



VRLA Rechargeable Battery

SH4.5-12



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

APPLICATION

- UPS
- Toy-Cars
- Fans
- Electronic Doorbells



SPECIFICATIONS

| | |
|-----------------------------|--|
| Nominal Voltage | 12 V |
| Nominal Capacity | 4.28Ah @ 10 hour rate F.V.(1.75V/cell) |
| Approx. Weight | 1530g(3.37lbs.) |
| Terminals | T1 (Faston Tab 187) T2 is optional |
| Internal Resistance | ≤42mΩ (Fully Charged) |
| Max. Discharge Current | 67.5 A (5 sec.) |
| Max. Charge Current | 1.35 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) SH4.5-12 Optional: Flame Retardant ABS(UL 94-V0) SH4.5-12FR |

- IEC61056-1
- JIS C 8702-1
- GB/T 19639.1

| DIMENSION(mm/inch) | OUTER DIMENSIONS | TERMINAL TYPE |
|--|------------------|---|
| <p>■ Length</p> <p>90±1.5 (3.54±0.06)</p> <p>■ Width</p> <p>70±1.5 (2.76±0.06)</p> <p>■ Container Height</p> <p>102±1.5 (4.02±0.06)</p> <p>■ Total Height</p> <p>106±2.0 (4.17±0.08)</p> | | <p>• Terminal T1</p> <p>• Terminal T2</p> |

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

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|--------------------------------|-------|--------|--------|--------|-------|-------|------|-------|-------|
| 1.80V | 182.6 | 122.7 | 92.0 | 54.4 | 29.75 | 13.26 | 8.96 | 4.99 | 2.66 |
| 1.70V | 194.2 | 130.6 | 98.3 | 56.8 | 30.49 | 13.45 | 9.18 | 5.14 | 2.70 |
| 1.60V | 208.4 | 134.9 | 101.7 | 57.2 | 31.45 | 13.50 | 9.23 | 5.15 | 2.71 |
| 1.50V | 217.2 | 138.5 | 104.8 | 58.4 | 32.13 | 13.62 | 9.26 | 5.16 | 2.72 |
| 1.40V | 223.9 | 140.3 | 107.5 | 59.2 | 32.37 | 13.67 | 9.29 | 5.17 | 2.73 |
| 1.30V | 224.1 | 141.2 | 108.0 | 59.5 | 32.52 | 13.68 | 9.30 | 5.17 | 2.73 |

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

| F.V. (V/cell) \ Discharge Time | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|--------------------------------|-------|--------|--------|--------|------|-------|-------|-------|-------|
| 1.80V | 16.45 | 10.80 | 8.00 | 4.61 | 2.50 | 1.105 | 0.747 | 0.416 | 0.222 |
| 1.70V | 17.81 | 11.50 | 8.55 | 4.81 | 2.56 | 1.121 | 0.765 | 0.428 | 0.225 |
| 1.60V | 19.12 | 11.88 | 8.84 | 4.85 | 2.64 | 1.125 | 0.769 | 0.429 | 0.226 |
| 1.50V | 19.93 | 12.19 | 9.11 | 4.95 | 2.70 | 1.135 | 0.772 | 0.430 | 0.227 |
| 1.40V | 20.54 | 12.42 | 9.35 | 5.02 | 2.72 | 1.139 | 0.774 | 0.431 | 0.228 |
| 1.30V | 20.56 | 12.43 | 9.39 | 5.04 | 2.73 | 1.140 | 0.775 | 0.431 | 0.228 |

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