



VRLA Rechargeable Battery

BP33-12 Handle Type



FEATURES

- Maintenance free(no water topping-up required).
- No free acid(Non-spillable battery).
- Low self-discharge rate, lower than 3% capacity loss per month.
- Can be used in any orientation(excluding used inverted).
- Absorbent Glass Mat technology for efficient gas recombination.

APPLICATION

- UPS
- Wheelchairs
- Lawn Mowers
- Golf-Carts
- Electronic Medical Equipment

SPECIFICATIONS

| | |
|-----------------------------|--|
| Nominal Voltage | 12 V |
| Nominal Capacity | 33.0Ah @ 20 hour rate F.V.(1.75V/cell) |
| Approx. Weight | 11250g(24.81lbs.) |
| Terminals | B7 (Fitting M6 bolt & nut) I2 is optional |
| Internal Resistance | ≤9mΩ (Fully Charged) |
| Max. Discharge Current | 495 A (5 sec.) |
| Max. Charge Current | 9.9 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) |
| Container Material | Standard: ABS(UL 94-HB) BP33-12 Optional: Flame Retardant ABS(UL 94-V0) BP33-12FR |

- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

| DIMENSION(mm/inch) | OUTER DIMENSIONS | TERMINAL TYPE |
|--|------------------|--|
| <p>■ Length 210±1.5 (8.27±0.06)</p> <p>■ Width 129±1.5 (5.08±0.06)</p> <p>■ Container Height 168±1.5 (6.61±0.06)</p> <p>■ Total Height B7:179±2.0 (7.05±0.08) I2:168±2.0 (6.61±0.08)</p> | | <p>● Terminal B7</p> <p>[M6 BOLT & NUT]</p> <p>● Terminal I2</p> <p>[M6 BOLT]</p> <p>Terminal Hardware Initial Torque: B7/I2(5.5Nm±5%)</p> |

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 | 1193 | 878 | 704 | 419 | 240.2 | 96.2 | 66.3 | 37.06 | 19.50 |
| 1.75V | 1381 | 952 | 736 | 435 | 247.4 | 98.1 | 67.3 | 37.62 | 19.80 |
| 1.70V | 1467 | 986 | 759 | 445 | 251.8 | 99.0 | 67.7 | 37.81 | 19.90 |
| 1.65V | 1533 | 1009 | 776 | 451 | 254.9 | 99.7 | 67.9 | 37.92 | 19.96 |
| 1.60V | 1584 | 1030 | 792 | 455 | 257.4 | 100.3 | 68.1 | 37.92 | 19.96 |

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 | 107.5 | 77.3 | 61.2 | 35.5 | 20.18 | 8.02 | 5.53 | 3.09 | 1.63 |
| 1.75V | 126.7 | 83.8 | 64.0 | 36.8 | 20.79 | 8.18 | 5.61 | 3.13 | 1.65 |
| 1.70V | 134.6 | 86.8 | 66.0 | 37.7 | 21.16 | 8.25 | 5.64 | 3.15 | 1.66 |
| 1.65V | 140.7 | 88.9 | 67.5 | 38.2 | 21.42 | 8.31 | 5.66 | 3.16 | 1.66 |
| 1.60V | 145.3 | 90.6 | 68.9 | 38.6 | 21.63 | 8.36 | 5.68 | 3.16 | 1.66 |

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