



Maintenance-Free Rechargeable Sealed Lead-Acid Battery

EVP35-12

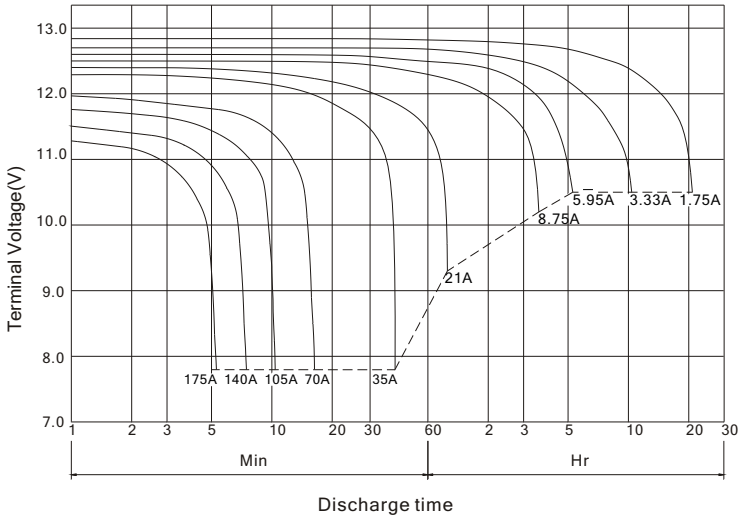


The battery is constructed by plates, separators, safety valves and container. Since the electrolyte is held by a glass-mat separator and plates, the battery can use in any direction and position without leakage.

PERFORMANCE SPECIFICATIONS

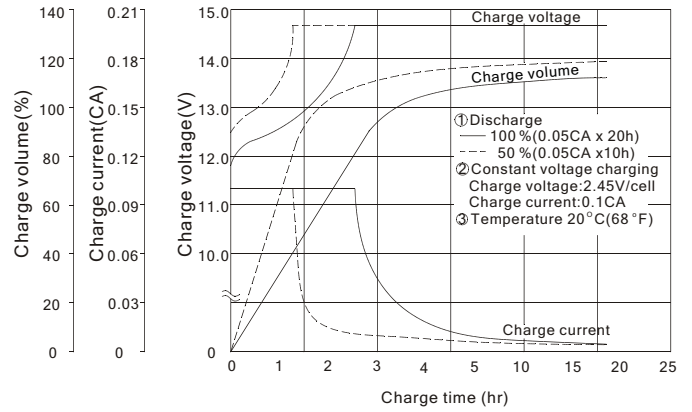
| | |
|---|---|
| Nominal Voltage(V)..... | 12 volts(6cells in series) |
| Nominal Capacity(AH) | |
| 20 Hour rate F.V.(1.75V/cell) (1.75A to 10.50volts) | 35.0A.H. |
| 5 Hour rate F.V.(1.75V/cell) (5.95A to 10.50volts) | 29.8A.H. |
| 30 Min rate F.V.(1.30V/cell) (43.75A to 7.80volts)..... | 21.9A.H. |
| Approximate Weight..... | 12.50kg(27.571lbs.) |
| Terminal | |
| Standard..... | Type B2-1 |
| Optional..... | Type I2 |
| Internal Resistance (Fully Charged Battery)..... | <6m Ω |
| Maximum Discharge Current For 5 sec.(A)..... | 525A |
| Maximum Charge Current(A)..... | 10.5A |
| 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 ±1.5mm..... | 210/8.27 |
| Width ±1.5mm..... | 129/5.08 |
| Container Height ±1.5mm..... | 168/6.61 |
| Total Height ±2mm..... | 179/7.05 |
| Application..... | Wheelchairs, Lawn Mowers, Electronic Medical Equipment, Golf-Carts. |

EVP35-12 Battery discharge characteristics (25 °C/77 °F)



Battery Charging Characteristics

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



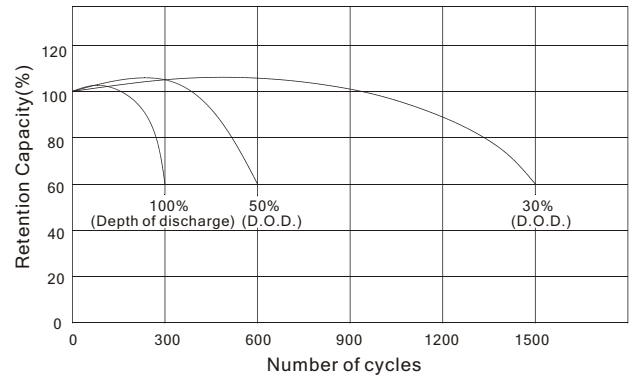
Charging Procedure

| 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 | |

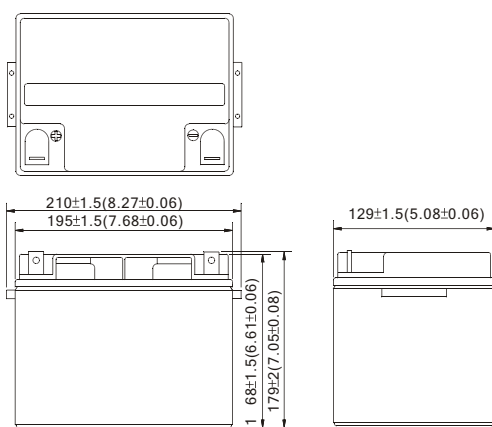
*Temperature compensation of charging voltage is not needed, when using the batteries within 5 °C to 35 °C range.

Battery Life Characteristics of Cyclic Use

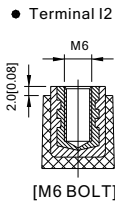
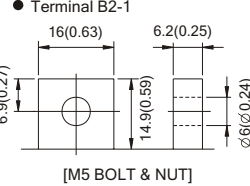
Testing Conditions : Discharge Current : 1C Amp (F.V. 1.60V/cell)
Charging Current : 0.1C Amp
Charging Volume : 120% OF Discharge Capacity
Ambient Temperature : 20 °C (68 °F)



OUTER DIMENSIONS



TERMINAL TYPE



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

| Final Voltage | Discharge time | | | | | | | | |
|---------------|-------------------------|-------|-------|-------|-------|-----|-------|------|------|
| | 5Min | 10Min | 15Min | 30Min | 45Min | 1Hr | 3Hr | 5Hr | 10Hr |
| | Battery output power(W) | | | | | | | | |
| 10.80V | 1503 | 1065 | 806 | 475 | 340 | 274 | 110 | 70 | 39.2 |
| 10.50V | 1740 | 1154 | 846 | 495 | 355 | 283 | 113 | 71.4 | 40 |
| 10.20V | 1849 | 1200 | 871 | 508 | 362 | 289 | 115 | 72.1 | 40.2 |
| 9.90V | 1932 | 1227 | 891 | 518 | 367 | 292 | 116 | 72.5 | 40.3 |
| 9.60V | 1996 | 1249 | 907 | 525 | 371 | 294 | 116.5 | 72.7 | 40.3 |

TERMINAL POSITION



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