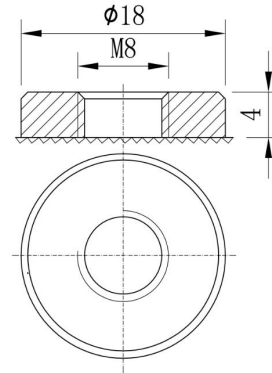


## AGM Deep Cycle Battery

Model: BT-FT-150-12 (12V150AH)



T23

### Application

- ☆ UPS power supply
- ☆ Telecom Equipment
- ☆ Power station
- ☆ Solar/wind energy storage system

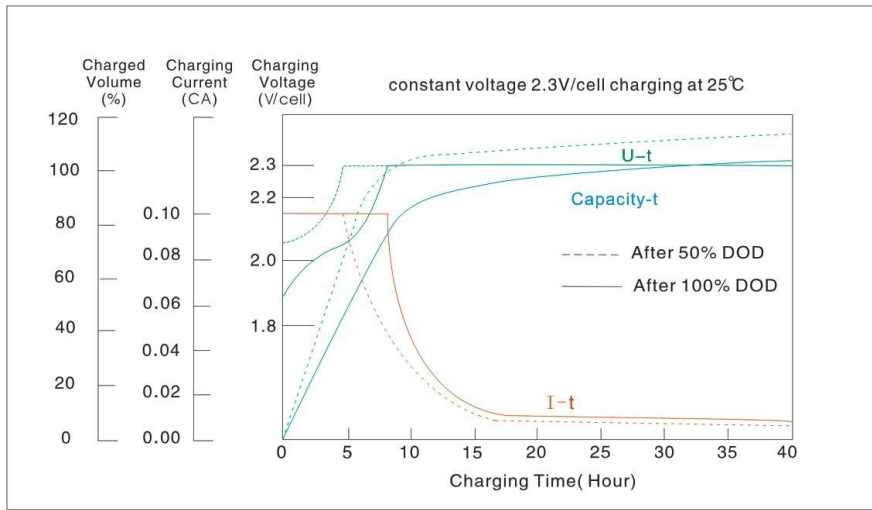
### General Features

- ☆ Thick plates and high-density active material
- ☆ High power density
- ☆ Longer life in deep cycle applications
- ☆ Excellent recovery from deep discharge
- ☆ Wide operating temperature range from -10°C-40°C

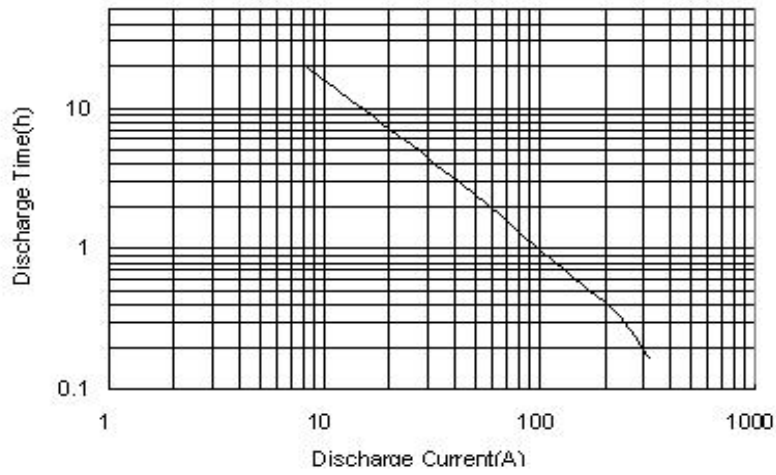
| PHYSICAL SPECIFICATIONS                           |                                     |                        |
|---|-------------------------------------|------------------------|
| <b>Nominal Voltage</b>                            |                                     |                        |
|   | 12V                                 |                        |
| <b>Nominal Capacity (10HR)</b>                    |                                     |                        |
|   | 150AH                               |                        |
| <b>Dimensions</b>                                 | <b>Length</b>                       | 566±5mm                |
|   | <b>Width</b>                        | 110±2mm                |
|   | <b>Container height</b>             | 288±2mm                |
|   | <b>Total Height (with terminal)</b> | 296±2mm                |
| <b>Weight±3%</b>                                  |                                     | Approx 43.5Kg(95.9lbs) |
| <b>Internal Resistance(In full charge status)</b> |                                     | ≈4.15mΩ                |
| <b>Standard Terminals</b>                         |                                     | T23(standard)          |

| Constant – Voltage Charge  |  |
|--|--|
| <b>Cycle application</b>   | <ol style="list-style-type: none"> <li>1. Limit initial current less than 37.5A.</li> <li>2. Charge until battery voltage (under charge) reaches 14.1V to 14.4V at 25°C (77F) .</li> <li>3. Hold at 14.1V to 14.4V until current drop to under 0.9A for at least 3 hours.</li> <li>4. Temperature compensation coefficient of charging voltage is -30mV/°C.</li> </ol> |
| <b>Standby service</b>   | <ol style="list-style-type: none"> <li>1. Hold battery across constant voltage source of 13.6 to 13.8 volts with current limit 37.5A continuously .When held at this voltage , the battery will seek its own current level and maintain itself in a fully charge status.</li> <li>2. Temperature compensation coefficient of charging voltage is -18mV/°C</li> </ol>   |
| NOTE : The battery should be charged within 6 months of storage ,Otherwise , permanent loss of capacity might occur as a result of sulfation |  |

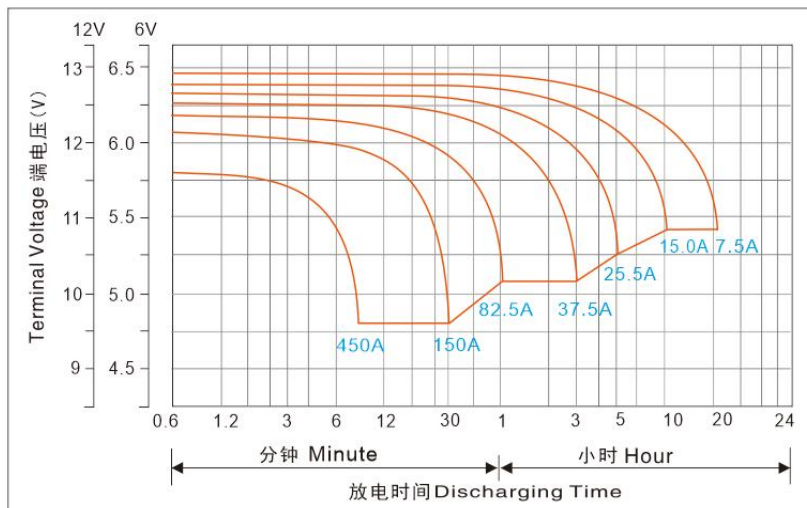
## Charge Characteristics



## Discharge Current & Discharge Duration Time (25°C/77°F)



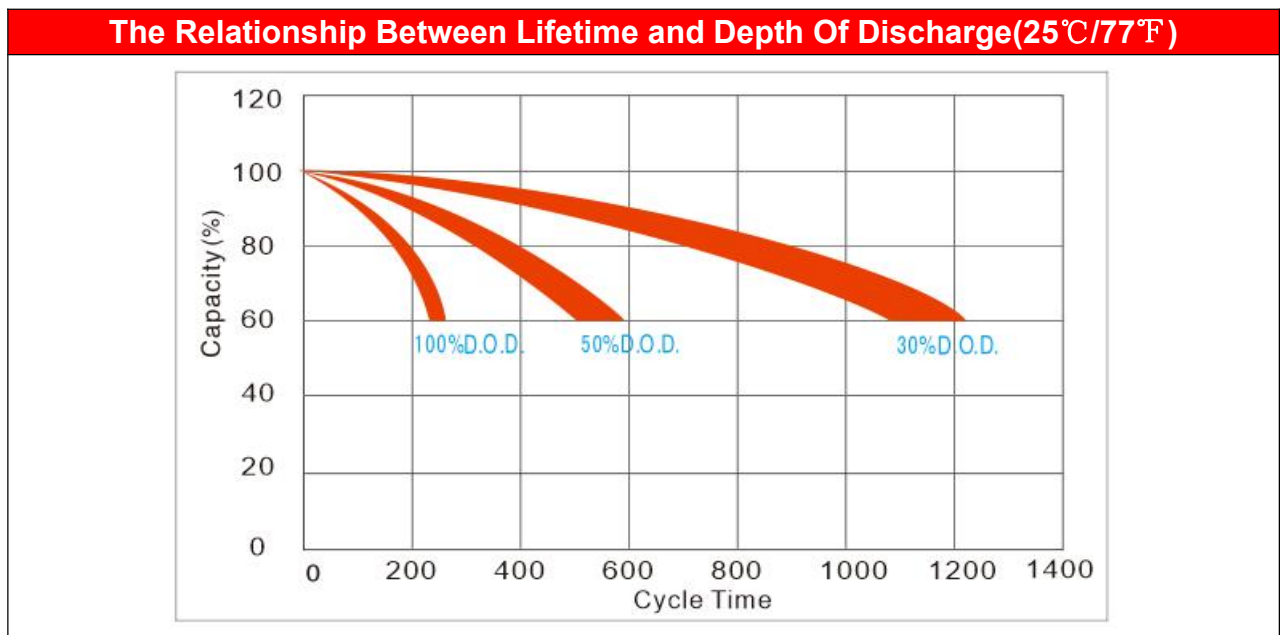
## Discharge Characteristic (25°C/77°F)



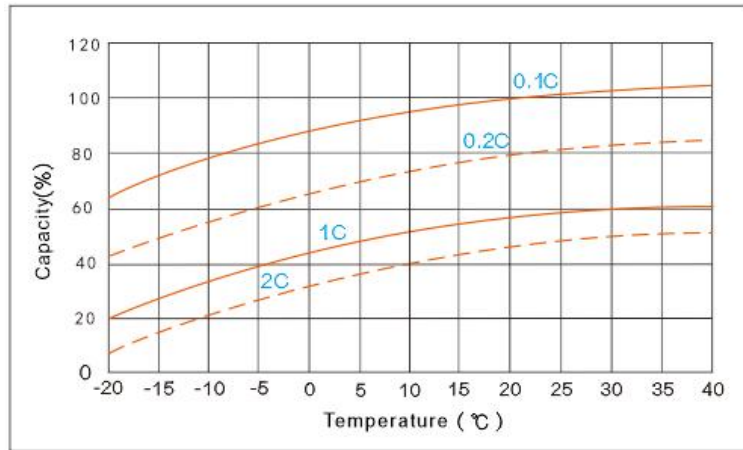
| <b>ELECTRICAL SPECIFICATIONS</b>                      |                     |         |
|---|---------------------|---------|
| <b>Rated Capacity</b>                                 | 20 hour rate(7.5A)  | 154.5AH |
|   | 10 hour rate(15A)   | 150.0AH |
|   | 5 hour rate(25.5A)  | 127.5AH |
|   | 3 hour rate(37.5A)  | 112.5AH |
|   | 1 hour rate (82.5A) | 82.5AH  |
| <b>Capacity affected by Temperature (10Hour Rate)</b> | 40°C(104°F)         | 103%    |
|   | 25°C(77°F)          | 100%    |
|   | 0°C(32°F)           | 86%     |

| <b>Constant Current Discharge Data Sheet ( Amperes at 25°C)</b> |                   |           |           |           |           |                 |            |          |          |          |          |           |           |
|---|-------------------|-----------|-----------|-----------|-----------|-----------------|------------|----------|----------|----------|----------|-----------|-----------|
| <b>End Voltage</b>  | <b>Minute (M)</b> |           |           |           |           | <b>Hour (H)</b> |            |          |          |          |          |           |           |
|   | <b>5</b>          | <b>10</b> | <b>15</b> | <b>30</b> | <b>45</b> | <b>1</b>        | <b>1.5</b> | <b>2</b> | <b>3</b> | <b>5</b> | <b>8</b> | <b>10</b> | <b>20</b> |
| <b>10.20</b>  | 472               | 360       | 271       | 144       | 133       | 93.6            | 73.9       | 61.9     | 38.8     | 26.95    | 19.17    | 15.88     | 8.03      |
| <b>10.50</b>  | 419               | 330       | 253       | 138       | 127       | 89.9            | 71.0       | 59.7     | 37.5     | 25.73    | 18.13    | 15.58     | 7.95      |
| <b>10.80</b>  | 389               | 300       | 237       | 133       | 121       | 86.1            | 68.1       | 57.3     | 36.2     | 24.62    | 17.23    | 15.13     | 7.85      |

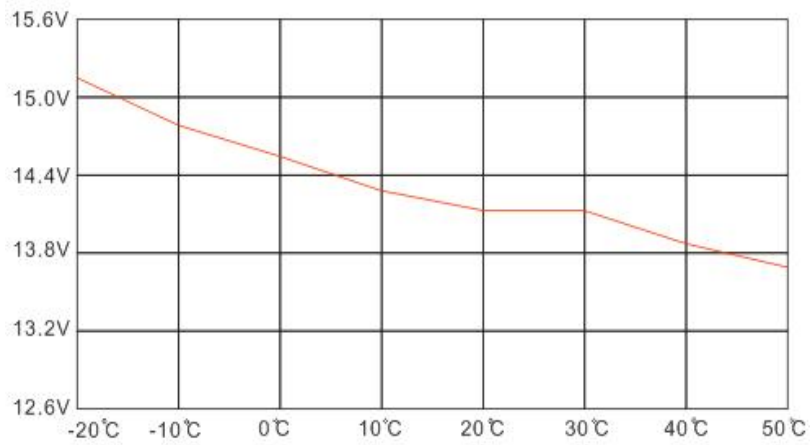
| <b>Constant Power Discharge Data Sheet ( Watt at 25°C)</b> |                   |           |           |           |           |                 |            |          |          |          |          |           |           |
|--|-------------------|-----------|-----------|-----------|-----------|-----------------|------------|----------|----------|----------|----------|-----------|-----------|
| <b>End Voltage</b>   | <b>Minute (M)</b> |           |           |           |           | <b>Hour (H)</b> |            |          |          |          |          |           |           |
|  | <b>5</b>          | <b>10</b> | <b>15</b> | <b>30</b> | <b>45</b> | <b>1</b>        | <b>1.5</b> | <b>2</b> | <b>3</b> | <b>5</b> | <b>8</b> | <b>10</b> | <b>20</b> |
| <b>10.20</b>   | 4695              | 3975      | 2861      | 1797      | 1350      | 1173            | 855        | 644      | 480      | 310      | 230      | 195       | 102.2     |
| <b>10.50</b>   | 4515              | 3375      | 2568      | 1756      | 1320      | 1155            | 842        | 623      | 465      | 300      | 227      | 189       | 99.0      |
| <b>10.80</b>   | 4200              | 3150      | 2452      | 1718      | 1275      | 1103            | 804        | 602      | 449      | 289      | 224      | 180       | 96.8      |



### Capacity Curve at Different Temperature



### Charge Voltage VS Ambient Temperature Curve



### Storage Characteristics

