

Front Terminal AGM Telecom Battery

FB12-150

CSBattery FB12 Series is specially designed for telecom use with 8-10 years design life in float service. By adopting a new AGM separator and centralized venting system, the battery can be installed in any position while maintaining high reliability. The dimensions of the FT series are designed for 19" and 23" cabinet installation. It is suitable for telecom EPS, applications.

12V
150Ah

GEL
Technology

Telecom
Battery



COMPLIED STANDARDS

IEC 60896-21/22 JIS C8704
YD/T799 BS6290 part4
GB/T 19638 CE

Applications

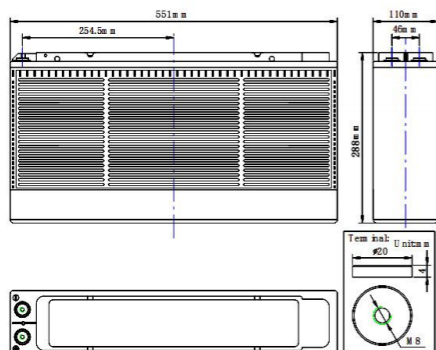
- Telecom Control Equipment
- UPS systems, Inverter
- Power Equipment
- Solar & Wind
- Emergency Power Systems

General Features

- ✓ Advanced AGM technology, and Maintenance-free operation;
- ✓ Front access terminal with standard width for 19" and 23" ETSI racks;
- ✓ Fire resistance ABS container;
- ✓ Long float service life 10years;
- ✓ Low self discharge <3%.

Dimensions & Weight

| | |
|------------------|---------|
| Length(mm) | 551±1 |
| Width(mm) | 110±1 |
| Height(mm) | 288±1 |
| Total Height(mm) | 288±1 |
| Weight(kg) | 44.0±3% |



Technical Specifications

| | | |
|--|---------------------------|--|
| Nominal Voltage | | 12V(6 cells per unit) |
| Design Floating Life @25°C | | 10 Years |
| Nominal Capacity @25°C(10 hour rate@15.0A,10.8V) | | 150Ah |
| Capacity @25°C | 20hour rate (7.95A,10.8V) | 159Ah |
| | 5 hour rate (26.4A,10.5V) | 132Ah |
| | 1 hour rate (95.7A,9.6V) | 95.7Ah |
| Internal Resistance | Full Charged Battery@25°C | ≤3.8mΩ |
| Ambient Temperature | Discharge | -15°C~45°C |
| | Charge | -15°C~45°C |
| | Storage | -15°C~45°C |
| Max.Discharge Current@25°C | | 900A(5s) |
| Capacity affected by Temperature (10 hour) | 40°C | 105% |
| | 25°C | 100% |
| | 0°C | 85% |
| | -15°C | 65% |
| Self-Discharge@25°C per Month | | 3% |
| Charge (Constant Voltage) @25°C | Standby Use | Initial Charging Current Less than 37.5A Voltage 13.6-13.8V |
| | Cycle Use | Initial Charging Current Less than 37.5A Voltage 14.4-14.9V |

Battery Discharge Table

Discharge Constant Current per Cell (Amperes at 25°C)

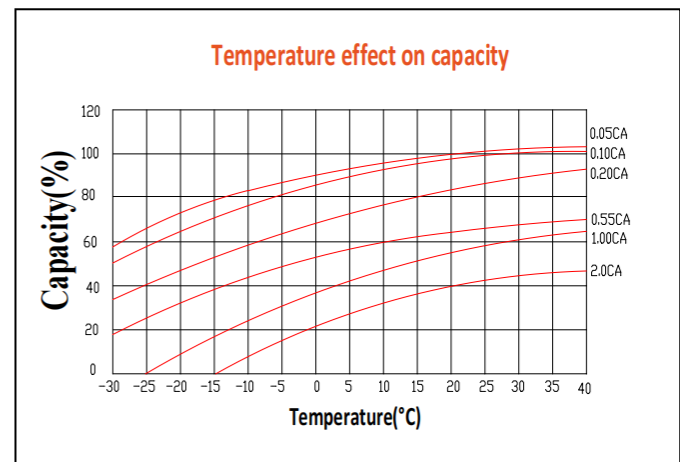
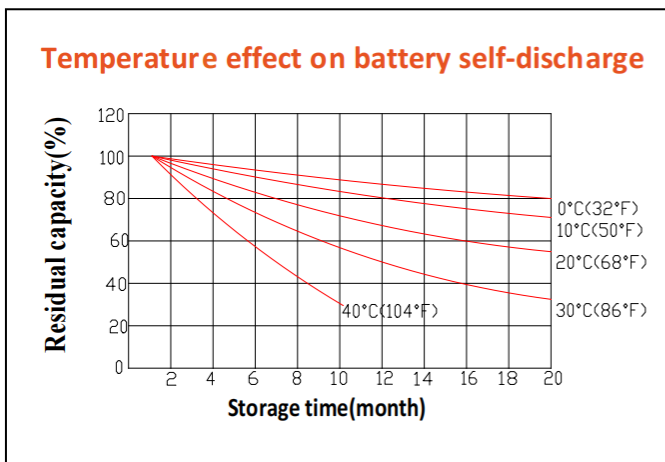
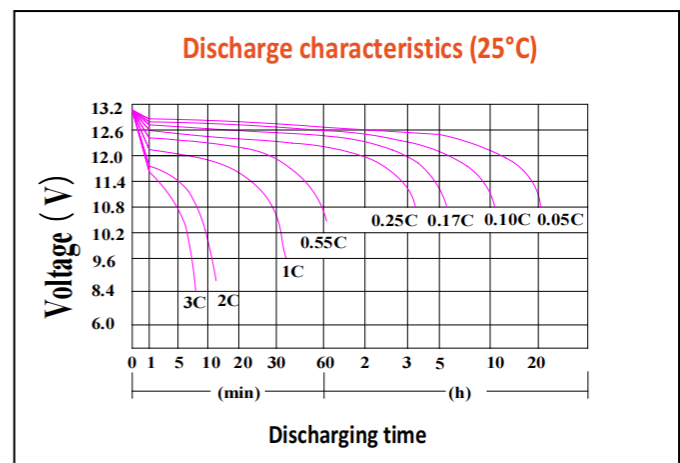
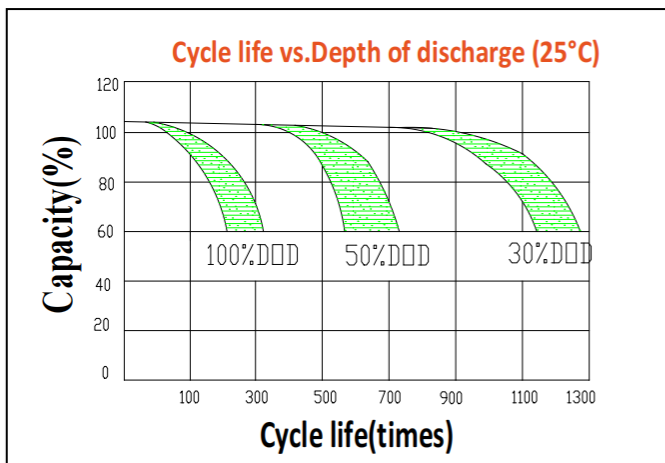
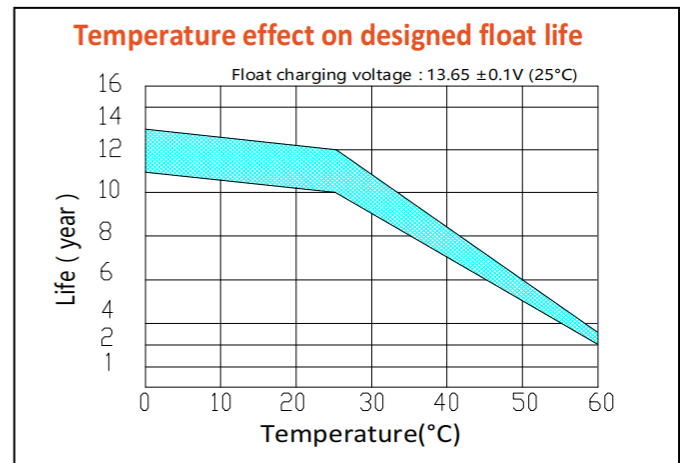
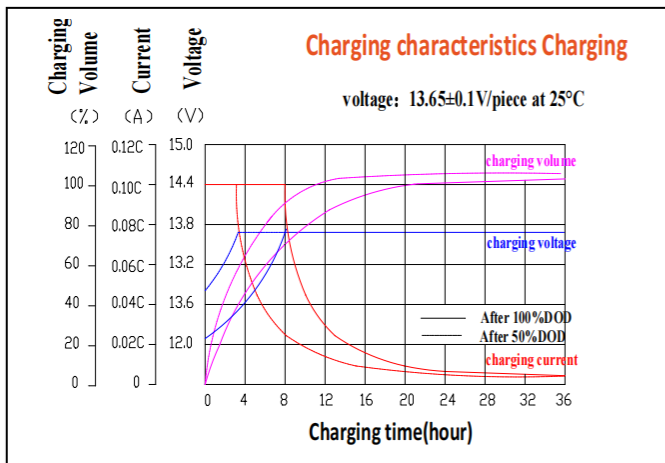
| F.V/Time | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V | 348.8 | 270.8 | 162.5 | 120.8 | 95.7 | 56.3 | 41.4 | 27.9 | 19.1 | 15.8 | 8.33 |
| 1.65V | 322.7 | 255.8 | 157.1 | 116.1 | 92.9 | 54.5 | 40.1 | 27.5 | 18.9 | 15.5 | 8.25 |
| 1.70V | 299.3 | 240.2 | 152.7 | 111.9 | 89.3 | 53.0 | 39.0 | 26.9 | 18.6 | 15.3 | 8.16 |
| 1.75V | 279.5 | 225.0 | 144.8 | 107.0 | 85.7 | 51.6 | 38.1 | 26.4 | 18.3 | 15.2 | 8.09 |
| 1.80V | 251.4 | 211.1 | 139.7 | 103.1 | 82.7 | 49.7 | 36.9 | 25.8 | 18.0 | 15.0 | 7.95 |

Discharge Constant Power per Cell (Watts at 25°C)

| F.V/Time | 10min | 15min | 30min | 45min | 1h | 2h | 3h | 5h | 8h | 10h | 20h |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V | 627.3 | 517.7 | 316.7 | 229.4 | 183.6 | 106.7 | 79.1 | 53.9 | 37.2 | 30.8 | 16.1 |
| 1.65V | 587.1 | 495.3 | 302.9 | 221.6 | 178.7 | 103.8 | 77.0 | 53.0 | 36.9 | 30.5 | 15.9 |
| 1.70V | 549.8 | 461.6 | 290.4 | 214.5 | 172.5 | 101.4 | 75.2 | 52.2 | 36.5 | 30.2 | 15.8 |
| 1.75V | 517.4 | 433.1 | 276.5 | 206.0 | 166.2 | 99.0 | 73.7 | 51.5 | 36.0 | 29.9 | 15.6 |
| 1.80V | 468.3 | 406.5 | 265.2 | 199.1 | 160.8 | 95.7 | 71.6 | 50.4 | 35.6 | 29.7 | 15.5 |

Note: The above data are average values, and can be obtained within 3 charge/discharge cycles. These are not minimum values. Cell and battery designs/specifications are subject to modification without notice. Contact **CSBattery** for the latest information.

Performance Characteristics



Battery Construction

| Component | Positive plate | Negative plate | Container & Cover | Safety valve | Terminal | Separator | Electrolyte | Pillar seal |
|-----------|--|---|--|--------------------------------------|---|--|----------------------------------|-----------------------------|
| Features | Thick high Sn low Ca grid with special paste | Balanced Pb-Ca grid for improved recombination efficiency | Fire resistance ABS (UL94-V0 optional) | Flame Si-Rubber and aging resistance | Female Copper Insert M6(torque :3~4N.m) | Advanced AGM separator for high pressure cell design | Dilute high purity sulfuric acid | Two layers epoxy resin seal |

