



Valve Regulated Lead-Acid Rechargeable Battery



HR6-12

(24W/Cell 15Min Rate)

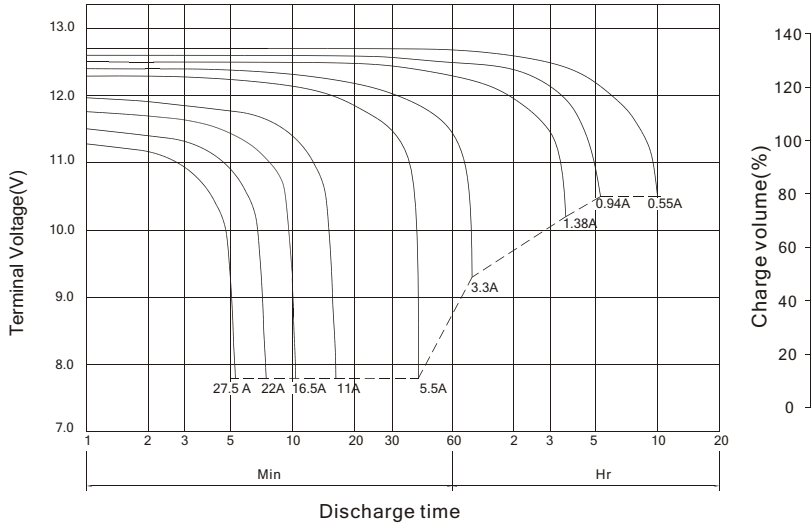
For High Rate Discharge

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

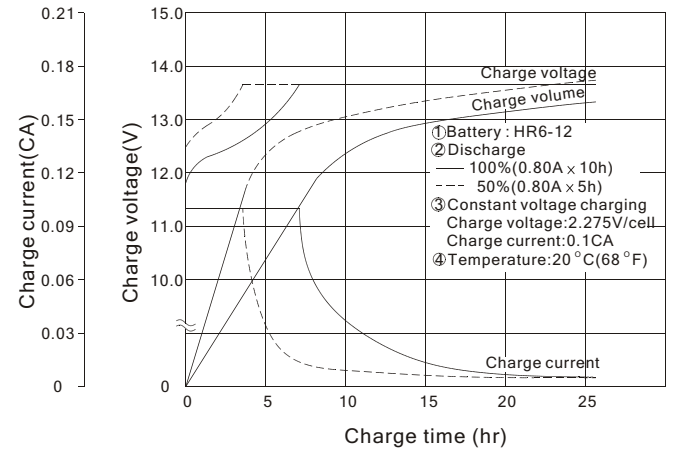
| | |
|---|---|
| Nominal Voltage(V)..... | 12 volts(6cells in series) |
| Nominal Capacity(AH) | |
| 10 Hour rate F.V.(1.75V/cell) (550mA to 10.50volts) | 5.5A.H. |
| 15 Min rate F.V.(1.30V/cell) (144W to 7.80volts) | 3.0A.H. |
| Approximate Weight | .2100g(4.63lbs.) |
| Terminal | |
| Standard..... | Type T1 |
| Optional..... | Type T2 |
| Internal Resistance (Fully Charged Battery)..... | <20mΩ |
| Maximum Discharge Current For 5 sec.(A)..... | 82.5A |
| Maximum Charge Current(A)..... | 1.65A |
| 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..... | 151/5.94 |
| Width ±1.5mm..... | 51/2.01 |
| Container Height ±1.5mm..... | 94/3.70 |
| Total Height ±2mm..... | 100/3.94 |
| Application..... | UPS, Laboratory Equipment, Toy-Cars, Power Packs, Fishing Lights. |

HR6-12 Battery discharge characteristics (25 °C/77 °F)



Battery Charging Characteristics

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

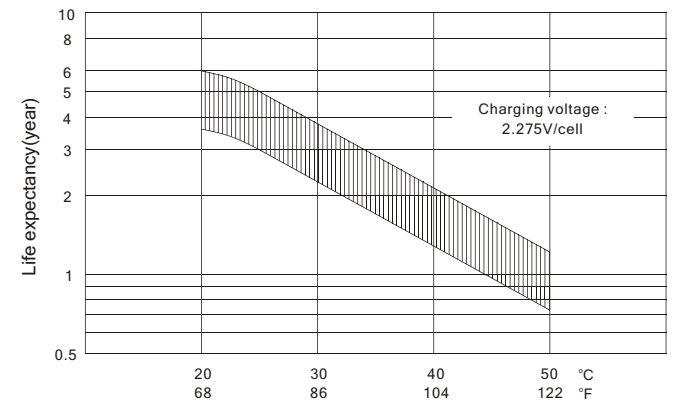


Charging Procedure

| 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 | |

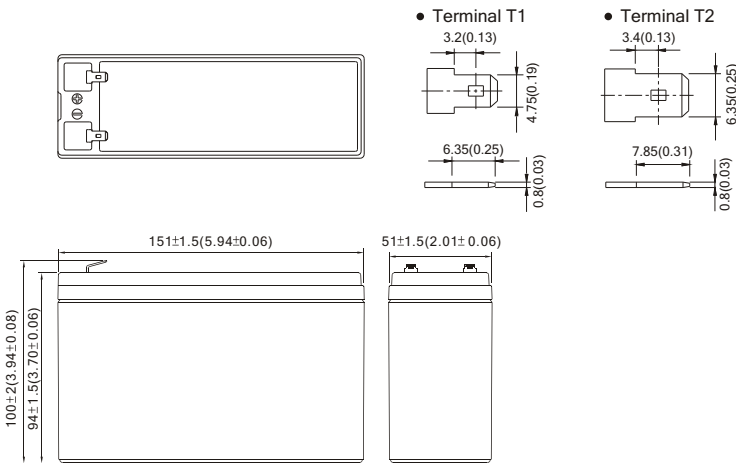
*Temperature compensation of charging voltage is not needed, when using the batteries within 5 °C to 35 °C range.

Effect of Temperature on Long Term Float Life



TERMINAL TYPE mm (inch)

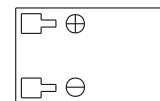
OUTER DIMENSIONS



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

| Final Voltage | Discharge time | | | | | | | |
|---------------|----------------|-------|-------|-------|-------|-------|-------|-------|
| | 5Min | 10Min | 15Min | 20Min | 30Min | 40Min | 50Min | 60Min |
| 10.80V | 246.0 | 168.0 | 121.7 | 103.8 | 78.9 | 60.0 | 50.1 | 44.1 |
| 10.20V | 294.0 | 187.5 | 132.3 | 109.9 | 82.2 | 62.3 | 51.7 | 45.1 |
| 9.60V | 315.0 | 197.3 | 138.3 | 114.0 | 84.0 | 63.7 | 52.8 | 45.9 |
| 9.00V | 324.0 | 201.0 | 141.3 | 115.8 | 85.1 | 64.5 | 53.4 | 46.3 |
| 8.40V | 330.0 | 203.7 | 142.9 | 116.9 | 85.7 | 64.9 | 53.9 | 46.7 |
| 7.80V | 333.0 | 205.5 | 144.0 | 117.6 | 86.1 | 65.3 | 54.1 | 46.8 |

TERMINAL POSITION



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