



1720 Hayden Drive
 Carrollton, TX 75006
 P: 469.892.1122
 F: 469.892.1123
 www.upgi.com

Sealed-Lead Acid Battery

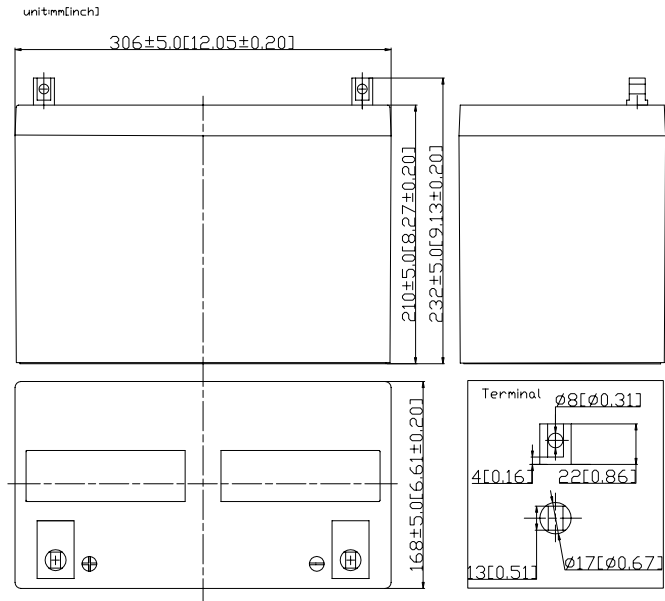
model #UB121000

upg #45978

I. Structure

The battery consists mainly of positive plates, negative plates, separators, electrolyte, valves, a container and a cover.

The electrolyte is absorbed in both positive/negative plate and separators.



II. Performance Specifications

Nominal Voltage (V).....12 volts (6 cells in series)

Nominal Capacity (AH)

20 Hour rate F.V.(1.75V/cell) (4.75A to 10.5volts)95A.H.

Approximate Weight27.1Kg

Terminal

Z Post.....Φ8.0 hole

Maximum Discharge Current For 5 sec. (A).....950A

Maximum Charge Current (A).....28.5A

Ambient Temperature

Charge0 °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)

Expected Life for Standby Use at 20%6 years

CaseABS

Dimension (mm/inch)

Length (±5.0mm)306/12.05

Width (±5.0mm)168/6.61

Container Height (±5.0mm)210/8.27

Total Height (±5.0mm)232/9.13

Application.....UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights.



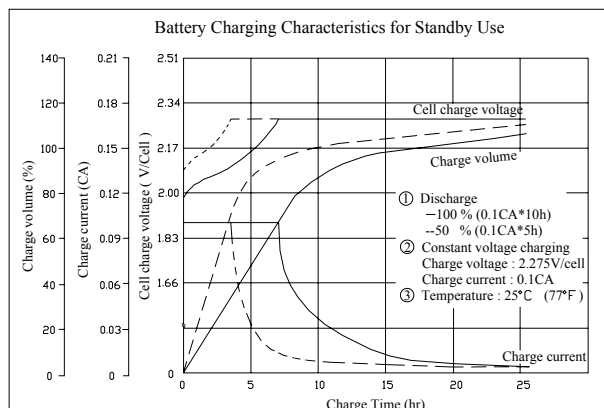
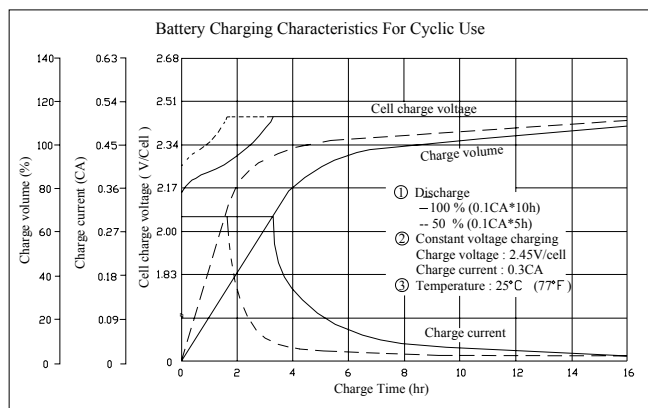
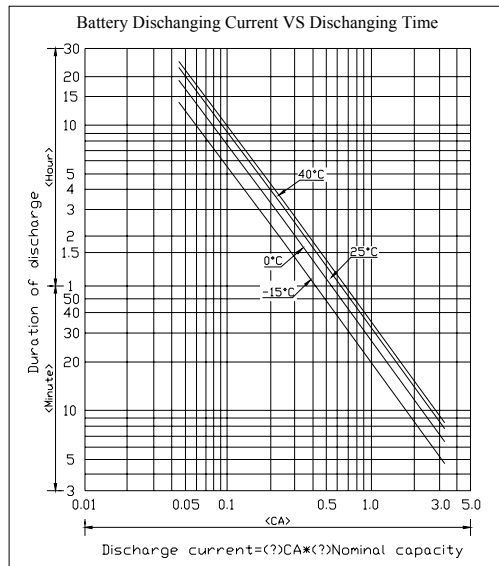
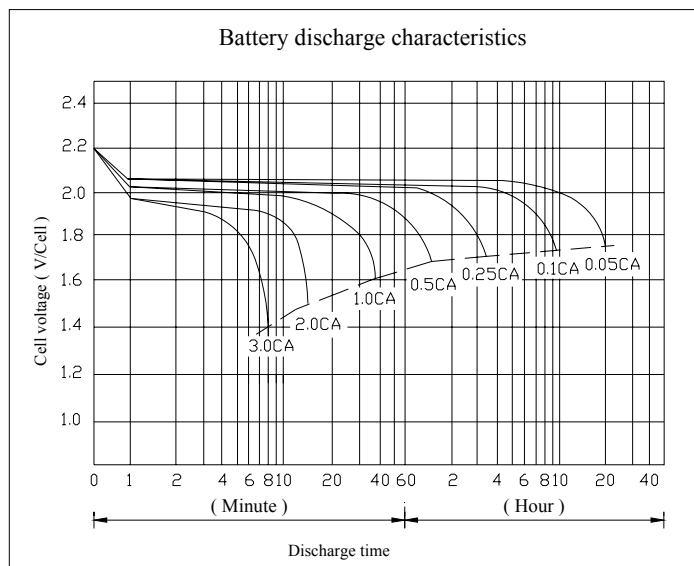
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Battery Characteristics Graph



Effect of temperature on capacity (20HR)

Temperature	Dependency of Capacity (20HR)
40 C	102%
25 C	100%
0 C	85%
-15 C	65%

Self-discharge Characteristics

Aging Time	Residual Capacity
3 Months	91%
6 Months	82%
12 Months	64%

Note: The data mentioned above just for full charged battery.

III. Charging Procedure

Application	Charging method	Charge voltage at 25 C (V/cell)	Temperature compensation coefficient of charging voltage (mV/C·cell)	Max. charging current (CA)	Charging time 0.1CA, 25 C (h)		Temp (C)
					100% DOD	50% DOD	
For standby power source	Constant voltage charging (with current restriction)	2.25~2.30	-3	0.30	24	20	0~40 C (32~104 F)
For cycle service		2.40~2.50	-4	0.30	16	10	

Note:

Temperature compensation of charging voltage is not needed, when using the batteries within 15°C to 35°C range.