



VRLA Rechargeable Battery

HR40-12 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).
- The battery is designed for high rate usage.
- Absorbent Glass Mat technology for efficient gas recombination.
- The power density at 5 min~15min discharging rate is 30% higher than BP series.

APPLICATION

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



SPECIFICATIONS

| | |
|-----------------------------|---|
| Nominal Voltage | 12 V |
| Nominal Capacity | 38Ah @ 10 hour rate F.V.(1.75V/cell) |
| Approx. Weight | 12.1Kg(26.68lbs.) |
| Terminals | B7 (Fitting M6 bolt & nut) I2 is optional |
| Internal Resistance | ≤6mΩ (Fully Charged) |
| Max. Discharge Current | 495 A (5 sec.) |
| Max. Charge Current | 11.4 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) HR40-12 Optional: Flame Retardant ABS(UL 94-V0) HR40-12FR |

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

| DIMENSION(mm/inch) | OUTER DIMENSIONS | TERMINAL TYPE |
|---|------------------|--|
| <ul style="list-style-type: none"> ■ Length 210±1.5 (8.27±0.06) ■ Width 129±1.5 (5.08±0.06) ■ Container Height 168±1.5 (6.61±0.06) ■ Total Height B7:179±2.0 (7.05±0.08) I2:168±2.0 (6.61±0.08) | | <ul style="list-style-type: none"> ● Terminal B7 ● Terminal I2 <p>[M6 BOLT & NUT] [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 | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V | 1640.0 | 1120.0 | 811.0 | 692.0 | 526.0 | 400.0 | 334.0 | 294.0 | 162.2 |
| 1.70V | 1960.0 | 1250.0 | 882.0 | 733.0 | 548.0 | 415.0 | 345.0 | 301.0 | 165.3 |
| 1.60V | 2100.0 | 1315.0 | 922.0 | 760.0 | 560.0 | 425.0 | 352.0 | 306.0 | 168.0 |
| 1.50V | 2160.0 | 1340.0 | 942.0 | 772.0 | 567.0 | 430.0 | 356.0 | 309.0 | 168.9 |
| 1.40V | 2200.0 | 1358.0 | 953.0 | 779.0 | 571.0 | 433.0 | 359.0 | 311.0 | 169.3 |
| 1.30V | 2220.0 | 1370.0 | 960.0 | 784.0 | 574.0 | 435.0 | 361.0 | 312.0 | 169.8 |

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

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|--------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V | 146.43 | 98.25 | 70.16 | 59.35 | 44.58 | 33.64 | 27.95 | 24.50 | 13.52 |
| 1.70V | 178.18 | 109.65 | 76.30 | 62.86 | 46.44 | 34.90 | 28.87 | 25.08 | 13.78 |
| 1.60V | 190.91 | 115.35 | 79.76 | 65.18 | 47.46 | 35.74 | 29.46 | 25.50 | 14.00 |
| 1.50V | 196.36 | 117.54 | 81.49 | 66.21 | 48.05 | 36.16 | 29.79 | 25.75 | 14.08 |
| 1.40V | 200.00 | 119.12 | 82.44 | 66.81 | 48.39 | 36.42 | 30.04 | 25.92 | 14.11 |
| 1.30V | 201.82 | 120.18 | 83.04 | 67.24 | 48.64 | 36.59 | 30.21 | 26.00 | 14.15 |

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