



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

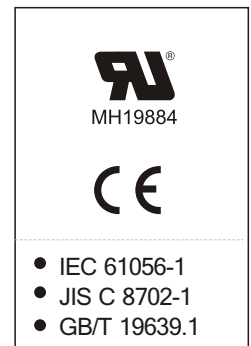
APPLICATIONS

- 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(UL94 HB) SHR10-12 Optional: Flame Retardant ABS(UL94 V-0) SHR10-12FR |



DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

Length

151±1.5 (5.94±0.06)

Width

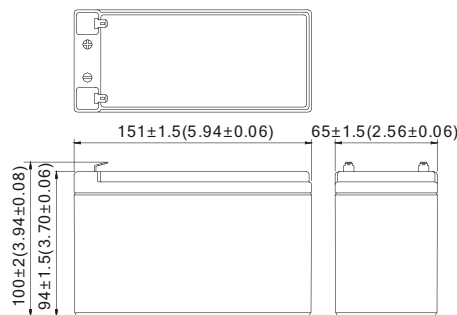
65±1.5 (2.56±0.06)

Container Height

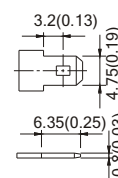
94±1.5 (3.70±0.06)

Total Height

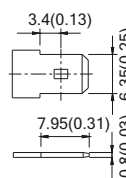
100±2.0 (3.94±0.08)



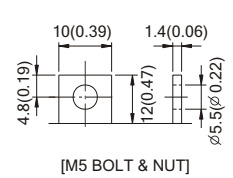
Terminal T1



Terminal T2



Terminal B0



Constant power discharge characteristics at 25 °C/77 °F

Unit: W

| Discharge Time F.V. (V/cell) | 2 Min | 3 Min | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|------------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V | 762.3 | 646.5 | 506.0 | 315.9 | 253.6 | 200.5 | 145.6 | 102.0 | 86.8 | 82.8 | 42.7 |
| 1.75V | 817.4 | 694.9 | 538.9 | 334.8 | 257.1 | 204.9 | 147.0 | 104.9 | 89.0 | 83.4 | 42.9 |
| 1.70V | 863.1 | 735.2 | 557.1 | 349.2 | 259.2 | 207.1 | 148.4 | 106.1 | 89.8 | 83.6 | 43.2 |
| 1.67V | 881.7 | 750.3 | 565.9 | 354.5 | 260.1 | 207.6 | 148.9 | 107.2 | 90.5 | 83.7 | 43.4 |
| 1.60V | 911.3 | 775.5 | 580.8 | 361.7 | 261.6 | 208.2 | 149.2 | 108.5 | 91.1 | 83.9 | 43.5 |
| 1.50V | 912.7 | 776.6 | 581.0 | 362.0 | 261.8 | 208.5 | 149.3 | 108.6 | 91.2 | 84.0 | 43.6 |

Constant current discharge characteristics at 25 °C/77 °F

Unit: A

| Discharge Time F.V. (V/cell) | 2 Min | 3 Min | 5 Min | 10 Min | 15 Min | 20 Min | 30 Min | 40 Min | 50 Min | 60 Min | 120 Min |
|------------------------------------|-------|-------|-------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1.80V | 70.2 | 59.2 | 45.4 | 27.5 | 21.9 | 17.16 | 12.34 | 8.66 | 7.29 | 6.96 | 3.55 |
| 1.75V | 75.4 | 64.0 | 48.8 | 29.3 | 22.2 | 17.64 | 12.53 | 8.91 | 7.50 | 7.02 | 3.58 |
| 1.70V | 79.9 | 67.9 | 50.3 | 30.8 | 22.4 | 17.71 | 12.64 | 9.02 | 7.56 | 7.03 | 3.60 |
| 1.67V | 81.6 | 69.2 | 51.3 | 31.3 | 22.5 | 17.77 | 12.71 | 9.14 | 7.63 | 7.05 | 3.62 |
| 1.60V | 84.6 | 71.7 | 52.6 | 32.0 | 22.8 | 17.91 | 12.72 | 9.25 | 7.70 | 7.07 | 3.64 |
| 1.50V | 84.7 | 71.8 | 52.8 | 32.0 | 22.8 | 17.94 | 12.74 | 9.26 | 7.71 | 7.09 | 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.

C/1 REV.Jan. 2022

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