



Maintenance-Free Rechargeable Sealed Lead-Acid Battery



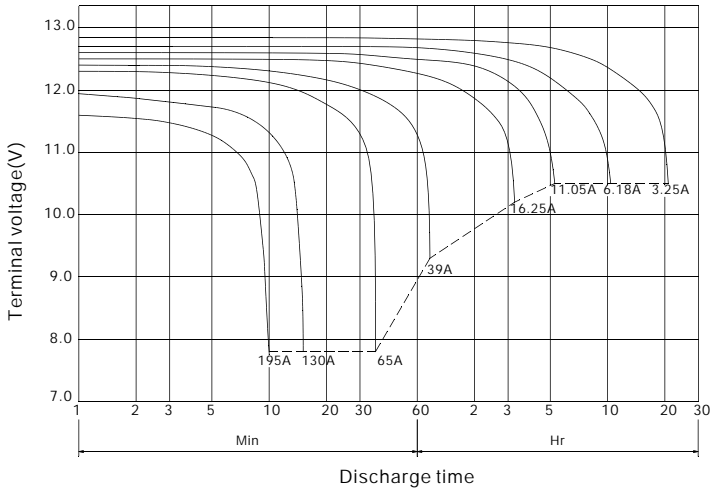
BP65-12

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 use in any direction and position without leakage.

PERFORMANCE SPECIFICATIONS

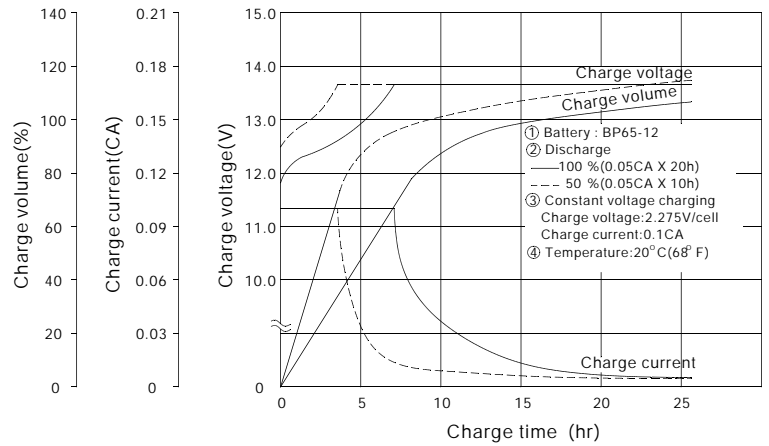
| | |
|---|----------------------------|
| Nominal Voltage(V)..... | 12 volts(6cells in series) |
| Nominal Capacity(AH) | |
| 20 Hour rate F.V.(1.75V/cell) (3.25A to 10.50volts) | 65.0A.H. |
| 10 Hour rate F.V.(1.75V/cell) (6.18A to 10.50volts) | 61.8A.H. |
| 5 Hour rate F.V.(1.75V/cell) (11.05A to 10.50volts)..... | 55.3A.H. |
| 1 Hour rate F.V.(1.55V/cell) (39.0A to 9.30volts)..... | 39.0A.H. |
| Approximate Weight..... | 24.5kg(54.02lbs.) |
| Terminal | |
| Standard..... | Type B2-2 |
| Internal Resistance (Fully Charged Battery)..... | <5m Ω |
| Maximum Discharge Current For 5 sec. (A)..... | 650A |
| Maximum Charge Current(A)..... | 19.5A |
| 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, TELCOM, Golf-Carts. |

BP65-12 Battery discharge characteristics (25°C/77°F)



BATTERY CHARGING CHARACTERISTICS

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

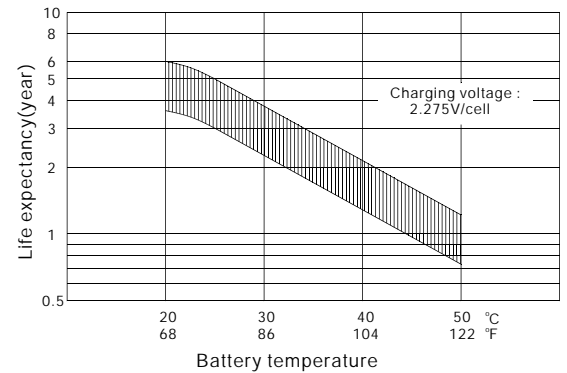


Charging Procedure

| 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 | |

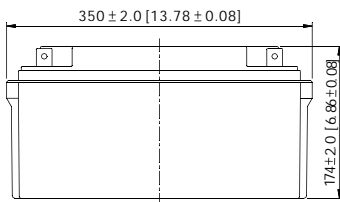
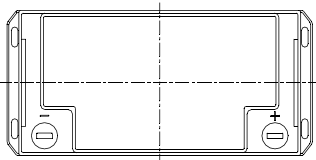
*Temperature compensation of charging voltage is not needed, when using the batteries within 5°C to 35°C range.

Effect of Temperature on Long Term Float Life



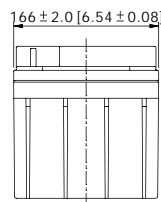
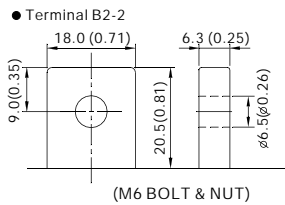
OUTER DIMENSIONS

mm(inch)



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 |
| | Battery output power (W) | | | | | | | | |
| 10.80V | 2350 | 1730 | 1386 | 825 | 473 | 189 | 131 | 73 | 38.2 |
| 10.50V | 2720 | 1874 | 1450 | 856 | 487 | 193 | 133 | 74.1 | 39 |
| 10.20V | 2890 | 1942 | 1495 | 876 | 496 | 195 | 133.5 | 74.5 | 39.2 |
| 9.90V | 3020 | 1988 | 1529 | 888 | 502 | 196 | 134 | 74.7 | 39.3 |
| 9.60V | 3120 | 2028 | 1560 | 897 | 507 | 197 | 134 | 74.7 | 39.3 |

TERMINAL POSITION



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