

UPS-FTA Series

UPS12-615FTA 12V170Ah

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 power discharge, compact design and standard footprint for 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

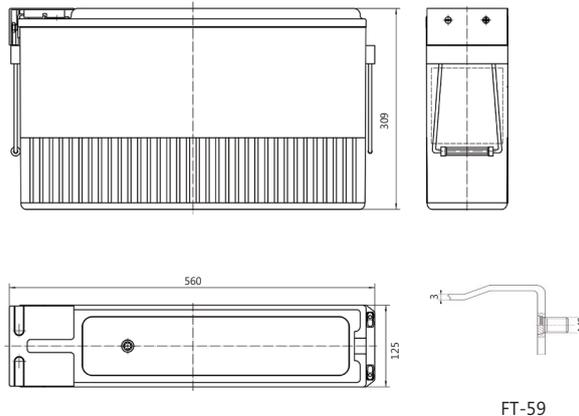
Applications

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

Standards

- IEC 60896-21/22
- BS 6290-4
- EUROBAT guide

Drawing



Specifications

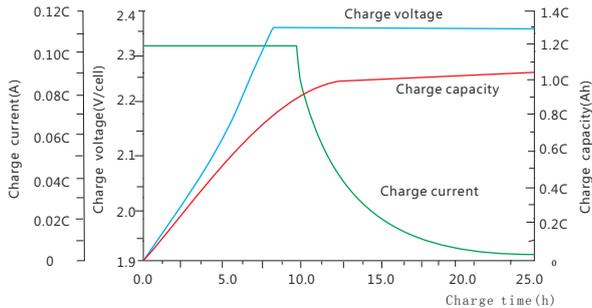
| | | | | |
|--------------------------------------|--|---------------|-----------------------|--------------------|
| Battery Model | UPS12-615FTA | | | |
| Design Life (years, 25°C) | 12 | | | |
| Capacity (25°C) | 10min (1.60V) | 15min (1.67V) | 1HR (113.4A, 1.75V) | 10HR(17.0A, 1.80V) |
| | 795W | 615W | 113.4Ah | 170Ah |
| Dimensions (mm) | Length | Width | Height | Total Height |
| | 560 | 125 | 309 | 309 |
| Approx. Weight (kg) | 54.2 | | | |
| Reference Internal Resistance (mΩ) | 2.7±15% (fully charged @ 25°C,testing device:HIOKIBT3562) | | | |
| Maximum Discharge Current (A/3 Sec.) | 1410 | | | |
| Self-Discharge (25°C) | ≤2% per month | | | |
| Charge Voltage (V/cell, 25°C) | Cycle use | | Float use | |
| | 14.1(-3.5mV/°C/cell), max charge current: 34A | | 13.5 (-3.5mV/°C/cell) | |
| Short Circuit Current (A) | 3650 | | | |

Discharge Data

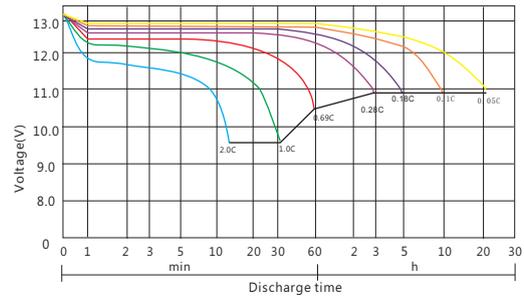
| Constant Power Discharge Data (25°C, W/cell) | | | | | | | | | | | | | | |
|--|--------|-------|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| End Voltage (V/cell) | min | | | | | | h | | | | | | | |
| | 5 | 10 | 15 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 10 |
| 1.60 | 1048.0 | 795.0 | 641.5 | 531.5 | 418.0 | 299.5 | 231.2 | 174.0 | 143.0 | 96.7 | 73.3 | 64.4 | 55.2 | 36.5 |
| 1.65 | 1035.5 | 778.2 | 620.0 | 516.9 | 393.7 | 293.5 | 224.2 | 172.0 | 137.3 | 92.1 | 72.1 | 63.2 | 54.5 | 35.8 |
| 1.67 | 1027.3 | 771.8 | 615.0 | 513.9 | 392.5 | 292.9 | 223.5 | 171.5 | 135.2 | 90.9 | 70.2 | 62.0 | 53.6 | 35.4 |
| 1.70 | 1002.2 | 759.3 | 605.1 | 508.1 | 391.0 | 291.5 | 222.3 | 170.8 | 132.7 | 89.2 | 69.4 | 61.1 | 52.9 | 35.0 |
| 1.75 | 947.9 | 731.8 | 583.5 | 494.3 | 386.0 | 288.1 | 214.3 | 169.0 | 130.4 | 87.5 | 68.5 | 60.3 | 52.2 | 34.7 |
| 1.80 | 897.0 | 698.5 | 544.5 | 447.5 | 344.0 | 275.5 | 206.7 | 167.2 | 128.3 | 86.3 | 67.1 | 59.8 | 51.9 | 34.0 |

| Constant Current Discharge Data (25°C, A) | | | | | | | | | | | | | | |
|---|-------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| End Voltage (V/cell) | min | | | | | | h | | | | | | | |
| | 5 | 10 | 15 | 20 | 30 | 45 | 1 | 1.5 | 2 | 3 | 4 | 5 | 6 | 10 |
| 1.60 | 508.0 | 388.2 | 310.3 | 258.3 | 202.5 | 145.9 | 112.3 | 85.5 | 69.2 | 47.1 | 36.5 | 31.2 | 27.2 | 17.8 |
| 1.65 | 501.5 | 378.1 | 302.2 | 255.6 | 194.0 | 143.7 | 109.5 | 83.5 | 66.5 | 45.6 | 35.7 | 30.9 | 26.9 | 17.6 |
| 1.67 | 496.5 | 373.3 | 298.2 | 253.5 | 191.6 | 142.3 | 108.0 | 82.9 | 64.9 | 44.7 | 34.9 | 30.7 | 26.6 | 17.5 |
| 1.70 | 489.1 | 367.5 | 293.0 | 249.6 | 189.4 | 141.2 | 107.3 | 82.4 | 63.4 | 43.6 | 34.5 | 30.5 | 26.3 | 17.3 |
| 1.75 | 470.4 | 356.6 | 282.5 | 241.1 | 186.6 | 139.6 | 106.6 | 81.8 | 62.7 | 43.0 | 34.0 | 30.3 | 26.0 | 17.2 |
| 1.80 | 450.5 | 340.6 | 265.6 | 218.2 | 167.5 | 133.1 | 100.6 | 80.8 | 61.4 | 42.5 | 33.4 | 30.1 | 25.8 | 17.0 |

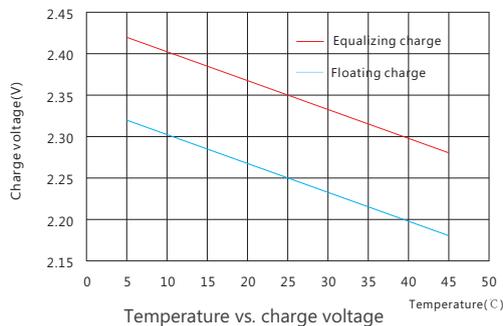
Performance Curve



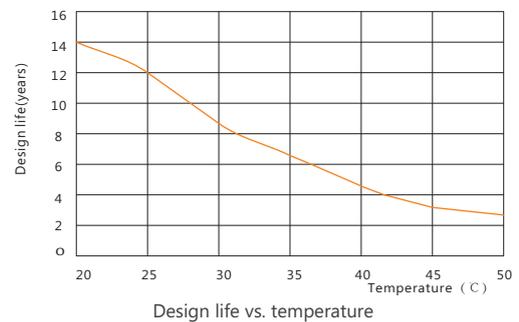
Charge performance



Discharge voltage vs. discharge time



Temperature vs. charge voltage



Design life vs. temperature

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