



VRLA Rechargeable Battery

SHR10-12



FEATURES

- Maintenance free(no water topping-up required)
- No free acid(Non-spillable battery)
- 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 2 min~15min discharging rate is 50% higher than BP series

APPLICATION

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



SPECIFICATIONS

| | |
|-----------------------------|---|
| Nominal Voltage | 12 V |
| Nominal Capacity | 15 Min Rate (40W, 1.60V/Cell) |
| Approx. Weight | 2700g(5.95lbs.) |
| Terminals | T2 (Faston Tab 250) , T1 and B0 are optional |
| Internal Resistance | ≤12mΩ (Fully Charged) |
| Max. Discharge Current | 130 A (5 sec.) |
| Max. Charge Current | 2.7 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) SHR10-12 Optional: Flame Retardant ABS(UL 94-V0) SHR10-12FR |

| | |
|---|---------------------------------|
| USF ISO9001 | UL MH19884 |
| USF ISO14001 | CE CAM20310-2474-E-16 |
| USF OHSMS | |
| <ul style="list-style-type: none"> ● 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 151±1.5 (5.94±0.06) ■ Width 65±1.5 (2.56±0.06) ■ Container Height 94±1.5 (3.70±0.06) ■ Total Height 100±2.0 (3.94±0.08) | | <ul style="list-style-type: none"> ● Terminal T1 3.2(0.13) 4.75(0.19) 6.35(0.25) 0.8(0.03) ● Terminal T2 3.4(0.13) 6.35(0.25) 7.95(0.31) 0.8(0.03) ● Terminal B0 10(0.39) 1.4(0.06) 4.8(0.19) 12(0.47) 0.8(0.03) 5.5(0.22) <p>[M5 BOLT & NUT]</p> |

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

| F.V. (V/cell) | Discharge Time | 2 Min | 3 Min | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|---------------|----------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V | | 760 | 609 | 451 | 294 | 239 | 186 | 136.6 | 99.6 | 86.8 | 77.9 | 42.0 |
| 1.75V | | 815 | 655 | 483 | 312 | 245 | 190 | 139.6 | 102.5 | 89.0 | 79.0 | 42.7 |
| 1.70V | | 857 | 686 | 503 | 318 | 248 | 194 | 141.0 | 103.7 | 89.8 | 79.5 | 42.9 |
| 1.67V | | 876 | 707 | 521 | 326 | 251 | 196 | 142.3 | 104.7 | 90.5 | 79.7 | 43.5 |
| 1.60V | | 892 | 725 | 540 | 332 | 252 | 197 | 143.5 | 106.0 | 91.1 | 80.0 | 43.5 |
| 1.50V | | 902 | 732 | 545 | 333 | 253 | 198 | 143.8 | 106.3 | 91.3 | 80.1 | 43.6 |

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

| F.V. (V/cell) | Discharge Time | 2 Min | 3 Min | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|---------------|----------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V | | 70.0 | 55.8 | 40.4 | 25.7 | 20.7 | 15.88 | 11.58 | 8.46 | 7.29 | 6.54 | 3.50 |
| 1.75V | | 75.2 | 60.3 | 43.8 | 27.4 | 21.1 | 16.34 | 11.90 | 8.70 | 7.50 | 6.65 | 3.56 |
| 1.70V | | 79.3 | 63.4 | 45.4 | 28.0 | 21.4 | 16.59 | 12.01 | 8.93 | 7.56 | 6.68 | 3.57 |
| 1.67V | | 81.1 | 65.2 | 47.2 | 28.7 | 21.7 | 16.77 | 12.14 | 8.81 | 7.63 | 6.71 | 3.61 |
| 1.60V | | 82.8 | 67.0 | 49.0 | 29.3 | 21.9 | 16.95 | 12.25 | 9.04 | 7.70 | 6.74 | 3.64 |
| 1.50V | | 83.8 | 67.7 | 49.4 | 29.5 | 22.0 | 16.99 | 12.28 | 9.06 | 7.72 | 6.75 | 3.64 |

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

For operation, please refer to the instruction from technical manual.

A/0 REV. Apr. 2014

Powered by **B.B. Battery Co., Ltd.**