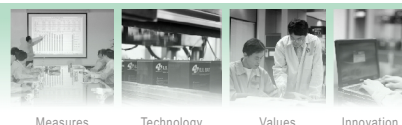


## VRLA Rechargeable Battery

# BP40-12



### FEATURES

- Maintenance Free ( topping up not needed )
- Non - spillable ( no free electrolyte )
- Low Self Discharge, less than 3% per month
- both Vertical & Horizontal installations

### APPLICATIONS

- UPS
- Wheelchairs
- Lawn Mowers
- Golf-Carts
- Electronic Medical Equipment



### SPECIFICATIONS

|                             |                                                                                                      |
|-----------------------------|------------------------------------------------------------------------------------------------------|
| Nominal Voltage             | 12 V                                                                                                 |
| Nominal Capacity            | 40Ah @ 20 hour rate F.V.(1.75V/cell)                                                                 |
| Approx. Weight              | 14300g(31.53lbs.)                                                                                    |
| Terminals                   | B2 (Fitting M5 bolt & nut) , I1 and I2 are optional                                                  |
| Internal Resistance         | $\leq 8m\Omega$ (Fully Charged )                                                                     |
| Max. Discharge Current      | 600 A (5 sec.)                                                                                       |
| Max. Charge Current         | 12 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) BP40-12<br>Optional: Flame Retardant ABS(UL94 V-0) BP40-12FR                 |



- IEC 61056-1
- JIS C 8702-1
- GB/T 19639.1
- VdS G102110

| DIMENSION(mm/inch)                             | OUTER DIMENSIONS | TERMINAL TYPE |
|------------------------------------------------|------------------|---------------|
| <b>Length</b><br>197±1.5 (7.76±0.06)           |                  |               |
| <b>Width</b><br>165±1.5 (6.50±0.06)            |                  |               |
| <b>Container Height</b><br>171±1.5 (6.73±0.06) |                  |               |
| <b>Total Height</b><br>171±1.5 (6.73±0.06)     |                  |               |

| Constant power discharge characteristics at 25 °C/77 °F |                |       |        |        |        | Unit: W |       |      |       |       |
|---------------------------------------------------------|----------------|-------|--------|--------|--------|---------|-------|------|-------|-------|
| F.V.                                                    | Discharge Time | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr    | 3 Hr  | 5 Hr | 10 Hr | 20 Hr |
| 10.8V                                                   |                | 1280  | 1007   | 811    | 508    | 291.1   | 116.6 | 80.4 | 44.93 | 23.64 |
| 10.5V                                                   |                | 1482  | 1091   | 848    | 527    | 299.9   | 118.9 | 81.6 | 45.60 | 24.00 |
| 10.2V                                                   |                | 1575  | 1130   | 874    | 539    | 305.2   | 120.0 | 82.0 | 45.83 | 24.12 |
| 9.9V                                                    |                | 1645  | 1157   | 894    | 547    | 308.9   | 120.8 | 82.3 | 45.96 | 24.19 |
| 9.6V                                                    |                | 1700  | 1180   | 912    | 552    | 312.0   | 121.6 | 82.6 | 45.96 | 24.19 |

| Constant current discharge characteristics at 25 °C/77 °F |                |       |        |        |        | Unit: A |       |      |       |       |
|-----------------------------------------------------------|----------------|-------|--------|--------|--------|---------|-------|------|-------|-------|
| F.V.                                                      | Discharge Time | 5 Min | 10 Min | 15 Min | 30 Min | 1 Hr    | 3 Hr  | 5 Hr | 10 Hr | 20 Hr |
| 10.8V                                                     |                | 115   | 88.6   | 70.5   | 43.0   | 24.46   | 9.72  | 6.70 | 3.74  | 1.97  |
| 10.5V                                                     |                | 136   | 96.0   | 73.7   | 44.7   | 25.20   | 9.91  | 6.80 | 3.80  | 2.00  |
| 10.2V                                                     |                | 144   | 99.5   | 76.0   | 45.7   | 25.65   | 10.00 | 6.84 | 3.82  | 2.01  |
| 9.9V                                                      |                | 151   | 101.8  | 77.7   | 46.3   | 25.96   | 10.07 | 6.86 | 3.83  | 2.02  |
| 9.6V                                                      |                | 156   | 103.9  | 79.3   | 46.8   | 26.22   | 10.13 | 6.88 | 3.83  | 2.02  |

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.

B/4 REV. Aug. 2025

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