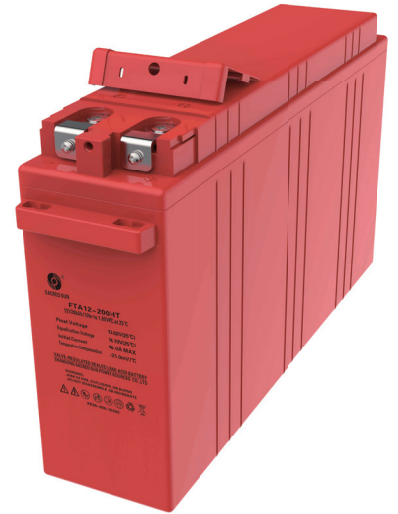


# HTB Series

## FTA12-200HT 12V200Ah

Sacred Sun HTB VRLA battery uses latest AGM technology designed for high temperature resistant performance with good cycle life and fast charging acceptance ability. Its average temperature can be 35-40°C. HTB's reduced needs for cooling saves energy and reduces cost. It is suitable for high temperature environments both in floating and cyclic applications. Sacred Sun has two ranges: 12V front terminal and 2V top terminal.



### Benefits

- Long life according to EUROBAT Classification
- Specifically designed for semi-stable mains
- High discharge performance
- 99%+ gas recombination efficiency
- Maximum charge efficiency
- Low self-discharge rate
- Easy installation and handling
- Centralized venting system

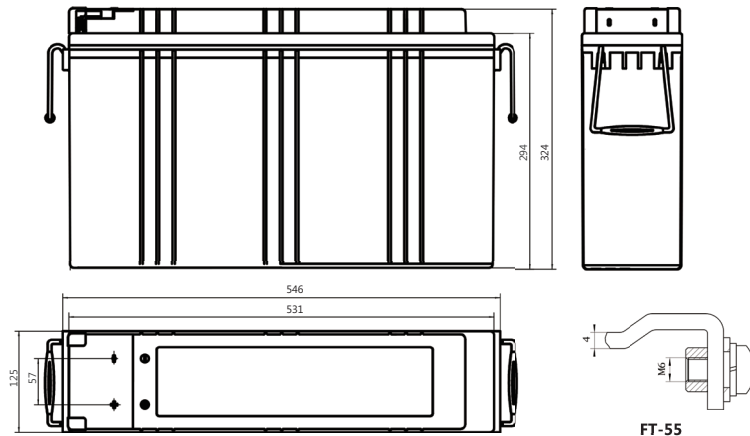
### Applications

- High temperature BTS
- Unstable grid BTS
- Remote area BTS
- Solar (Wind) energy storage system

### Standards

- JIS C8704-1
- JIS C8704-2
- IEC 60896-21/22
- IEC 61427
- EUROBAT guide
- Installation compliant with EN50272-2

### Drawing



### Specifications

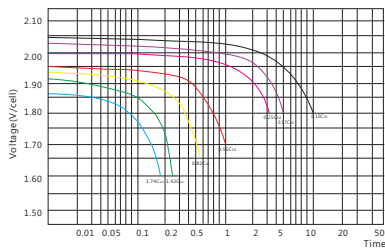
|                                      |  |                    |                       |                     |
|--------------------------------------|--|--------------------|-----------------------|---------------------|
| Battery Model                        | FTA12-200HT                                    |                    |                       |                     |
| Design Life ( Years, 35°C)           | 10   |                    |                       |                     |
| Capacity (Ah, 25°C)                  | 10HR (20A, 1.80V)                              | 5HR (35.6A, 1.80V) | 3HR (50.7A, 1.80V)    | 1HR (111.7A, 1.75V) |
|                                      | 200  | 178                | 152.1                 | 111.7               |
| Dimensions (mm)                      | Length   | Width              | Height                | Total Height        |
|                                      | 546  | 125                | 324                   | 324                 |
| Approx. Weight (kg)                  | 59.5   |                    |                       |                     |
| Reference Internal Resistance (mΩ)   | 4.0 (fully charged @ 25°C)                     |                    |                       |                     |
| Maximum Discharge Current (A/5 Sec.) | 1600   |                    |                       |                     |
| 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: 40A |                    | 2.25 (-3.5mV/°C/cell) |                     |
| Short Circuit Current (A)            | 3900   |                    |                       |                     |

## Discharge Data

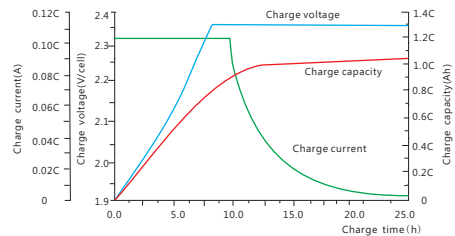
| Constant Current Discharge Data (25°C, A) |       |       |       |       |       |       |      |      |      |      |      |      |      |      |
|---|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|------|
| End Voltage (V/cell)                      | min   |       |       |       |       | h     |      |      |      |      |      |      |      |      |
|   | 5     | 10    | 15    | 30    | 45    | 1     | 2    | 3    | 4    | 5    | 6    | 8    | 10   | 20   |
| 1.60                                      | 552.5 | 442.0 | 365.3 | 250.3 | 174.5 | 132.9 | 79.4 | 54.8 | 44.8 | 37.2 | 31.7 | 24.6 | 20.6 | 11.2 |
| 1.65                                      | 516.3 | 404.8 | 346.2 | 234.5 | 160.4 | 125.8 | 77.6 | 53.2 | 44.1 | 36.7 | 31.7 | 24.5 | 20.4 | 11.1 |
| 1.70                                      | 474.6 | 364.2 | 319.2 | 218.8 | 148.7 | 114.6 | 75.6 | 52.3 | 43.3 | 36.4 | 31.3 | 24.2 | 20.3 | 10.8 |
| 1.75                                      | 437.5 | 333.8 | 300.0 | 209.8 | 145.0 | 111.7 | 74.4 | 51.7 | 42.6 | 36.0 | 30.9 | 24.0 | 20.1 | 10.8 |
| 1.80                                      | 390.2 | 310.1 | 276.2 | 192.8 | 130.2 | 103.5 | 72.3 | 50.7 | 42.2 | 35.6 | 30.6 | 23.7 | 20.0 | 10.7 |

| 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   | 929.1 | 747.6 | 600.0 | 476.3 | 352.8 | 250.3 | 157.9 | 115.8 | 88.2 | 71.1 | 60.9 | 47.3 | 40.7 | 21.5 |
| 1.65   | 888.4 | 703.6 | 578.9 | 460.3 | 326.9 | 243.6 | 155.6 | 112.6 | 87.1 | 70.7 | 60.7 | 47.1 | 40.5 | 21.4 |
| 1.70   | 844.4 | 655.1 | 547.4 | 440.0 | 297.9 | 232.3 | 152.2 | 109.5 | 85.9 | 70.4 | 60.4 | 46.7 | 40.4 | 21.2 |
| 1.75   | 796.1 | 614.4 | 508.4 | 417.9 | 291.4 | 227.8 | 151.2 | 108.4 | 84.9 | 69.9 | 60.0 | 46.5 | 40.2 | 20.9 |
| 1.80   | 740.7 | 591.9 | 497.9 | 395.8 | 262.2 | 209.4 | 147.7 | 105.3 | 84.5 | 69.2 | 59.6 | 46.2 | 39.4 | 20.8 |

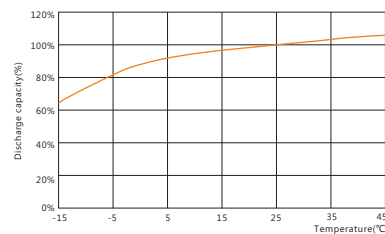
## Performance Curve



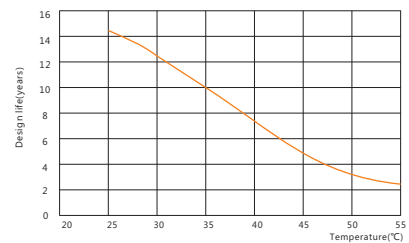
Discharge Performance



Charge Performance



Temperature vs. capacity



Design life vs. temperature

### Sacred Sun Power Sources Co., Ltd.

No.1 Shengyang Road Qufu City, PRC  
sales@sacredsun.cn

### Sacred Sun Asia Pacific

No. 15, Yishun Industrial Street 1,  
#01-17, WIN5, Singapore 768091  
sales.asia@sacredsun.cn

### Sacred Sun Europe SPRL

Schoenstraat 96-9140 Temse, Belgium  
sales.eu@sacredsun.cn

### Sacred Sun MEA FZE

S10122A1019 Jebel Ali, Dubai,  
United Arab Emirates  
sales.mea@sacredsun.cn

