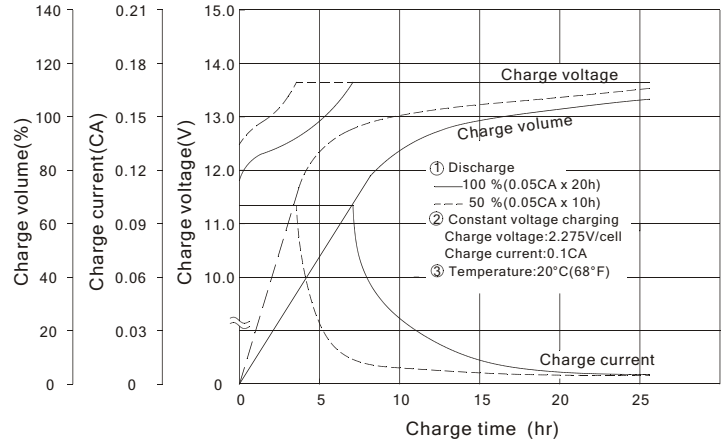
Nominal Voltage(V).....	12 volts(6cells in series)
Nominal Capacity(Ah)	
20 hour rate F.V.(1.75V/cell) (115mA to 10.50volts)	2.3 Ah
10 hour rate F.V.(1.75V/cell) (219mA to 10.50volts)	2.19Ah
5 hour rate F.V.(1.75V/cell) (391mA to 10.50volts)	1.96Ah
1 hour rate F.V.(1.55V/cell)(1380mA to 9.30volts).....	1.38Ah
Approximate Weight.....	940g(2.07 lbs.)
Terminal	
Standard.....	T1
Internal Resistance (Fully Charged Battery).....	≤60mΩ
Maximum Discharge Current For 5 sec.(A).....	34.5A
Maximum Charge Current(A).....	0.69A
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 ±1.5mm.....	178/7.01
Width ±1.5mm.....	34/1.34
Container Height ±1.5mm.....	60/2.36
Total Height ±2mm.....	65/2.56
Application.....	UPS, Video Camcorders.

BP2.3-12 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

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

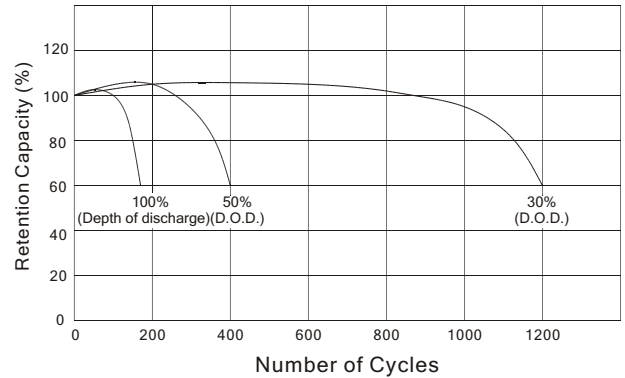


Charging Procedure

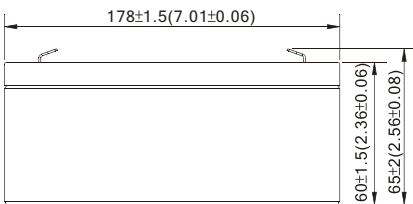
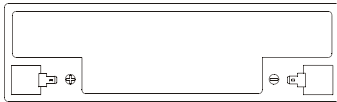
Application	Charging method	Charging Voltage at 20°C (V/cell)	Temperature compensation coefficient of charging voltage (mV/°C/cell)	Max. charging current (CA)	Charging time 0.1CA, 20°C (h)		Temp (°C)
					100% discharge	50% discharge	
For standby power Source	Constant voltage & Constant current charging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

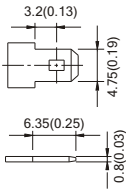


OUTER DIMENSIONS

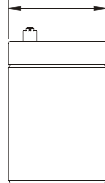


TERMINAL TYPE mm (inch)

• Terminal T1



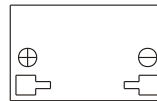
34±1.5(1.34±0.06)



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

Final Voltage	Discharge time								
	5Min	10Min	15Min	30Min	1Hr	3Hr	5Hr	10Hr	20Hr
10.80V	83.2	61.2	49.1	29.2	16.74	6.70	4.62	2.58	1.35
10.50V	96.2	66.3	51.3	30.3	17.24	6.84	4.69	2.62	1.38
10.20V	102.3	68.7	52.9	31.0	17.55	6.90	4.72	2.64	1.39
9.90V	106.9	70.4	54.1	31.4	17.76	6.95	4.73	2.64	1.39
9.60V	110.4	71.8	55.2	31.7	17.94	6.99	4.75	2.64	1.39

TERMINAL POSITION



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