

VRLA Rechargeable Battery

HR6-12 (HR6-12FR)



Measures

Technology

Values

Innovation

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



SPECIFICATIONS

| | |
|-----------------------------|--|
| Nominal Voltage | 12 V |
| Nominal Capacity | 5.5Ah @ 10 hour rate F.V.(1.75V/cell) |
| Approx. Weight | 2100g(4.63lbs.) |
| Terminals | T1 (Faston Tab 187) T2 is optional |
| Internal Resistance | ≤22mΩ (Fully Charged) |
| Max. Discharge Current | 82.5 A (5 sec.) |
| Max. Charge Current | 1.65 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 | ABS(UL94-HB, UL94-V0 is optional) |

| | |
|---|--|
| ISO 9001 | |
| ISO14001 | |
| UL | |
| CE | |
| <ul style="list-style-type: none"> • IEC 61056-1 • JIS C 8702-1 • GB/T 19639.1 | |

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

151±1.5 (5.94±0.06)

Width

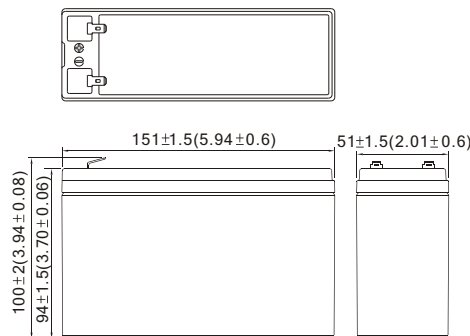
51±1.5 (2.01±0.06)

Container Height

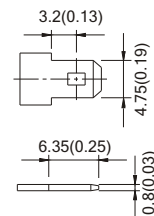
94±1.5 (3.70±0.06)

Total Height

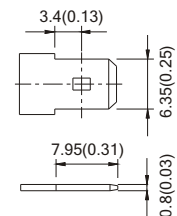
100±2.0 (3.94±0.08)



Terminal T1



Terminal T2



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 | 246.0 | 168.0 | 121.7 | 103.8 | 78.9 | 60.0 | 50.1 | 44.1 | 24.3 |
| 1.70V | 294.0 | 187.5 | 132.3 | 109.9 | 82.2 | 62.3 | 51.7 | 45.1 | 24.8 |
| 1.60V | 315.0 | 197.3 | 138.3 | 114.0 | 84.0 | 63.7 | 52.8 | 45.9 | 25.2 |
| 1.50V | 324.0 | 201.0 | 141.3 | 115.8 | 85.1 | 64.5 | 53.4 | 46.3 | 25.3 |
| 1.40V | 330.0 | 203.7 | 142.9 | 116.9 | 85.7 | 64.9 | 53.9 | 46.7 | 25.4 |
| 1.30V | 333.0 | 205.5 | 144.0 | 117.6 | 86.1 | 65.3 | 54.1 | 46.8 | 25.5 |

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 | 21.96 | 14.74 | 10.53 | 8.90 | 6.69 | 5.05 | 4.19 | 3.68 | 2.03 |
| 1.70V | 26.73 | 16.45 | 11.44 | 9.43 | 6.97 | 5.24 | 4.33 | 3.76 | 2.07 |
| 1.60V | 28.64 | 17.31 | 11.96 | 9.78 | 7.12 | 5.36 | 4.42 | 3.83 | 2.10 |
| 1.50V | 29.45 | 17.63 | 12.22 | 9.93 | 7.21 | 5.42 | 4.47 | 3.86 | 2.11 |
| 1.40V | 30.00 | 17.87 | 12.36 | 10.03 | 7.26 | 5.46 | 4.51 | 3.89 | 2.12 |
| 1.30V | 30.27 | 18.03 | 12.46 | 10.09 | 7.30 | 5.49 | 4.53 | 3.90 | 2.13 |

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