



Valve Regulated Lead-Acid Rechargeable Battery



HR75-12

(300W/Cell 15Min Rate)

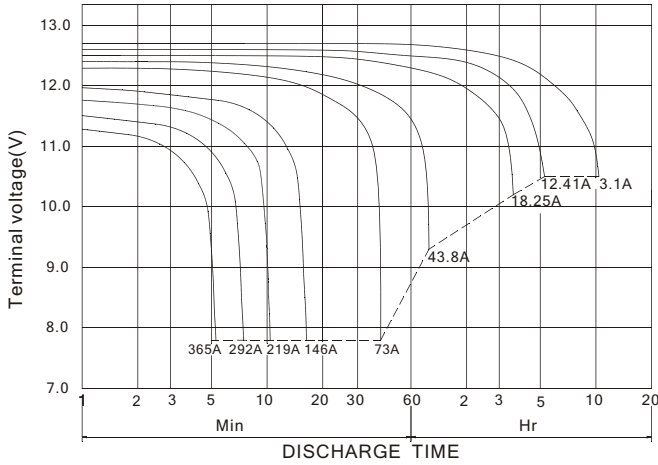
For High Rate Discharge

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

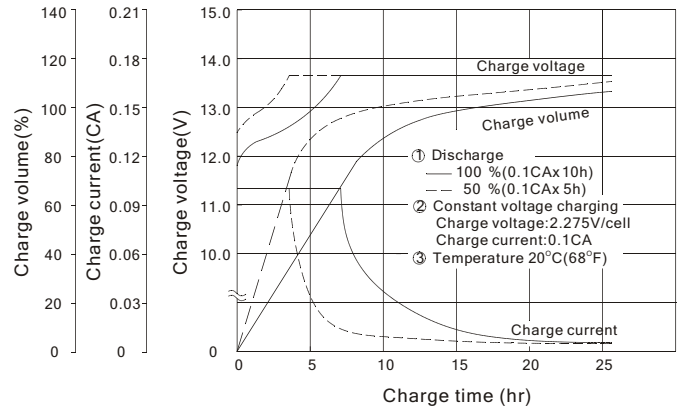
| | |
|---|-------------------------------|
| Nominal Voltage(V)..... | 12 volts(6cells in series) |
| Nominal Capacity(AH) | |
| 10 Hour rate F.V.(1.75V/cell) (7.30A to 10.50volts)..... | 73.0A.H. |
| 15 Min rate F.V.(1.30V/cell) (1800W to 7.80volts) | 37.5A.H. |
| Approximate Weight | 24.75Kg(54.57lbs.) |
| Terminal | |
| Standard..... | Type B5 |
| Optional..... | Type I2 |
| Internal Resistance (Fully Charged Battery)..... | <4mΩ |
| Maximum Discharge Current For 5 sec.(A)..... | 650A |
| Maximum Charge Current(A)..... | 21.9A |
| 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 ±2mm..... | 350/13.78 |
| Width ±2mm..... | 166/6.54 |
| Container Height ±2mm..... | 174/6.85 |
| Total Height ±2mm..... | 174/6.85 |
| Application..... | UPS, Wheelchairs, Golf-Carts. |

HR75-12 Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

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

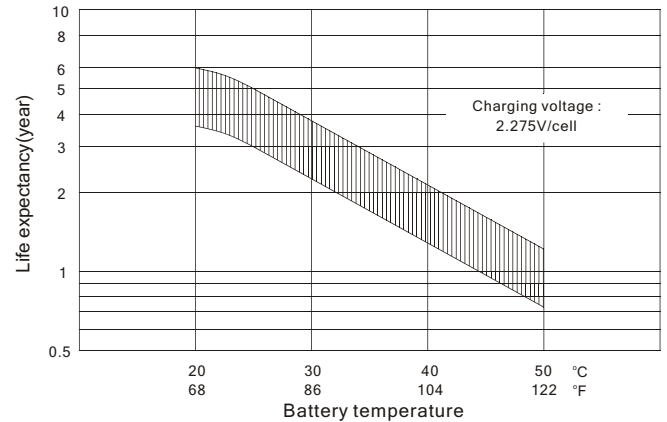


Charging Procedure

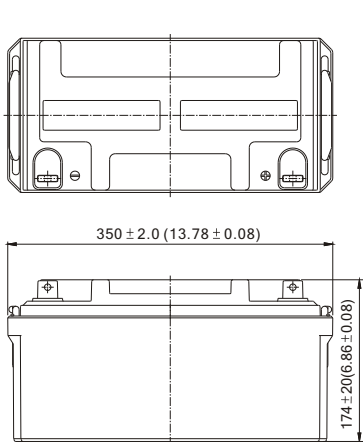
| Application | Charging method | Charging Voltage at 20°C (V/cell) | Temperature compensation coefficient of charging voltage (mV/C /cell) | Max. charging current (CA) | Charging time 0.1CA, 20°C (h) | | Temp (°C) |
|--------------------------|---|-----------------------------------|---|----------------------------|-------------------------------|--------------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

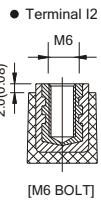
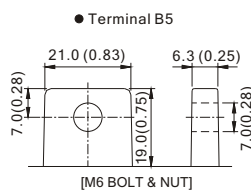
Effect of Temperature on Long Term Float Life



OUTER DIMENSIONS



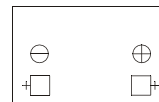
TERMINAL TYPE



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

| Final Voltage | Discharge time | | | | | | | |
|---------------|----------------|--------|--------|--------|--------|--------|--------|--------|
| | 5Min | 10Min | 15Min | 20Min | 30Min | 40Min | 50Min | 60Min |
| 10.80V | 3019.5 | 2099.9 | 1520.7 | 1297.8 | 986.30 | 749.96 | 625.58 | 551.25 |
| 10.20V | 3674.6 | 2344.4 | 1647.3 | 1373.0 | 1027.5 | 778.50 | 646.91 | 563.40 |
| 9.60V | 3936.9 | 2465.8 | 1728.8 | 1425.1 | 1049.6 | 796.51 | 660.00 | 573.74 |
| 9.00V | 4050.0 | 2512.6 | 1766.3 | 1447.5 | 1063.2 | 806.26 | 667.53 | 579.42 |
| 8.40V | 4125.0 | 2547.9 | 1786.0 | 1460.4 | 1070.9 | 811.49 | 672.19 | 585.00 |
| 7.80V | 4162.4 | 2565.0 | 1799.9 | 1470.0 | 1076.3 | 815.65 | 676.73 | 585.00 |

TERMINAL POSITION



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