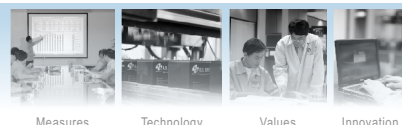




## VRLA Rechargeable Battery

# FTB100-12 (central gassing)



### FEATURES

- Absorbent Glass Mat technology for efficient gas recombination
- Front accessible terminal for ease of assembly
- Carry handles for ease of installation
- Strengthened rib design to maintain structural integrity
- Flame-arrestor is installed to ensure safety
- One-way self-resealing safety valve for long life guarantee
- Battery design allows for 48VDC configuration in a standard 19" rack

### APPLICATIONS

- Telecom
- UPS
- Broadband
- Electric Utility
- Railroad Signal
- Central Office



### SPECIFICATIONS

|                             |                                                                                                    |
|-----------------------------|----------------------------------------------------------------------------------------------------|
| Nominal Voltage             | 12 V                                                                                               |
| Nominal Capacity            | 100Ah @ 8 hour rate F.V.(1.75V/cell)                                                               |
| Approx. Weight              | 36.8Kg(81.13lbs.)                                                                                  |
| Terminals                   | I2 (M6 Female Thread)                                                                              |
| Internal Resistance         | $\leq 3.5m\ \Omega$ (Fully Charged )                                                               |
| Max. Discharge Current      | 800 A (5 sec.)                                                                                     |
| Max. Charge Current         | 25 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) |
| Safety Valve                | Opening pressure 10~35 kPa                                                                         |
| Container Material          | Standard: ABS( UL94 HB) FTB100-12<br>Optional: Flame Retardant ABS(UL94 V-0) FTB100-12FR           |

**UL**  
MH19884



C4M20310-2474-E-16

- IEC60896
- BS 6290/4
- GB/T 19638.1
- Eurobat guide

### DIMENSION(mm/inch)

### OUTER DIMENSIONS

### TERMINAL TYPE

#### Length

394±2.0 (15.51±0.08)

#### Width

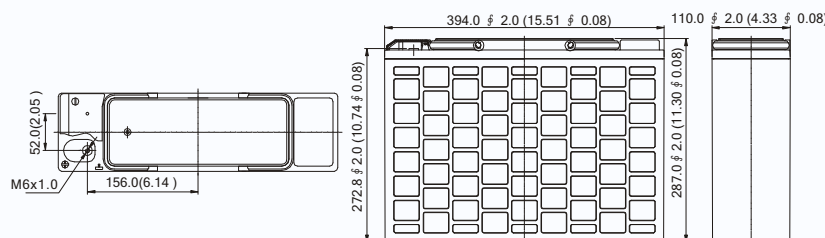
110±2.0 (4.33±0.08)

#### Container Height

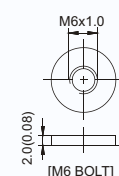
287±2.0 (11.30±0.08)

#### Total Height

287±2.0 (11.30±0.08)



#### Terminal I2



Terminal Hardware Initial Torque:  
5.5Nm ±5%

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

Unit: W

| Discharge Time<br>F.V.<br>(V/cell) | 15 Min | 30 Min | 45 Min | 1 Hr  | 2 Hr  | 3 Hr  | 4 Hr  | 5 Hr  | 8 Hr   | 10 Hr  | 20 Hr |
|------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|--------|--------|-------|
| 1.90V                              | 1355   | 1114   | 814    | 647.4 | 394.3 | 293.3 | 232.4 | 194.2 | 132.00 | 107.67 | 57.16 |
| 1.85V                              | 1598   | 1226   | 889    | 719.9 | 434.1 | 320.5 | 254.2 | 211.6 | 142.82 | 117.05 | 62.18 |
| 1.80V                              | 1806   | 1302   | 939    | 760.5 | 451.4 | 332.4 | 262.9 | 218.2 | 147.55 | 121.20 | 64.36 |
| 1.75V                              | 1983   | 1351   | 971    | 778.6 | 459.9 | 336.7 | 267.3 | 222.5 | 150.00 | 122.40 | 65.45 |
| 1.70V                              | 2123   | 1381   | 990    | 791.5 | 464.3 | 340.0 | 269.5 | 223.6 | 150.00 | 122.40 | 65.45 |
| 1.65V                              | 2216   | 1401   | 1003   | 802.2 | 468.5 | 343.3 | 271.6 | 224.7 | 150.00 | 122.40 | 65.45 |
| 1.60V                              | 2238   | 1415   | 1012   | 807.0 | 470.4 | 344.3 | 272.2 | 225.1 | 151.81 | 123.38 | 65.72 |

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

Unit: A

| Discharge Time<br>F.V.<br>(V/cell) | 15 Min | 30 Min | 45 Min | 1 Hr  | 2 Hr  | 3 Hr  | 4 Hr  | 5 Hr  | 8 Hr  | 10 Hr | 20 Hr |
|------------------------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1.90V                              | 114.4  | 92.9   | 67.8   | 55.09 | 33.27 | 24.55 | 19.36 | 16.18 | 11.00 | 8.97  | 4.76  |
| 1.85V                              | 135.2  | 103.2  | 74.6   | 61.27 | 36.64 | 26.82 | 21.18 | 17.64 | 11.90 | 9.75  | 5.18  |
| 1.80V                              | 155.0  | 110.4  | 79.2   | 64.73 | 38.09 | 27.82 | 21.91 | 18.18 | 12.30 | 10.10 | 5.36  |
| 1.75V                              | 173.3  | 114.5  | 81.9   | 66.27 | 38.82 | 28.18 | 22.27 | 18.55 | 12.50 | 10.20 | 5.45  |
| 1.70V                              | 187.4  | 117.1  | 83.5   | 67.36 | 39.18 | 28.45 | 22.45 | 18.64 | 12.50 | 10.20 | 5.45  |
| 1.65V                              | 196.0  | 118.8  | 84.6   | 68.27 | 39.55 | 28.73 | 22.64 | 18.73 | 12.50 | 10.20 | 5.45  |
| 1.60V                              | 198.3  | 119.9  | 85.3   | 68.68 | 39.70 | 28.81 | 22.68 | 18.76 | 12.65 | 10.28 | 5.48  |

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. May. 2025

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