



Valve Regulated Lead-Acid Rechargeable Battery



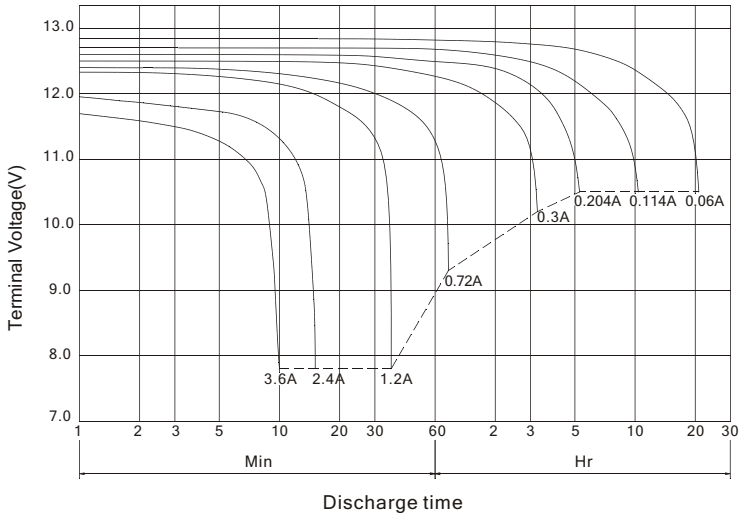
BP1.2-12

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 without leakage.

PERFORMANCE SPECIFICATIONS

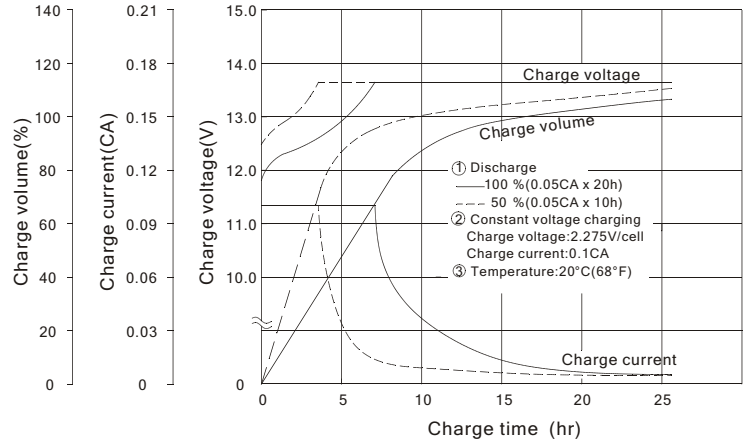
| | |
|---|----------------------------|
| Nominal Voltage(V)..... | 12 volts(6cells in series) |
| Nominal Capacity(AH) | |
| 20 hour rate F.V.(1.75V/cell)(60mA to 10.50volts) | 1.2A.H. |
| 10 hour rate F.V.(1.75V/cell)(114mA to 10.50volts)..... | 1.14A.H. |
| 5 hour rate F.V.(1.75V/cell)(204mA to 10.50volts) | 1.02A.H. |
| 1 hour rate F.V.(1.55V/cell)(720mA to 9.30volts)..... | 0.72A.H. |
| Approximate Weight..... | 590g(1.30lbs.) |
| Terminal | |
| Standard..... | T1 |
| Internal Resistance (Fully Charged Battery)..... | <120mΩ |
| Maximum Discharge Current For 5 sec.(A)..... | 18A |
| Maximum Charge Current(A)..... | 0.36A |
| 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 |
| Dimension(mm/inch) | |
| Length ±1.5mm..... | 97/3.82 |
| Width ±1.5mm..... | 45/1.77 |
| Container Height ±1.5mm..... | 53/2.09 |
| Total Height ±2mm..... | 59/2.32 |
| Application..... | Security Alarm Systems. |

BP1.2-12 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

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

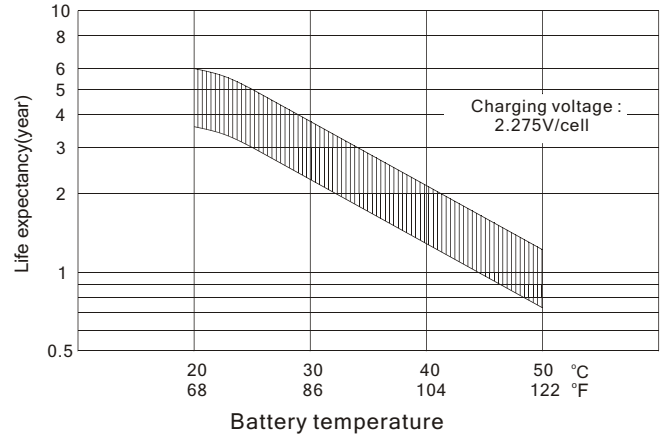


Charging Procedure

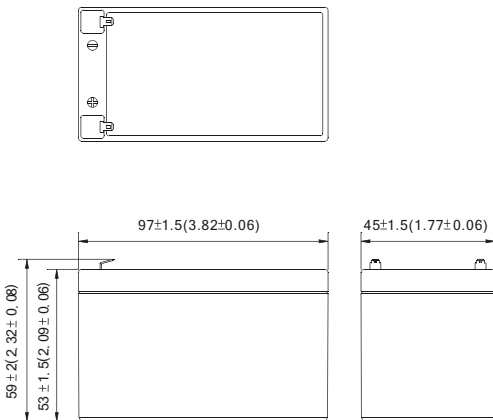
| Application | Charging method | Charging Voltage at 20°C (V/cell) | Temperature compensation coefficient of charging voltage (mV/°C/cell) | Max. charging current (CA) | Charging time 0.1CA, 20°C (h) | | Temp (°C) |
|--------------------------|---|-----------------------------------|---|----------------------------|-------------------------------|---------------|-----------------|
| | | | | | 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 | | 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.

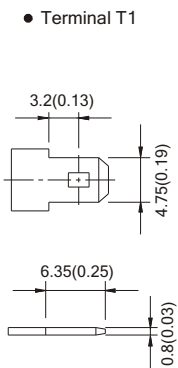
Effect of Temperature on Long Term Float Life



OUTER DIMENSIONS



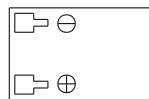
TERMINAL TYPE mm(inch)



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

| Final Voltage | Discharge time | | | | | | | | |
|---------------|----------------|-------|-------|-------|------|------|------|------|------|
| | 5Min | 10Min | 15Min | 30Min | 1Hr | 3Hr | 5Hr | 10Hr | 20Hr |
| 10.80V | 43.4 | 31.9 | 25.6 | 15.2 | 8.73 | 3.50 | 2.41 | 1.35 | 0.70 |
| 10.50V | 50.2 | 34.6 | 26.8 | 15.8 | 9.00 | 3.57 | 2.45 | 1.37 | 0.72 |
| 10.20V | 53.4 | 35.8 | 27.6 | 16.2 | 9.16 | 3.60 | 2.46 | 1.37 | 0.72 |
| 9.90V | 55.8 | 36.7 | 28.2 | 16.4 | 9.27 | 3.63 | 2.47 | 1.38 | 0.73 |
| 9.60V | 57.6 | 37.4 | 28.8 | 16.6 | 9.36 | 3.65 | 2.48 | 1.38 | 0.73 |

TERMINAL POSITION



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