



# VRLA Rechargeable Battery

## EP100-12



### FEATURES

- Absorbent Glass Mat technology for efficient gas recombination
- 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 heavy duty cyclic application


### APPLICATION

- UPS
- Telecom
- Golf-Carts




### SPECIFICATIONS

|                             |  |
|-----------------------------|--|
| Nominal Voltage             | 12 V   |
| Nominal Capacity            | 100Ah @ 20 hour rate F.V.(1.75V/cell)  |
| Approx. Weight              | 40.0Kg(88.2lbs.)   |
| Terminals                   | B4 (Fitting M6 bolt & nut) I2 is optional  |
| Internal Resistance         | ≤4.0mΩ (Fully Charged )  |
| Max. Discharge Current      | 800 A (5 sec.)   |
| Max. Charge Current         | 30 A   |
| Operating Temperature Range | Charge 0°C~40°C(32°F~104°F)<br>Discharge -20°C~50°C(-4°F~122°F)<br>Storage. -20°C~40°C(-4°F~104°F) |
| Container Material          | Standard: ABS( UL94 HB) EP100-12<br>Optional: Flame Retardant ABS(UL94 V-0)EP100-12FR              |



MH19884



C4M20310-2474-E-16

- IEC 60896-21/22
- JIS C 8704-2
- GB/T 19638.2

| DIMENSION(mm/inch)   | OUTER DIMENSIONS | TERMINAL TYPE   |
|--|------------------|---|
| <ul style="list-style-type: none"> <li>■ Length<br/>407±2.0 (16.02±0.08)</li> <li>■ Width<br/>173±2.0 (6.81±0.08)</li> <li>■ Container Height<br/>210±2.0 (8.27±0.08)</li> <li>■ Total Height<br/>239±2.0 (9.41±0.08)</li> </ul> |                  | <ul style="list-style-type: none"> <li>● Terminal B4<br/> <p>[M6 BOLT &amp; NUT]</p> </li> <li>● Terminal I2<br/> <p>[M6 BOLT]</p> </li> </ul> <p>Terminal Hardware Initial Torque: B4,I2(5.5Nm±5%)</p> |

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

| Discharge Time<br>F.V.<br>(V/cell) | 15 Min | 30 Min | 1 Hr | 3 Hr | 5 Hr | 10 Hr | 20 Hr |
|------------------------------------|--------|--------|------|------|------|-------|-------|
| 1.80V                              | 1983   | 1193   | 691  | 291  | 201  | 112.3 | 58.7  |
| 1.75V                              | 2076   | 1239   | 711  | 297  | 204  | 114.0 | 60.0  |
| 1.70V                              | 2139   | 1266   | 724  | 300  | 206  | 114.6 | 60.3  |
| 1.65V                              | 2189   | 1284   | 734  | 303  | 207  | 114.9 | 60.4  |
| 1.60V                              | 2231   | 1297   | 741  | 304  | 207  | 114.9 | 60.4  |

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

| Discharge Time<br>F.V.<br>(V/cell) | 15 Min | 30 Min | 1 Hr  | 3 Hr  | 5 Hr  | 10 Hr | 20 Hr |
|------------------------------------|--------|--------|-------|-------|-------|-------|-------|
| 1.80V                              | 178.7  | 105.6  | 58.07 | 24.25 | 16.75 | 9.36  | 4.89  |
| 1.75V                              | 188.7  | 109.6  | 59.75 | 24.75 | 17.00 | 9.50  | 5.00  |
| 1.70V                              | 194.5  | 112.0  | 60.84 | 25.00 | 17.17 | 9.55  | 5.03  |
| 1.65V                              | 199.0  | 113.6  | 61.68 | 25.25 | 17.25 | 9.58  | 5.03  |
| 1.60V                              | 202.8  | 114.8  | 62.27 | 25.33 | 17.25 | 9.58  | 5.03  |

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

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

B/1 REV. Apr. 2019

Powered by **B.B. Tech(Changsha)Co., Ltd.**