

VRLA Rechargeable Battery

EVP20-12



FEATURES

- Absorbent Glass Mat technology for efficient gas recombination
- 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 power & high cyclic usage

APPLICATION

- UPS
- Emergency Lights
- Fishing Lights
- Lawn Mowers
- Electrical Bicycle
- Golf Trolley



SPECIFICATIONS

| | |
|-----------------------------|----------------------------------------------------------------------------------------------------------|
| Nominal Voltage | 12 V |
| Nominal Capacity | 20Ah @ 20 hour rate F.V.(1.75V/cell) |
| Approx. Weight | 6600g(14.55lbs.) |
| Terminals | B1 (Fitting M5 bolt & nut) , T2 and I1 are optional |
| Internal Resistance | ≤9mΩ (Fully Charged) |
| Max. Discharge Current | 300 A (5 sec.) |
| Max. Charge Current | 6.0 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) EVP20-12 Optional: Flame Retardant ABS(UL 94-V0) EVP20-12FR |



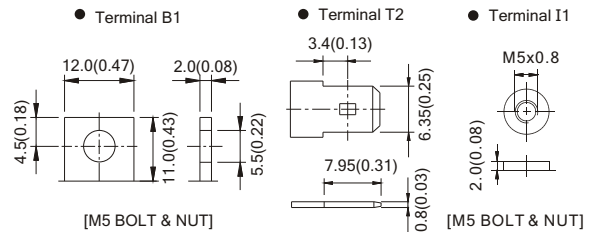
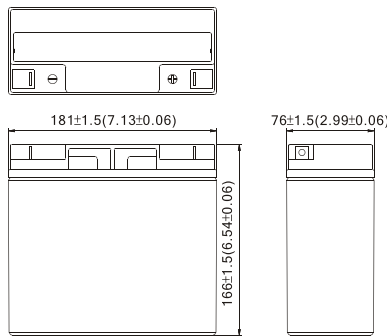
- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1

DIMENSION(mm/inch)

OUTER DIMENSIONS

TERMINAL TYPE

- **Length**
181±1.5 (7.13±0.06)
- **Width**
76±1.5 (2.99±0.06)
- **Container Height**
166±1.5 (6.54±0.06)
- **Total Height**
166±1.5 (6.54±0.06)



Terminal Hardware Initial Torque: B1(2.5Nm±5%),I1(4.0Nm±5%)

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

Unit: W

| Discharge Time F.V. (V/cell) | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|------------------------------------|-------|--------|--------|--------|------|------|------|-------|-------|
| 1.80V | 859 | 609 | 438 | 275 | 157 | 63.6 | 40.2 | 22.4 | 11.7 |
| 1.75V | 995 | 660 | 463 | 285 | 161 | 65.2 | 40.9 | 22.9 | 12.0 |
| 1.70V | 1057 | 686 | 476 | 292 | 165 | 65.7 | 41.2 | 23.0 | 12.1 |
| 1.65V | 1105 | 701 | 489 | 296 | 167 | 66.4 | 41.4 | 23.0 | 12.1 |
| 1.60V | 1141 | 714 | 498 | 300 | 168 | 66.6 | 41.5 | 23.0 | 12.1 |

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

Unit: A

| Discharge Time F.V. (V/cell) | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|------------------------------------|--------|--------|--------|--------|-------|------|------|-------|-------|
| 1.80V | 79.55 | 53.6 | 40.1 | 24.34 | 13.18 | 5.30 | 3.35 | 1.87 | 0.98 |
| 1.75V | 93.83 | 58.0 | 42.0 | 25.26 | 13.56 | 5.44 | 3.41 | 1.91 | 1.00 |
| 1.70V | 99.70 | 60.4 | 43.3 | 25.83 | 13.87 | 5.48 | 3.44 | 1.92 | 1.01 |
| 1.65V | 104.20 | 61.7 | 44.3 | 26.23 | 14.02 | 5.53 | 3.45 | 1.92 | 1.01 |
| 1.60V | 107.63 | 62.9 | 45.0 | 26.55 | 14.13 | 5.55 | 3.46 | 1.92 | 1.01 |

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