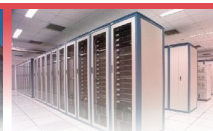
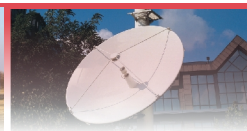




VRLA Rechargeable Battery

# FTX100-12

Pure Lead Battery for High Temperature



## FEATURES

- Excellent high temperature performance
- Special sealing compound to prevent any leaks
- High compression and puncture resistance separator
- Reinforced case resists high temperature condition
- Special alloy inhibits corrosion under the highest temperature extremes
- Electrolyte additive to prevent internal short circuit at high temperature
- Advanced manufacturing techniques to ensure quality products
- Broad operating temperature from -40°C to 65°C (-40°F ~ 149°F)
- Anti-muddy agent to provide the longest life 10 years at 35°C

## APPLICATIONS

- Storage energy system
- Power station and UPS system
- Solar
- Telecom
- IDC(Internet Data Center)



## SPECIFICATIONS

|                             |                             |               |
|-----------------------------|-----------------------------|---------------|
| Nominal Voltage             | 12V                         |               |
| Nominal Capacity            | 10 Hour Rate (10.0A, 10.5V) | 100 Ah @ 35°C |
|                             | 10 Hour Rate (9.2A, 10.5V)  | 92 Ah @ 25°C  |
| Approx. Weight              | 35.4kg(78.04lbs.)           |               |
| Terminals                   | I2 (M6 Female Thread)       |               |
| Max. Discharge Current      | 800 A (5 sec.)              |               |
| Max. Charge Current         | 30 A                        |               |
| Operating Temperature Range | -40°C~65°C(-40°F~149°F)     |               |
| Self Discharge              | < 5% per month (35°C)       |               |
| Internal Resistance         | ≤ 4.2mΩ (Fully Charged )    |               |

## CONTAINER MATERIAL

- Standard: ABS(UL94 HB)
- Model Name: FTX100-12

Certificate as below:



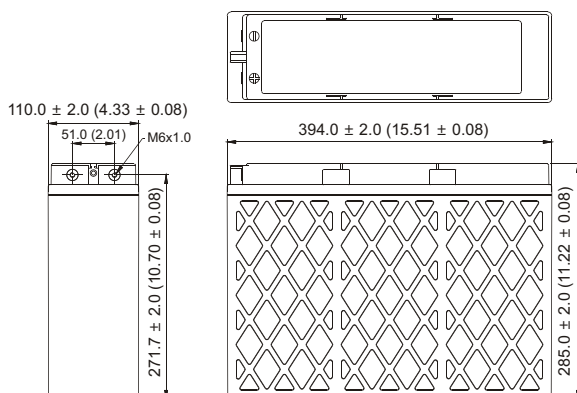
MH19884

Compliance of the standards as below:

- IEC60896-21/22
- GB/T 19638.1

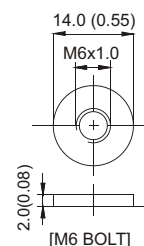
## OUTER DIMENSIONS mm(inch)

| Length (L)          | Width (W)          | Container Height (H) | Total Height (TH)   |
|---------------------|--------------------|----------------------|---------------------|
| 394±2.0(15.51±0.08) | 110±2.0(4.33±0.08) | 285±2.0(11.22±0.08)  | 285±2.0(11.22±0.08) |



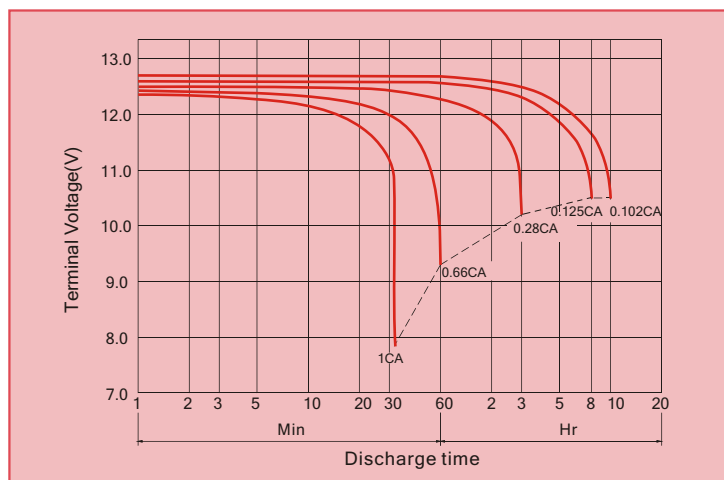
## TERMINAL TYPE

Terminal I2

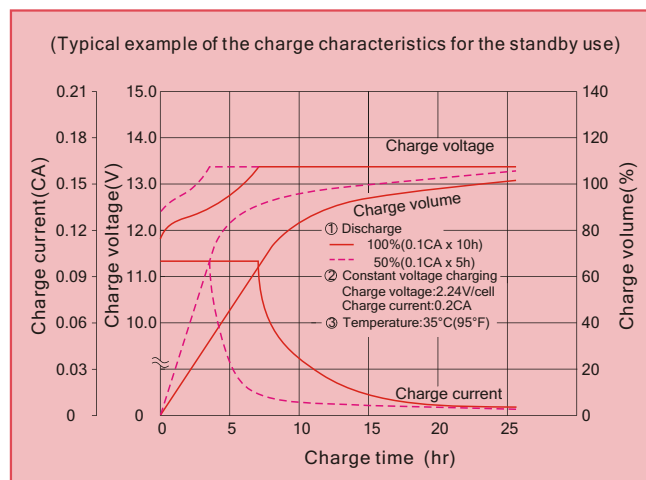


Terminal Hardware Initial Torque: 5.5 Nm ± 5%

## FTX100-12 discharge characteristics (35°C/95°F)



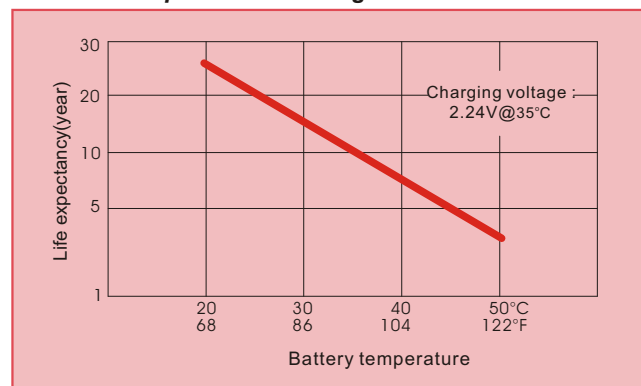
## Battery Charging Characteristics



## Charging Procedure

| Application              | Charging method                              | Charging Voltage at 35°C (V/cell) | Temperature compensation coefficient of charging voltage (mV/°C/cell) | Max. charging current (CA) | Charging time 0.2CA, 35°C (h) |               |
|--------------------------|----------------------------------------------|-----------------------------------|-----------------------------------------------------------------------|----------------------------|-------------------------------|---------------|
|                          |                                              |                                   |                                                                       |                            | 100% discharge                | 50% discharge |
| For standby power Source | Constant voltage & Constant current charging | 2.23~2.25                         | -3                                                                    | 0.3                        | 24                            | 20            |
| For cycle service        | (with current restriction)                   | 2.35~2.40                         | -4                                                                    | 0.3                        | 20                            | 16            |

## Effect Of Temperature On Long Term Float Life



## Constant power discharge characteristics at 35 °C/95 °F Unit: W

| F.V. (V/cell) \ Discharge Time | 15 Min | 30 Min | 45 Min | 1 Hr | 2 Hr  | 3 Hr  | 4 Hr  | 5 Hr  | 8 Hr  | 10 Hr | 20 Hr |
|--------------------------------|--------|--------|--------|------|-------|-------|-------|-------|-------|-------|-------|
| 1.90V                          | 1629   | 1006   | 793    | 647  | 388.2 | 270.7 | 214.6 | 198.2 | 128.4 | 106.6 | 56.0  |
| 1.85V                          | 1792   | 1106   | 866    | 720  | 427.4 | 295.8 | 234.6 | 215.6 | 139.7 | 116.0 | 60.9  |
| 1.80V                          | 1903   | 1175   | 915    | 761  | 444.5 | 306.8 | 242.6 | 223.2 | 144.6 | 120.0 | 63.0  |
| 1.75V                          | 1976   | 1220   | 946    | 779  | 452.8 | 310.8 | 246.7 | 225.3 | 146.0 | 121.2 | 63.6  |
| 1.70V                          | 2019   | 1246   | 964    | 792  | 457.2 | 313.8 | 248.8 | 225.3 | 146.0 | 121.2 | 63.6  |
| 1.65V                          | 2049   | 1265   | 978    | 802  | 461.3 | 316.9 | 250.7 | 225.3 | 146.0 | 121.2 | 63.6  |
| 1.60V                          | 2069   | 1277   | 986    | 807  | 463.1 | 317.8 | 251.3 | 225.6 | 146.2 | 121.3 | 63.7  |

## Constant current discharge characteristics at 35 °C/95 °F Unit: A

| F.V. (V/cell) \ Discharge Time | 15 Min | 30 Min | 45 Min | 1 Hr | 2 Hr  | 3 Hr  | 4 Hr  | 5 Hr  | 8 Hr  | 10 Hr | 20 Hr |
|--------------------------------|--------|--------|--------|------|-------|-------|-------|-------|-------|-------|-------|
| 1.90V                          | 137.5  | 83.9   | 66.0   | 54.6 | 32.58 | 22.66 | 17.87 | 16.52 | 10.70 | 8.88  | 4.66  |
| 1.85V                          | 152.7  | 93.1   | 72.7   | 60.7 | 35.89 | 24.76 | 19.55 | 17.95 | 11.63 | 9.66  | 5.07  |
| 1.80V                          | 163.4  | 99.6   | 77.1   | 64.1 | 37.30 | 25.68 | 20.22 | 18.60 | 12.05 | 10.00 | 5.25  |
| 1.75V                          | 169.4  | 103.3  | 79.8   | 65.7 | 38.02 | 26.01 | 20.56 | 18.78 | 12.17 | 10.10 | 5.30  |
| 1.70V                          | 173.3  | 105.7  | 81.3   | 66.7 | 38.37 | 26.26 | 20.72 | 18.78 | 12.17 | 10.10 | 5.30  |
| 1.65V                          | 175.8  | 107.2  | 82.5   | 67.6 | 38.73 | 26.52 | 20.90 | 18.78 | 12.17 | 10.10 | 5.30  |
| 1.60V                          | 177.5  | 108.2  | 83.1   | 67.7 | 38.89 | 26.60 | 20.93 | 18.80 | 12.18 | 10.11 | 5.31  |

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.

Trial A/4 REV. Jul. 2026

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