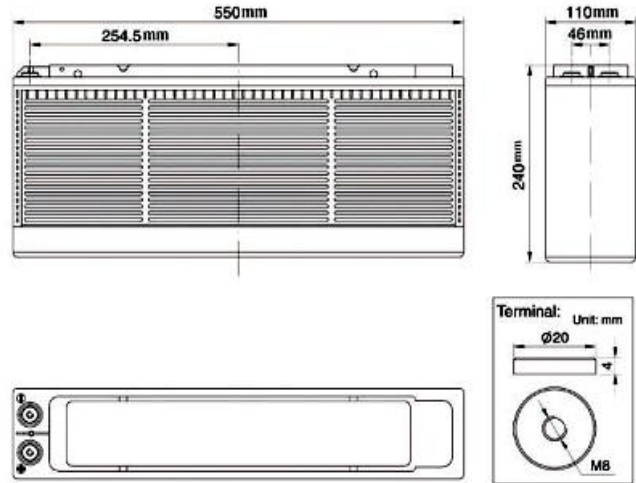


**Product Image**



**Product Dimensions**



**Characteristics**

|   |                           |  |
|---|---------------------------|--|
| Nominal Voltage                                   |                           | 12V  |
| Nominal Capacity (10 hour rate)                   |                           | 100Ah  |
| Capacity<br>25°C (77°F)                           | 20 hour rate (5.25A)      | 105Ah  |
|   | 8 hour rate (12.0A)       | 96.0Ah   |
|   | 5 hour rate (17.5A)       | 87.5Ah   |
|   | 1 hour rate (60.2A)       | 60.2Ah   |
| Internal Resistance                               | Full Charged Battery 25°C | ≤4mΩ   |
| Capacity affected by<br>Temperature<br>(10 hour)  | 40°C (104°F)              | 102%   |
|   | 25°C (77°F)               | 100%   |
|   | 0°C (32°F)                | 85%  |
|   | -15°C (5°F)               | 65%  |
| Self-Discharge<br>25°C (77°F)<br>Capacity         | after 3 month storage     | 90%  |
|   | after 6 month storage     | 80%  |
|   | after 12 month storage    | 62%  |
| Charge<br>(Constant<br>Voltage)<br>25°C<br>(77°F) | Float                     | Initial Charging Current Less than 20A<br>Voltage 13.6-13.8V |
|   | Cycle                     | Initial Charging Current Less than 20A<br>Voltage 14.4-14.9V |

**Packaging**

|                       |                 |              |
|-----------------------|-----------------|--------------|
| Battery<br>Dimensions | Length          | 507mm        |
|                       | Width           | 110mm        |
|                       | Height          | 223mm        |
|                       | Total<br>Height | 223mm        |
| Box<br>Dimensions     | Length          | 517mm        |
|                       | Width           | 125mm        |
|                       | Height          | 287mm        |
| Quantity Per Box      |                 | 1 PC per box |
| Net weight Per Cell   |                 | 30.5 kg±3%   |
| Net weight Per Box    |                 | 30.5kg       |
| Gross Weight          |                 | 31.5kg       |

**Discharge Constant Current per Cell (Amperes at 77°F 25°C)**

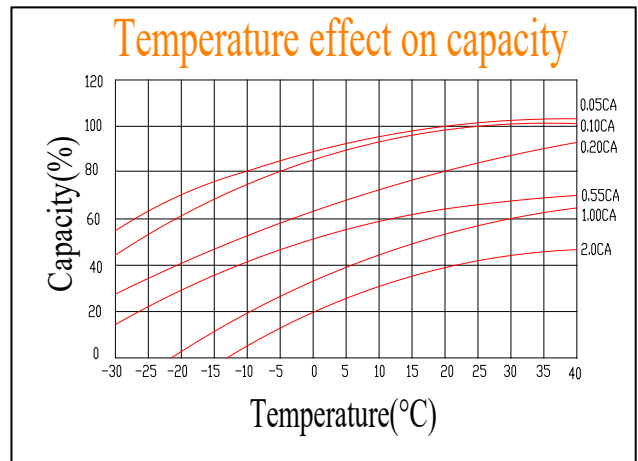
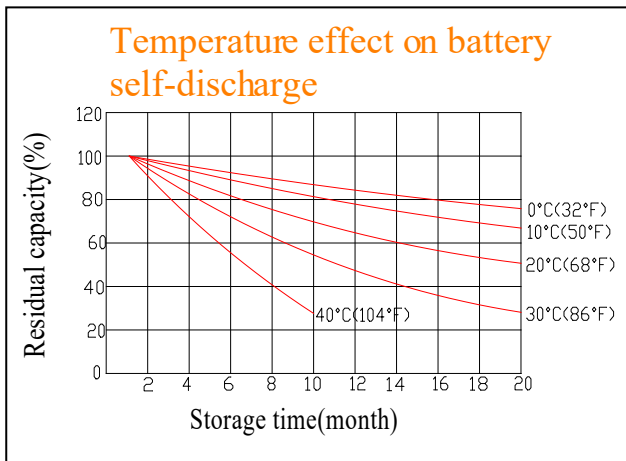
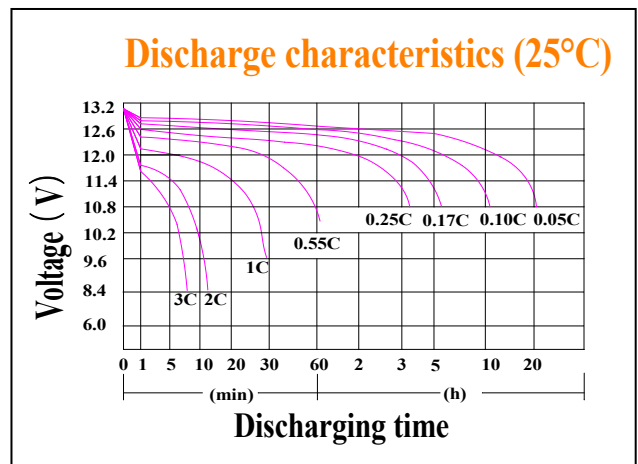
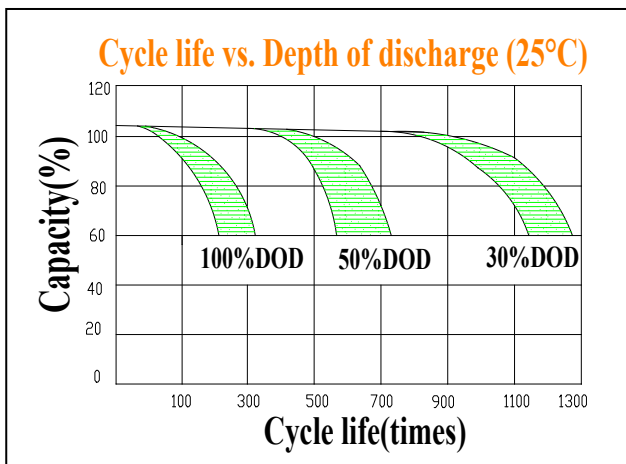
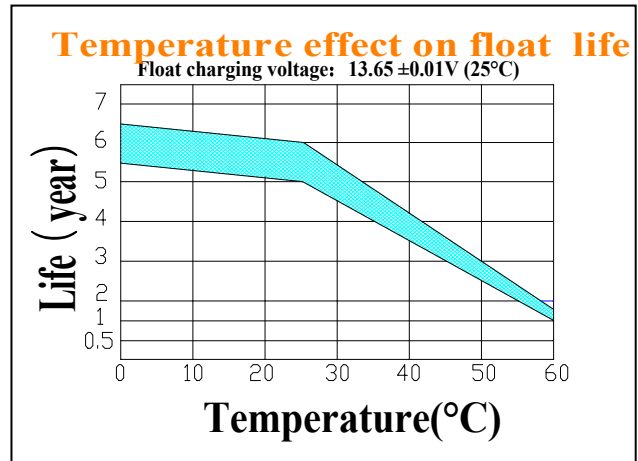
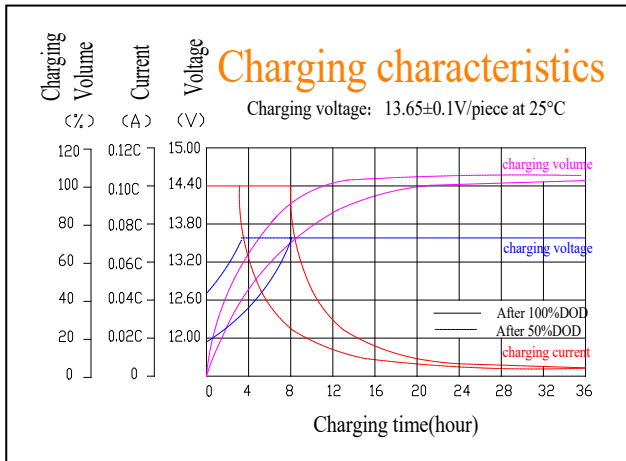
| F.V/Time | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V    | 216.5 | 179.2 | 119.4 | 97.0  | 74.6 | 52.0 | 37.4 | 23.8 | 16.0 | 13.0 | 6.93 |
| 1.65V    | 210.7 | 174.4 | 116.2 | 94.4  | 72.6 | 51.5 | 37.1 | 23.5 | 15.8 | 12.9 | 6.86 |
| 1.70V    | 204.9 | 169.6 | 113.0 | 91.8  | 70.6 | 51.0 | 36.7 | 23.3 | 15.7 | 12.7 | 6.80 |
| 1.75V    | 199.1 | 164.8 | 109.8 | 89.2  | 68.6 | 50.5 | 36.4 | 23.1 | 15.5 | 12.6 | 6.73 |
| 1.80V    | 193.3 | 160.0 | 106.6 | 86.6  | 66.7 | 50.0 | 36.0 | 22.8 | 15.4 | 12.5 | 6.67 |

**Discharge Constant Power per Cell (Watts at 77°F 25°C)**

| F.V/Time | 10min | 15min | 30min | 45min | 1h    | 2h    | 3h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| 1.60V    | 416.7 | 344.9 | 229.9 | 186.8 | 143.7 | 100.1 | 72.1 | 45.7 | 30.7 | 25.0 | 13.3 |
| 1.65V    | 405.6 | 335.6 | 223.8 | 181.8 | 139.8 | 99.1  | 71.4 | 45.3 | 30.4 | 24.8 | 13.2 |
| 1.70V    | 394.4 | 326.4 | 217.6 | 176.8 | 136.0 | 98.2  | 70.7 | 44.8 | 30.1 | 24.5 | 13.1 |
| 1.75V    | 383.2 | 317.2 | 211.4 | 171.8 | 132.2 | 97.2  | 70.0 | 44.4 | 29.8 | 24.3 | 13.0 |
| 1.80V    | 372.1 | 307.9 | 205.3 | 166.8 | 128.3 | 96.2  | 69.3 | 44.0 | 29.6 | 24.1 | 12.8 |

**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 **US** for the latest information.

**Performance Characteristics**



**Battery Construction**

|                     |                |                |           |       |              |          |            |               |
|---------------------|----------------|----------------|-----------|-------|--------------|----------|------------|---------------|
| <b>Component</b>    | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator  | Electrolyte   |
| <b>Raw material</b> | Lead dioxide   | Lead           | ABS       | ABS   | Si-Rubber    | Copper   | Fiberglass | Sulfuric acid |