



Maintenance-Free Rechargeable Sealed Lead-Acid Battery



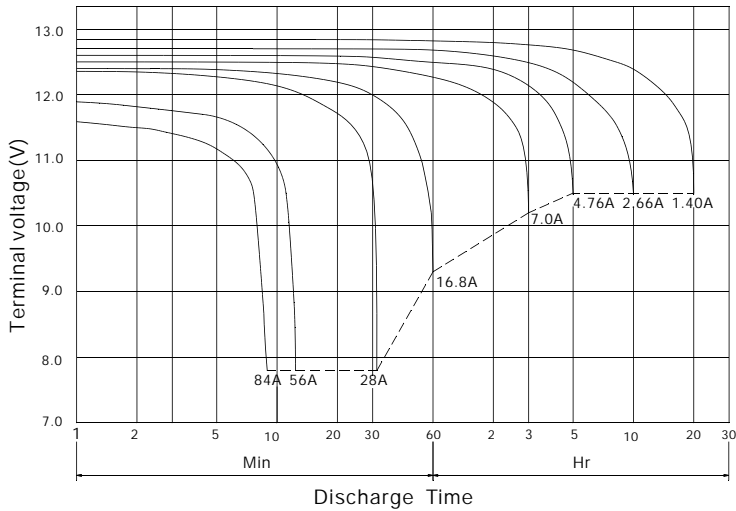
EP28-12

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

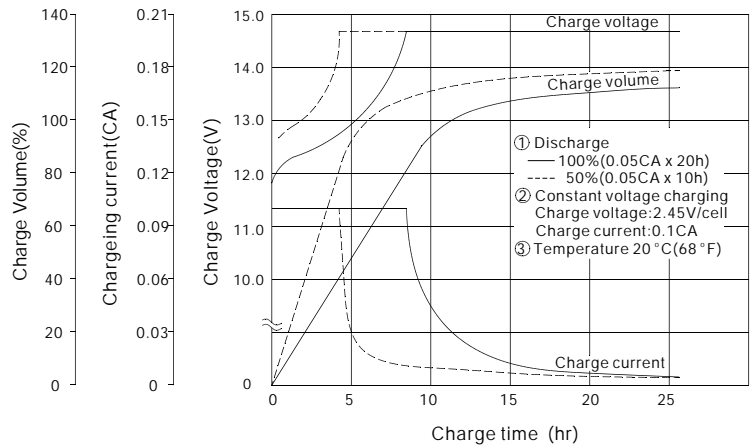
| | |
|--|--|
| Nominal Voltage(V)..... | 12 volts(6cells in series) |
| Nominal Capacity(AH) | |
| 20 Hour rate F.V.(1.75V/cell) (1.40A to 10.5volts)..... | 28.0AH |
| 10 Hour rate F.V.(1.75V/cell) (2.66A to 10.5volts)..... | 26.6AH |
| 5 Hour rate F.V.(1.75V/cell) (4.76A to 10.5volts)..... | 23.8AH |
| 30 Min rate F.V.(1.30V/cell) (28.0A to 7.80volts)..... | 14.0AH |
| Approximate Weight..... | 9700g(21.38lbs.) |
| Terminal | |
| Standard..... | Type B1 |
| Optional..... | Type T2.I1 |
| Internal Resistance (Fully Charged Battery)..... | <10mΩ |
| Maximum Discharge Current For 5 sec.(A)..... | 420A |
| Maximum Charge Current (A)..... | 8.4A |
| 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..... | 175/6.89 |
| Width ±1.5mm..... | 166/6.54 |
| Container Height ±1.5mm..... | 125/4.92 |
| Total Height ±2.0mm..... | 125/4.92 |
| Application..... | Wheelchairs, Lawn Mowers, Electric Vehicles, Golf-Carts. |

EP28-12 Battery discharge characteristics (25 °C/77 °F)



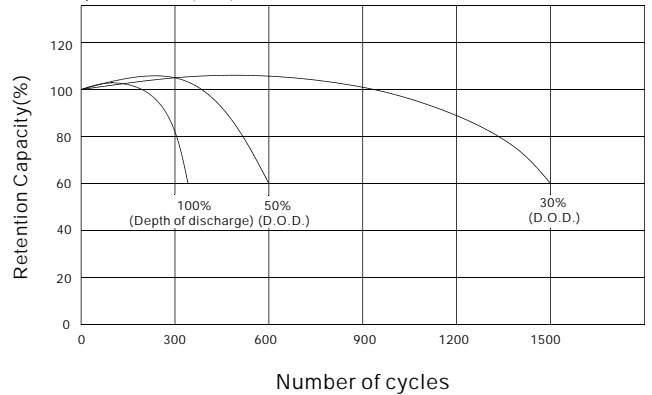
BATTERY CHARGING CHARACTERISTICS

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



Battery Life Characteristics of Cyclic Use

Testing Conditions : Discharge Current : 0.25C Amp(F.V. 1.7V/cell)
 Charging Current : 0.1C Amp
 Charging Volume : 120% OF Discharge Capacity
 Ambient Temperature : 20 °C (68 °F)



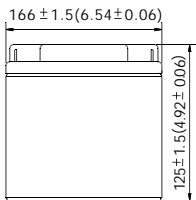
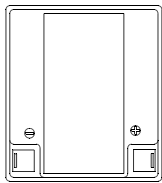
Charging Procedure

| 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.

OUTER DIMENSIONS

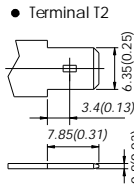
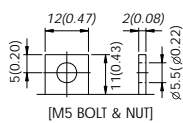
mm(inch)



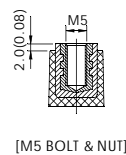
TERMINAL TYPE

mm(inch)

- Terminal B1



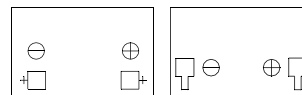
- Terminal I1



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

| Final Voltage | Discharge time | | | | | | | | |
|---------------|----------------|-------|-------|-------|-------|------|------|-------|-------|
| | 5Min | 10Min | 15Min | 30Min | 1Hr | 3Hr | 5Hr | 10Hr | 20Hr |
| 10.80V | 912 | 685.6 | 555.2 | 334.0 | 193.6 | 81.6 | 56.4 | 31.44 | 16.44 |
| 10.50V | 1056 | 742.8 | 581.2 | 346.8 | 199.2 | 83.2 | 57.2 | 31.92 | 16.80 |
| 10.20V | 1120 | 769.6 | 598.8 | 354.4 | 202.8 | 84.0 | 57.6 | 32.08 | 16.88 |
| 9.90V | 1172 | 788.0 | 612.8 | 359.6 | 205.6 | 84.8 | 58.0 | 32.16 | 16.92 |
| 9.60V | 1208 | 803.6 | 624.8 | 363.2 | 207.6 | 85.2 | 58.0 | 32.16 | 16.92 |

TERMINAL POSITION



B.B. BATTERY CO., LTD. Web Site: <http://www.bb-battery.com>

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 FAX: 1-323-278-1268

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 FAX: 81-426-256-537

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