# SBFT12-100(12V100Ah)

SKANBATT

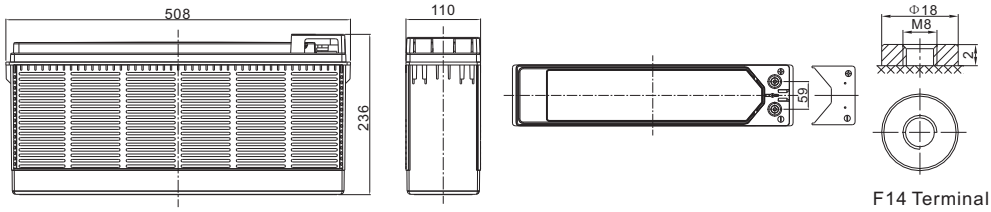
## Specification

| | |
|---|---|
| **Cells Per Unit** | 6 |
| **Voltage Per Unit** | 12V |
| **Nominal Capacity** | 100Ah@10hour-rate to 1.80V per cell @25℃ |
| **Weight** | Approx. 28.5 Kg (Tolerance±5.0%) |
| **Internal Resistance** | ≤6.0 mΩ (Full Charge Condition @25℃) |
| **Terminal** | Default F14(M8) |
| **Max. Discharge Current** | 1000A (5 sec) |
| **Design Life** | 12 years |
| **Max. Charging Current** | 30.0 A |
| **Reference Capacity** | $C_3$ 75.0Ah<br>$C_5$ 85.0Ah<br>$C_{10}$ 100.0Ah<br>$C_{20}$ 106.0Ah |
| **Float Charging Voltage** | 13.5 V~13.8 V @ 25℃<br>Temperature Compensation: -3mV/℃/Cell |
| **Cycle Use Voltage** | 14.6 V~14.8 V @ 25℃<br>Temperature Compensation: -4mV/℃/Cell |
| **Operating Temperature Range** | Discharge: -20℃~60℃<br>Charge: 0℃~50℃<br>Storage: -20℃~60℃ |
| **Normal Operating Temperature Range** | 25℃±5℃ |
| **Self Discharge** | Valve Regulated Lead Acid (VRLA) batteries can be stored for up to 6 months at 25℃ and then recharging is recommended. Monthly Self-discharge ratio is less than 3% at 25℃.Please charge batteries before using. |
| **Container Material** | A.B.S. UL94-HB, UL94-V0 Optional. |

SKANBATT SBFT(Front Terminal) Series is specially designed for telecom use with 12 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 SBFT series are designed for 19" and 23" cabinet in stallation.It is suitable for telecom EPS/EPS, applications.

ISO 9001 ISO 14001 ISO 45001

## Dimensions




| | |
|---|---|
| Length | 508±2mm (20.0 inches) |
| Width | 110±2mm (4.33 inches) |
| Height | 236±2mm (9.29 inches) |
| Total Height | 236±2mm (9.29 inches) |
| Terminal | Value |
| M5 | 9~10 N*m |
| M6 | 11~12 N*m |
| M8 | 14~15 N*m |

Unit: mm

### Constant Current Discharge Characteristics : A (25℃)

| F.V/Time | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 239.1 | 181.6 | 108.4 | 61.1 | 36.4 | 28.2 | 22.2 | 18.9 | 12.7 | 10.5 | 5.52 |
| 1.65V | 225.9 | 173.6 | 104.1 | 59.0 | 35.2 | 27.3 | 21.6 | 18.4 | 12.5 | 10.4 | 5.43 |
| 1.70V | 208.0 | 162.6 | 99.5 | 57.1 | 34.1 | 26.6 | 21.0 | 17.9 | 12.3 | 10.3 | 5.36 |
| 1.75V | 190.4 | 151.3 | 95.1 | 55.0 | 32.9 | 25.8 | 20.4 | 17.4 | 12.2 | 10.1 | 5.30 |
| 1.80V | 172.3 | 139.7 | 90.9 | 52.9 | 31.7 | 25.0 | 19.9 | 17.0 | 12.0 | 10.0 | 5.25 |
| 1.85V | 140.8 | 116.0 | 78.3 | 47.4 | 29.1 | 23.1 | 18.5 | 15.9 | 11.2 | 9.41 | 4.98 |

### Constant Power Discharge Characteristics : W/Cell (25℃)

| F.V/Time | 10MIN | 15MIN | 30MIN | 1HR | 2HR | 3HR | 4HR | 5HR | 8HR | 10HR | 20HR |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1.60V | 406.4 | 317.5 | 196.9 | 114.8 | 69.0 | 53.9 | 42.6 | 36.4 | 24.8 | 20.7 | 10.9 |
| 1.65V | 391.4 | 308.1 | 191.0 | 111.5 | 67.1 | 52.4 | 41.6 | 35.6 | 24.5 | 20.5 | 10.7 |
| 1.70V | 367.0 | 292.8 | 184.4 | 108.6 | 65.3 | 51.2 | 40.6 | 34.8 | 24.2 | 20.2 | 10.6 |
| 1.75V | 342.0 | 276.5 | 178.1 | 105.2 | 63.3 | 49.9 | 39.7 | 34.0 | 23.9 | 20.0 | 10.5 |
| 1.80V | 315.0 | 258.9 | 171.9 | 101.8 | 61.3 | 48.6 | 38.7 | 33.2 | 23.6 | 19.8 | 10.4 |
| 1.85V | 262.0 | 217.9 | 149.5 | 91.9 | 56.5 | 45.1 | 36.1 | 31.1 | 22.2 | 18.6 | 9.87 |

(Note) The above characteristics data are average values obtained within three charge/discharge cycle not the minimum values.
The battery must be fully charged before the capacity test. The $C_{10}$ should reach 95% after the first cycle and 100% after the third cycle.

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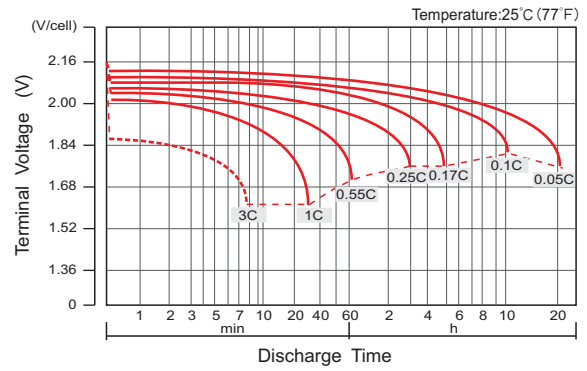
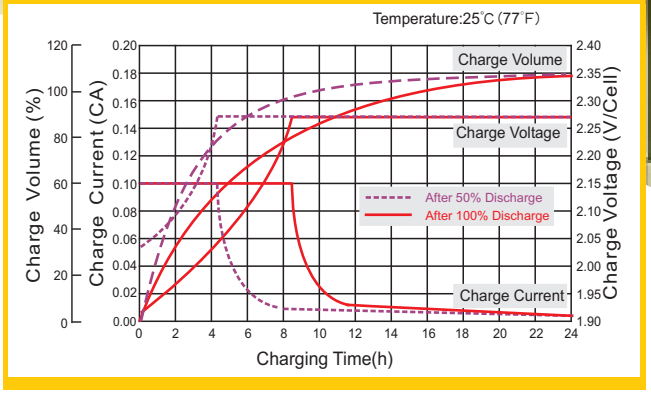
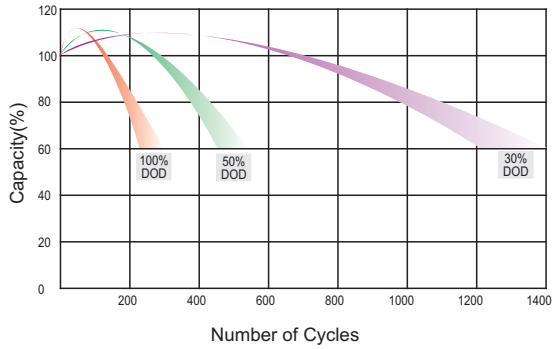
## Discharge Characteristics Curve



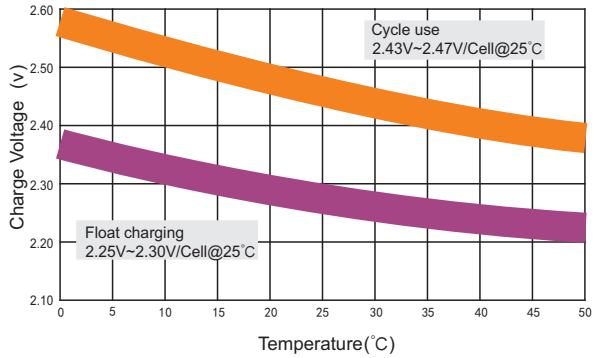

## Charge Characteristic Curve For Standby Use(IU)



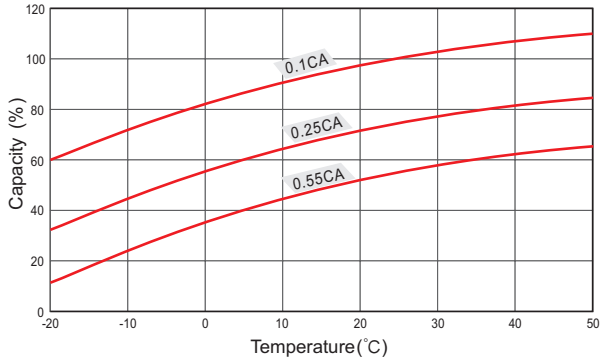

## Cycle Life In Relation To Depth Of Discharge



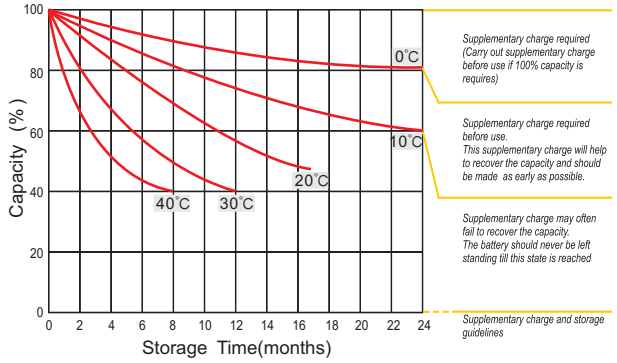

## Relationship Between Charging Voltage And Temperature



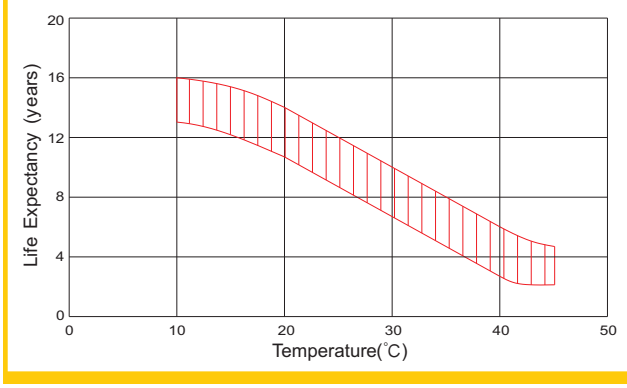

## Temperature Effects On Capacity



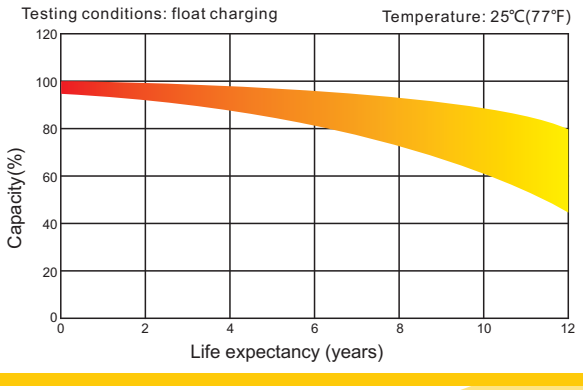

## Storage Characteristics




## Effect Of Temperature On Long Term Life




## Life Characteristics Of Standby Use




(Note) All above information shall be changed without prior notice, reserves the right to explain and update the latest information.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