



Valve Regulated Lead-Acid Rechargeable Battery



BP33-12F

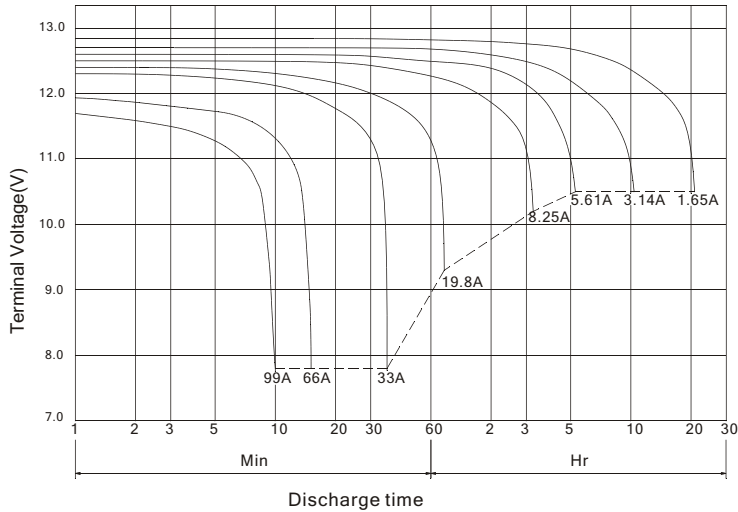
Finger Type

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

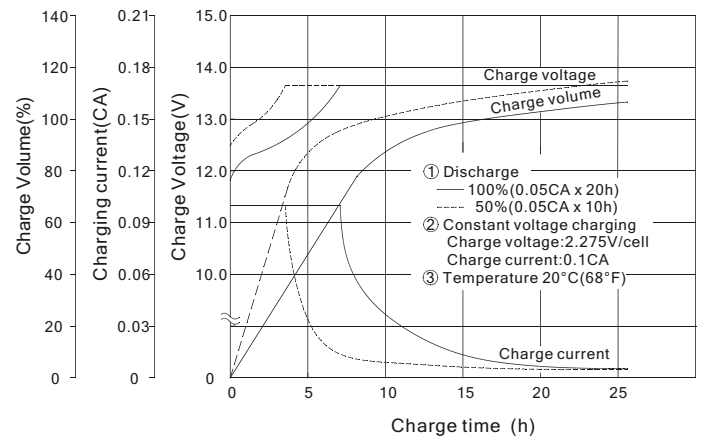
| | |
|---|--|
| Nominal Voltage(V)..... | 12 volts(6cells in series) |
| Nominal Capacity(Ah) | |
| 20 hour rate F.V.(1.75V/cell) (1650mA to 10.5volts) | 33.0 Ah |
| 10 hour rate F.V.(1.75V/cell) (3140mA to 10.5volts) | 31.4 Ah |
| 5 hour rate F.V.(1.75V/cell) (5610mA to 10.5volts) | 28.1 Ah |
| 1 hour rate F.V.(1.55V/cell) (19800mA to 9.30volts)..... | 19.8 Ah |
| Approximate Weight..... | 11250g(24.81lbs.) |
| Terminal | |
| Standard..... | Type B7 |
| Optional..... | Type I2 |
| Internal Resistance (Fully Charged Battery)..... | <9mΩ |
| Maximum Discharge Current For 5 sec.(A)..... | 495A |
| Maximum Charge Current(A)..... | 9.9A |
| 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 ±1.5mm..... | 195/7.68 |
| 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, UPS, Golf-Carts. |

BP33-12F Battery discharge characteristics (25°C/77°F)



Battery Charging Characteristics

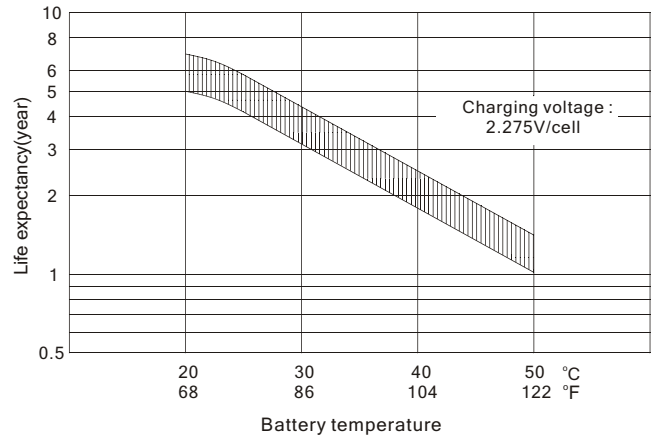
(Typical example of charge characteristics for the standby use)



Charging Procedure

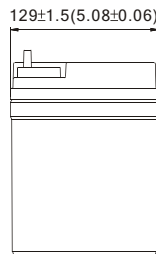
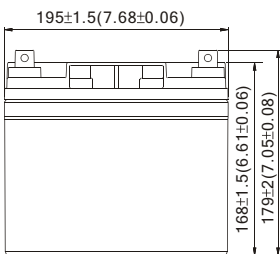
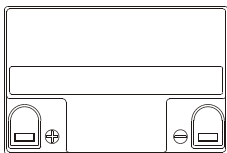
| Application | Charging method | Charging Voltage at 20°C (V/cell) | Temperature compensation coefficient of charging voltage (mV/°C/cell) | Max. charging current (CA) | Charging time 0.1CA, 20°C (h) | | Temp (°C) |
|--------------------------|---|-----------------------------------|---|----------------------------|-------------------------------|--------------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

Effect of Temperature on Long Term Float Life



OUTER DIMENSIONS

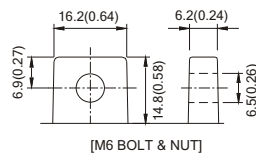
mm(inch)



TERMINAL TYPE

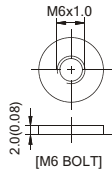
mm(inch)

● Terminal B7



[M6 BOLT & NUT]

● Terminal I2

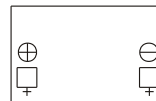


[M6 BOLT]

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 | 1193.1 | 878.3 | 703.9 | 418.8 | 240.18 | 96.19 | 66.32 | 37.06 | 19.38 |
| 10.50V | 1381.0 | 951.6 | 736.2 | 434.7 | 247.38 | 98.11 | 67.32 | 37.62 | 19.80 |
| 10.20V | 1467.3 | 985.8 | 759.0 | 444.7 | 251.83 | 99.00 | 67.69 | 37.81 | 19.89 |
| 9.90V | 1533.2 | 1009.4 | 776.5 | 450.9 | 254.85 | 99.69 | 67.92 | 37.92 | 19.94 |
| 9.60V | 1584.0 | 1029.6 | 792.0 | 455.4 | 257.40 | 100.29 | 68.13 | 37.92 | 19.94 |

TERMINAL POSITION



B.B. BATTERY CO., LTD.

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