



VRLA Rechargeable Battery

HR9-12



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
- Fishing Lights
- Power Packs
- Laboratory Equipment
- Fishing Lights Booster
- Toy-Cars



SPECIFICATIONS

| | |
|-----------------------------|---|
| Nominal Voltage | 12 V |
| Nominal Capacity | 8.0Ah @ 10 hour rate F.V.(1.75V/cell) |
| Approx. Weight | 2750g(6.06lbs.) |
| Terminals | T2 (Faston Tab 250) , T1 and B0 are optional |
| Internal Resistance | ≤15mΩ (Fully Charged) |
| Max. Discharge Current | 120 A (5 sec.) |
| Max. Charge Current | 2.4 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) HR9-12 Optional: Flame Retardant ABS(UL 94-V0) HR9-12FR |

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

| DIMENSION(mm/inch) | OUTER DIMENSIONS | TERMINAL TYPE |
|--|------------------|---|
| <p>■ Length</p> <p>151±1.5 (5.94±0.06)</p> <p>■ Width</p> <p>65±1.5 (2.56±0.06)</p> <p>■ Container Height</p> <p>94±1.5 (3.70±0.06)</p> <p>■ Total Height</p> <p>100±2.0 (3.94±0.08)</p> | | <p>● Terminal T1</p> <p>● Terminal T2</p> <p>● Terminal B0</p> <p>[M5 BOLT & NUT]</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 | 369.0 | 252.0 | 182.5 | 155.7 | 118.4 | 90.0 | 75.2 | 66.2 | 36.5 |
| 1.70V | 441.0 | 281.3 | 198.5 | 164.9 | 123.3 | 93.4 | 77.6 | 67.7 | 37.2 |
| 1.60V | 472.5 | 295.9 | 207.5 | 171.0 | 126.0 | 95.6 | 79.2 | 68.9 | 37.8 |
| 1.50V | 486.0 | 301.5 | 212.0 | 173.7 | 127.6 | 96.8 | 80.1 | 69.5 | 38.0 |
| 1.40V | 495.0 | 305.6 | 214.4 | 175.3 | 128.5 | 97.4 | 80.8 | 70.0 | 38.1 |
| 1.30V | 499.5 | 308.3 | 216.0 | 176.4 | 129.2 | 97.9 | 81.2 | 70.2 | 38.2 |

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 | 32.95 | 22.11 | 15.79 | 13.35 | 10.03 | 7.57 | 6.29 | 5.52 | 3.04 |
| 1.70V | 40.09 | 24.68 | 17.17 | 14.14 | 10.45 | 7.86 | 6.49 | 5.64 | 3.10 |
| 1.60V | 42.95 | 25.96 | 17.95 | 14.67 | 10.68 | 8.04 | 6.63 | 5.74 | 3.15 |
| 1.50V | 44.18 | 26.45 | 18.34 | 14.90 | 10.81 | 8.14 | 6.70 | 5.79 | 3.17 |
| 1.40V | 45.00 | 26.81 | 18.55 | 15.03 | 10.89 | 8.19 | 6.76 | 5.83 | 3.18 |
| 1.30V | 45.41 | 27.04 | 18.69 | 15.13 | 10.95 | 8.23 | 6.79 | 5.85 | 3.18 |

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