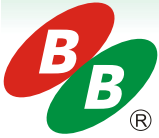




Measures Technology Values Innovation



VRLA Rechargeable Battery

BC12-12 (BC12-12FR)

FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- Can be used in any orientation(excluding used inverted)
- Absorbent Glass Mat technology for efficient gas recombination
- Its design life is up to 5 years in floating application

APPLICATION

- UPS
- Laboratory Equipment
- Power Packs
- Fishing Lights



SPECIFICATIONS

| | | |
|-----------------------------|------------------------------|------------------------|
| Nominal Voltage | 12V | |
| Nominal Capacity | 20 Hour Rate (600mA, 10.5V) | 12.0 Ah |
| | 10 Hour Rate (1140mA, 10.5V) | 11.4 Ah |
| | 5 Hour Rate (2040mA, 10.5V) | 10.2 Ah |
| | 1 Hour Rate (7200mA, 9.30V) | 7.20 Ah |
| Approx. Weight | 3350g(7.39lbs.) | |
| Terminals | T2 (Faston Tab 250) | |
| Max. Discharge Current | 180 A (5 sec.) | |
| Max. Charge Current | 3.60 A | |
| Operating Temperature Range | Charge | 0°C~40°C(32°F~104°F) |
| | Discharge | -20°C~50°C(-4°F~122°F) |
| | Storage | -20°C~40°C(-4°F~104°F) |
| Self Discharge | < 3% per month (25°C) | |
| Internal Resistance | ≤18mΩ (Fully Charged) | |

CONTAINER MATERIAL

- BC12-12:
ABS: UL 94-HB (Dark gray color)
- BC12-12FR:
ABS: UL 94-V0 (Light gray color)

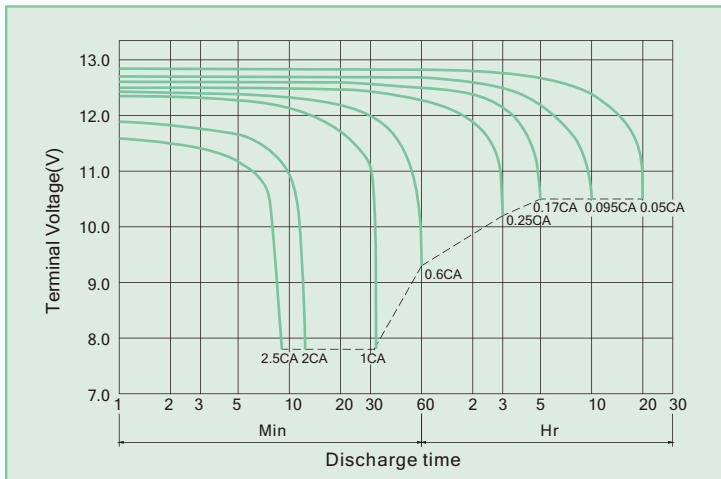
| | |
|-----------------------|---------------------------------|
| WSE ISO9001 | WSE ISO14001 |
| UL MH19884 | CE C4M20310-2474-E-16 |
| UL | CE |
| ● IEC 61056-1 | ● JIS C 8702-1 |
| ● GB/T 19639.1 | |

| OUTER DIMENSIONS mm(inch) | Length (L) | Width (W) | Container Height (H) | Total Height (TH) |
|---------------------------|--------------------|-------------------|----------------------|-------------------|
| | 151±1.5(5.94±0.06) | 98±1.5(3.86±0.06) | 94±1.5(3.70±0.06) | 98±2.0(3.86±0.08) |

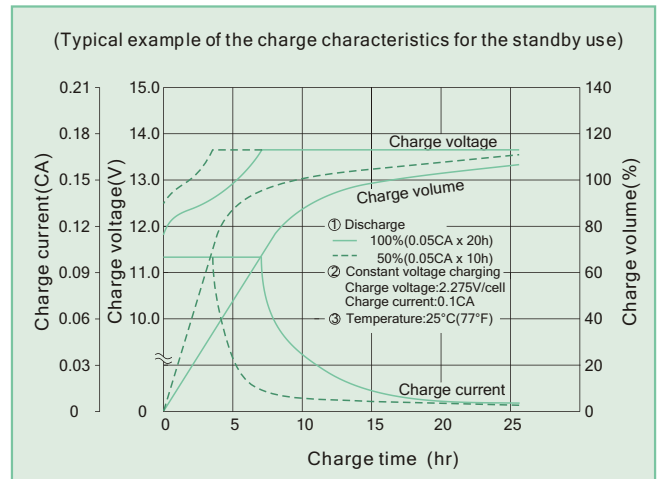
TERMINAL TYPE

- Terminal T2

BC12-12 (BC12-12FR) discharge characteristics (25°C/77°F)



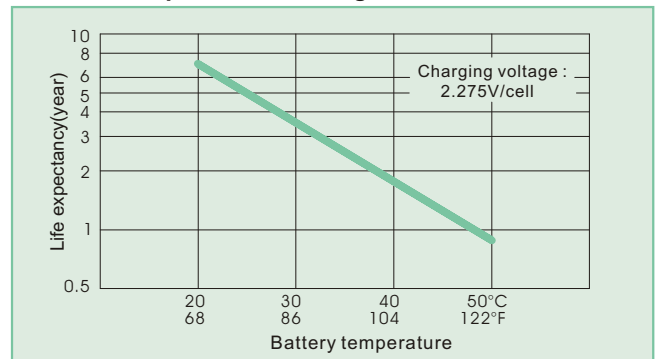
Battery Charging Characteristics



Charging Procedure

| Application | Charging method | Charging Voltage at 25°C (V/cell) | Temperature compensation coefficient of charging voltage (mV/°C/cell) | Max. charging current (CA) | Charging time 0.1CA, 25°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



Constant power discharge characteristics at 25 °C/77 °F Unit: W

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|--------------------------------|-------|--------|--------|--------|------|------|------|-------|-------|
| 1.80V | 433.9 | 319.4 | 256.0 | 152.3 | 87.3 | 35.0 | 24.1 | 13.48 | 7.09 |
| 1.75V | 502.2 | 346.0 | 267.7 | 158.1 | 90.0 | 35.7 | 24.5 | 13.68 | 7.20 |
| 1.70V | 533.6 | 358.5 | 276.0 | 161.7 | 91.6 | 36.0 | 24.6 | 13.75 | 7.24 |
| 1.65V | 557.5 | 367.1 | 282.4 | 164.0 | 92.7 | 36.3 | 24.7 | 13.79 | 7.26 |
| 1.60V | 576.0 | 374.4 | 288.0 | 165.6 | 93.6 | 36.5 | 24.8 | 13.79 | 7.26 |

Constant current discharge characteristics at 25 °C/77 °F Unit: A

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|--------------------------------|-------|--------|--------|--------|------|------|------|-------|-------|
| 1.80V | 39.09 | 28.12 | 22.26 | 12.91 | 7.34 | 2.91 | 2.01 | 1.123 | 0.591 |
| 1.75V | 46.07 | 30.46 | 23.28 | 13.40 | 7.56 | 2.97 | 2.04 | 1.140 | 0.600 |
| 1.70V | 48.95 | 31.55 | 24.00 | 13.70 | 7.70 | 3.00 | 2.05 | 1.146 | 0.603 |
| 1.65V | 51.15 | 32.31 | 24.55 | 13.89 | 7.79 | 3.02 | 2.06 | 1.149 | 0.605 |
| 1.60V | 52.84 | 32.96 | 25.04 | 14.03 | 7.87 | 3.04 | 2.06 | 1.149 | 0.605 |

All data shall be changed without prior notice, BB reserves the right to explain and update the information contained hereinto.

Trial B/0 REV. Oct. 2012

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