

FT Series

FTB12-100 12V100Ah



Sacred Sun front terminal batteries have been designed specifically for applications which demand the highest levels of security and reliability. The monoblocs have excellent high rate performance, compact design and standard footprint for 19" and 23" cabinets. Thick Pb-Ca-Sn alloy grids are designed to resist corrosion and prolong service life.

Benefits

- Long life according to EUROBAT Classification
- High discharge performance
- High gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling
- Centralized venting system

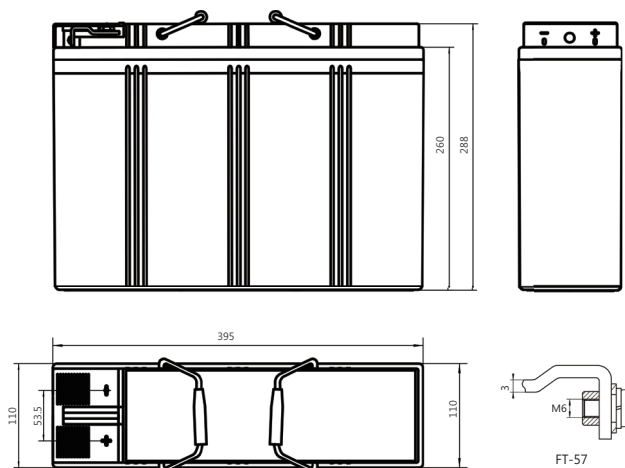
Applications

- Telecommunications
- Power system
- UPS
- Emergency power
- Data center

Standards

- IEC 60896-21/22
- BS 6290-4
- EUROBAT guide
- Installation compliant with EN50272-2

Drawing



Specifications

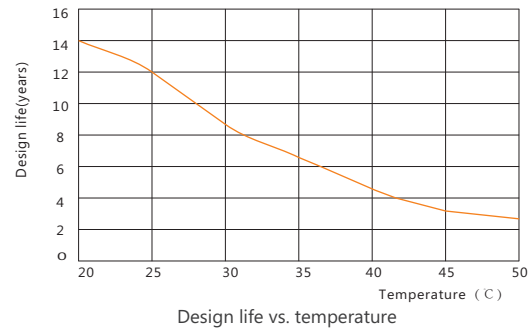
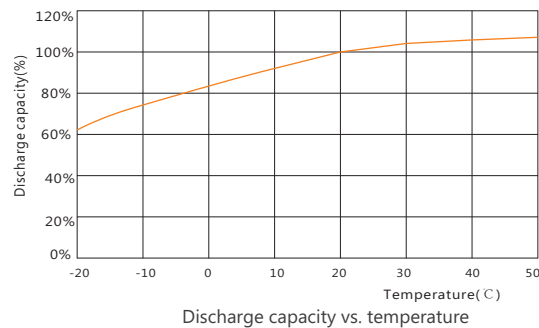
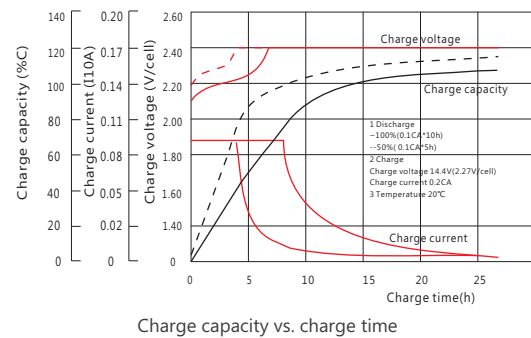
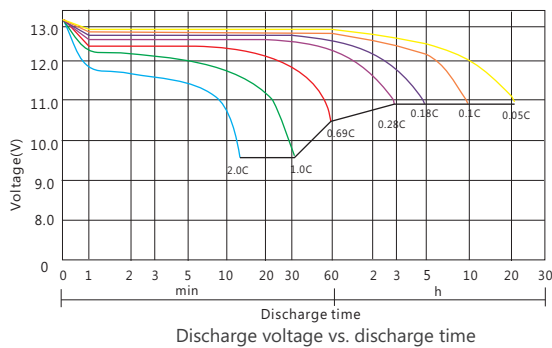
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|--------------------------------------|--|---------------------|-----------------------|--------------------|
| Battery Model | FTB12-100 | | | |
| Design Life (years, 25°C) | 12 | | | |
| Capacity (Ah, 25°C) | 10HR (10.0A, 1.80V) | 5HR (17.86A, 1.80V) | 3HR (26.27A, 1.80V) | 1HR (55.6A, 1.75V) |
| | 100 | 89.29 | 78.81 | 55.6 |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 395 | 110 | 288 | 288 |
| Approx. Weight (kg) | 32.0 | | | |
| Reference Internal Resistance (mΩ) | 4.5 (fully charged @ 25°C) | | | |
| Maximum Discharge Current (A/3 Sec.) | 895 | | | |
| Self-Discharge (25°C) | ≤ 1.5% per month | | | |
| Charge Voltage (V/cell, 25°C) | Cycle use | | Float use | |
| | 2.35 (-3.5mV/°C/cell), max charge current: 20A | | 2.25 (-3.5mV/°C/cell) | |
| Short Circuit Current (A) | 2720 | | | |

Discharge Data

| Constant Current Discharge Data (25°C, A) | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|------|------|------|-------|------|-------|-------|-------|-------|------|
| End Voltage (V/cell) | min | | | | | h | | | | | | | | |
| | 5 | 10 | 15 | 30 | 45 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 20 |
| 1.60 | 274.9 | 219.9 | 181.7 | 124.5 | 86.8 | 66.1 | 39.5 | 28.41 | 23.2 | 18.73 | 15.95 | 12.38 | 10.40 | 5.58 |
| 1.65 | 256.9 | 201.4 | 172.2 | 116.7 | 79.8 | 62.6 | 38.6 | 27.62 | 22.8 | 18.49 | 15.95 | 12.30 | 10.24 | 5.53 |
| 1.70 | 236.1 | 181.2 | 158.8 | 108.9 | 74.0 | 57.0 | 37.6 | 27.06 | 22.4 | 18.33 | 15.71 | 12.22 | 10.14 | 5.50 |
| 1.75 | 217.6 | 166.1 | 149.3 | 104.4 | 72.1 | 55.6 | 37.0 | 26.75 | 22.0 | 18.10 | 15.56 | 12.06 | 10.08 | 5.46 |
| 1.80 | 194.1 | 154.3 | 137.4 | 95.9 | 64.8 | 51.5 | 36.0 | 26.27 | 21.8 | 17.86 | 15.40 | 11.90 | 10.00 | 5.39 |

| Constant Power Discharge Data (25°C, W/cell) | | | | | | | | | | | | | | |
|--|-------|-------|-------|-------|-------|-------|------|-------|-------|-------|-------|-------|-------|-------|
| End Voltage (V/cell) | min | | | | | h | | | | | | | | |
| | 5 | 10 | 15 | 30 | 45 | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 10 | 20 |
| 1.60 | 466.7 | 410.0 | 345.0 | 215.0 | 156.0 | 132 | 75.5 | 55.50 | 42.30 | 35.00 | 30.20 | 22.70 | 20.00 | 10.34 |
| 1.65 | 446.8 | 390.0 | 325.0 | 205.0 | 151.0 | 130 | 74.9 | 54.80 | 42.00 | 34.90 | 30.00 | 22.65 | 19.60 | 10.30 |
| 1.70 | 424.6 | 376.0 | 308.0 | 198.0 | 147.0 | 128 | 73.9 | 54.00 | 41.80 | 34.70 | 29.70 | 22.58 | 19.00 | 10.24 |
| 1.75 | 400.0 | 352.0 | 293.0 | 189.0 | 142.0 | 124 | 73.5 | 53.50 | 41.50 | 34.40 | 29.50 | 22.50 | 18.60 | 10.19 |
| 1.80 | 372.2 | 331.0 | 276.0 | 181.0 | 137.0 | 120.0 | 72.6 | 53.10 | 41.20 | 34.10 | 29.30 | 22.40 | 18.00 | 10.12 |

Performance Curve



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