



# Maintenance-Free Rechargeable Sealed Lead-Acid Battery



## HR5.5-12

(22W/Cell 15Min Rate)

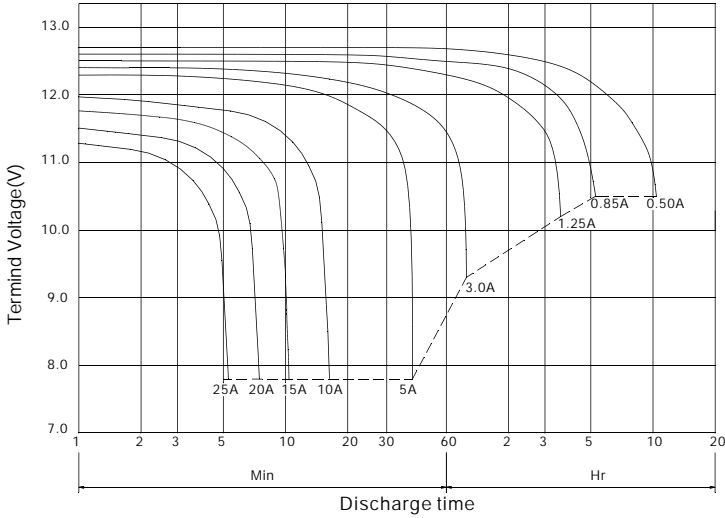
For High Rate Discharge

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 use in any direction and position without leakage.

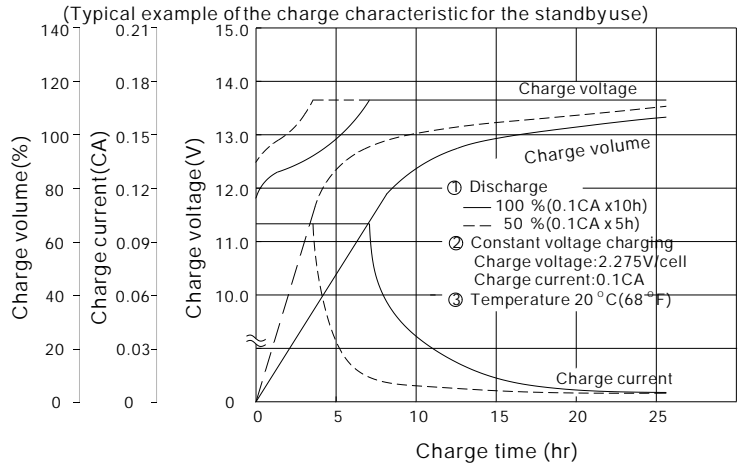
### PERFORMANCE SPECIFICATIONS

|   |  |
|---|--|
| Nominal Voltage(V).....   | 12 volts(6cells in series)                       |
| Nominal Capacity(AH)  |  |
| 10 Hour rate F.V.(1.75V/cell) (0.5A to10.50volts) .....   | 5.00A.H.   |
| 15 Min rate F.V.(1.30V/cell) (132W to 7.80volts) .....  | 2.75A.H.   |
| Approximate Weight .....  | .1860g(4.10lbs.)                                 |
| Terminal  |  |
| Standard.....   | Type T1  |
| Optional.....   | Type T2  |
| Internal Resistance (Fully Charged Battery).....  | <27m Ω   |
| Maximum Discharge Current For 5 sec.(A).....  | 75A  |
| Maximum Charge Current(A).....  | 1.50A  |
| 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.....  | 90/3.54  |
| Width           ±1.5mm.....   | 70/2.76  |
| Container Height ±1.5mm.....  | 102/4.02   |
| Total Height   ±2mm.....  | 106/4.17   |
| Application.....  | UPS, Fishing Lights, Emergency Lights, Toy-Cars. |

## HR5.5-12 Battery discharge characteristics (25 °C/77 °F)



## Battery Charging Characteristics

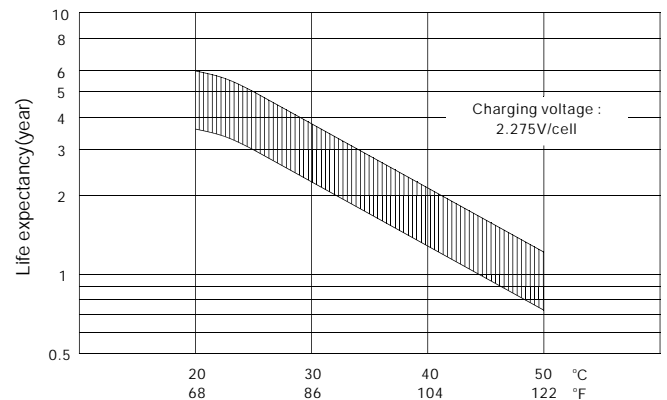


## Charging Procedure

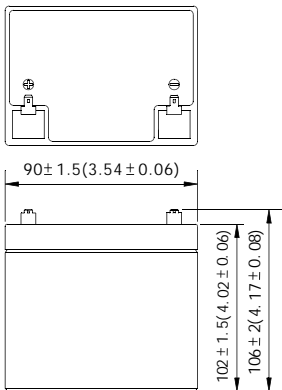
| Application              | Charging method   | Charging Voltage at 20 °C (V/cell) | Temperature compensation coefficient of charging voltage (mV/°C/cell) | Max. charging current (CA) | Charging time 0.1CA, 20 °C (h) |               | Temp (°C)       |
|--------------------------|---|------------------------------------|---|----------------------------|--------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

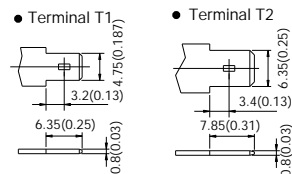
## Effect of Temperature on Long Term Float Life



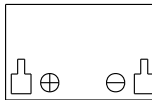
## OUTER DIMENSIONS mm(inch)



## TERMINAL TYPE mm(inch)



## TERMINAL POSITION



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

| Final Voltage | Discharge time           |       |       |       |       |       |       |       |
|---------------|--------------------------|-------|-------|-------|-------|-------|-------|-------|
|               | 5Min                     | 10Min | 15Min | 20Min | 30Min | 40Min | 50Min | 60Min |
|               | Battery output power (W) |       |       |       |       |       |       |       |
| 10.80V        | 225.5                    | 154.0 | 111.5 | 95.2  | 72.4  | 55.0  | 46.0  | 40.5  |
| 10.20V        | 269.5                    | 171.9 | 121.3 | 100.8 | 75.4  | 57.1  | 47.4  | 41.4  |
| 9.60V         | 288.8                    | 180.8 | 126.8 | 104.5 | 77.0  | 58.4  | 48.4  | 42.1  |
| 9.00V         | 297.0                    | 184.3 | 129.6 | 106.2 | 78.0  | 59.2  | 49.0  | 42.5  |
| 8.40V         | 302.5                    | 186.8 | 131.0 | 107.1 | 78.5  | 59.5  | 49.4  | 42.8  |
| 7.80V         | 305.3                    | 188.4 | 132.0 | 107.8 | 79.0  | 59.8  | 49.6  | 42.9  |



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