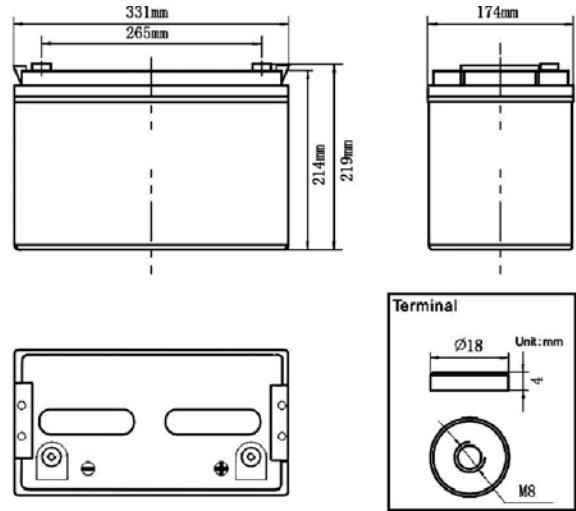


### Product Image



### Product Dimensions



### Characteristics

|   |                           |  |
|---|---------------------------|--|
| Nominal Voltage                                   |                           | 12V  |
| Nominal Capacity (20 hour rate)                   |                           | 110Ah  |
| Capacity<br>25°C (77°F)                           | 10 hour rate (9.9A)       | 99.0Ah   |
|   | 5 hour rate (17.5A)       | 87.5Ah   |
|   | 1 hour rate (61A)         | 61.0Ah   |
| Internal Resistance                               | Full Charged Battery 25°C | ≤5.0mΩ   |
| Capacity affected by<br>Temperature<br>(10 hour)  | 40°C (104°F)              | 102%   |
|   | 25°C (77°F)               | 100%   |
|   | 0°C (32°F)                | 90%  |
|   | -15°C (5°F)               | 70%  |
| Self-Discharge<br>25°C (77°F)<br>Capacity         | after 3 month storage     | 92%  |
|   | after 6 month storage     | 84%  |
|   | after 12 month storage    | 65%  |
| Charge<br>(Constant<br>Voltage)<br>25°C<br>(77°F) | Float                     | Initial Charging Current Less than 22A<br>Voltage 13.6-13.8V |
|   | Cycle                     | Initial Charging Current Less than 22A<br>Voltage 14.4-14.9V |

### Packaging

|                       |                 |              |
|-----------------------|-----------------|--------------|
| Battery<br>Dimensions | Length          | 331mm        |
|                       | Width           | 174mm        |
|                       | Height          | 214mm        |
|                       | Total<br>Height | 219mm        |
| Box<br>Dimensions     | Length          | 346mm        |
|                       | Width           | 188mm        |
|                       | Height          | 289mm        |
| Quantity Per Box      |                 | 1 PC per box |
| Net weight Per Cell   |                 | 32.5 kg±200g |
| Net weight Per Box    |                 | 32.5kg       |
| Gross Weight          |                 | 33kg         |

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

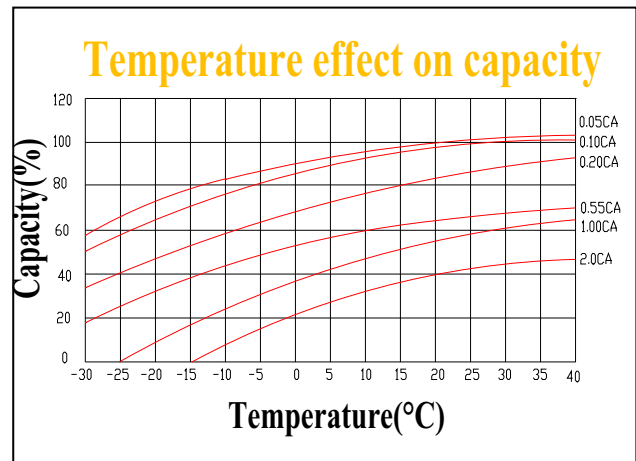
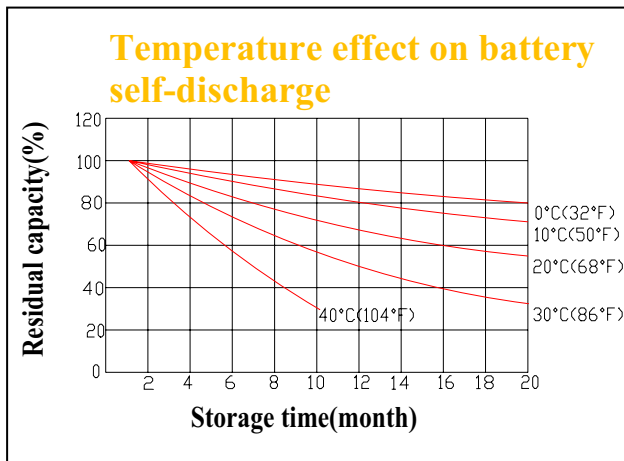
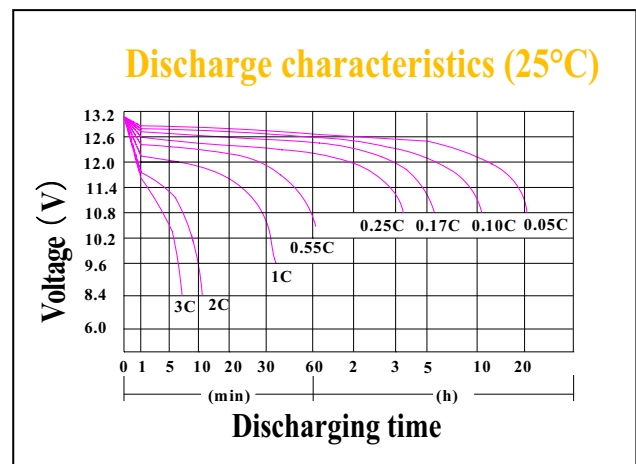
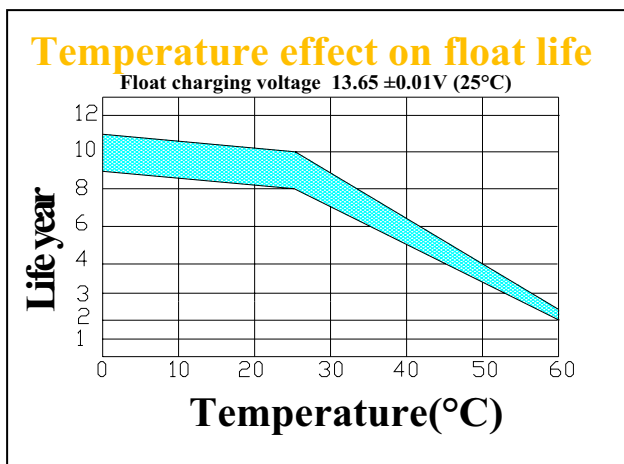
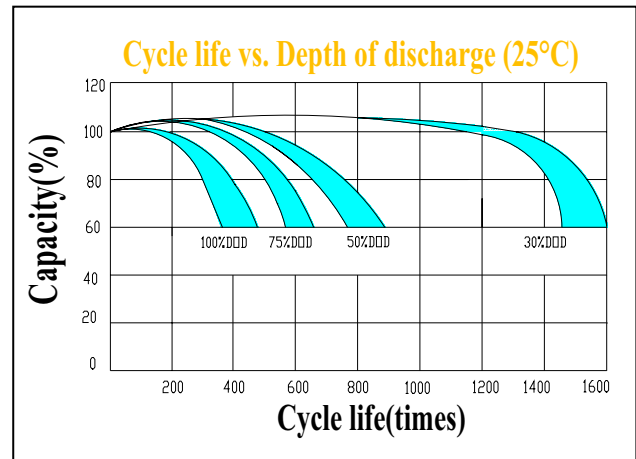
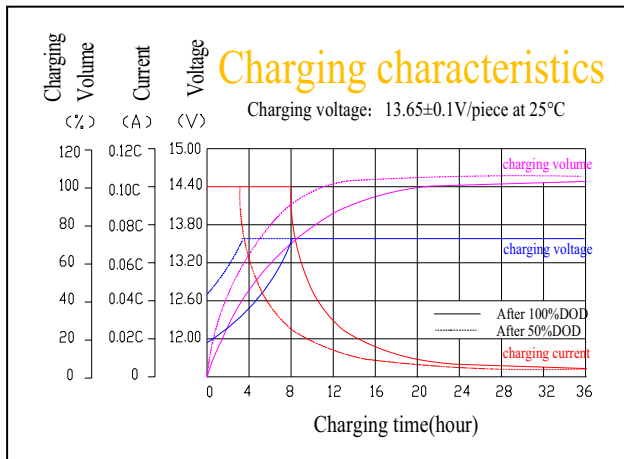
| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 1.60V    | 261.4 | 166.6 | 141.6 | 90.4  | 66.4  | 61.0 | 38.8 | 27.2 | 18.5 | 12.2 | 10.9 | 6.05 |
| 1.65V    | 256.6 | 163.6 | 139.0 | 88.7  | 65.2  | 59.9 | 38.1 | 26.7 | 18.2 | 12.0 | 10.7 | 5.94 |
| 1.70V    | 251.9 | 160.6 | 136.4 | 87.1  | 64.0  | 58.8 | 37.4 | 26.2 | 17.8 | 11.8 | 10.5 | 5.83 |
| 1.75V    | 247.1 | 157.5 | 133.8 | 85.5  | 62.8  | 57.7 | 36.7 | 25.7 | 17.5 | 11.5 | 10.3 | 5.72 |
| 1.80V    | 237.6 | 151.5 | 128.7 | 82.2  | 60.4  | 55.4 | 35.2 | 24.8 | 16.8 | 11.1 | 9.9  | 5.50 |

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

| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h    | 2h   | 3h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|------|
| 1.60V    | 503.1 | 320.7 | 272.5 | 174.0 | 127.9 | 117.4 | 74.6 | 52.4 | 35.6 | 23.5 | 21.0 | 11.6 |
| 1.65V    | 494.0 | 314.9 | 267.6 | 170.8 | 125.6 | 115.3 | 73.3 | 51.5 | 35.0 | 23.1 | 20.6 | 11.4 |
| 1.70V    | 484.8 | 309.1 | 262.6 | 167.7 | 123.2 | 113.1 | 71.9 | 50.5 | 34.3 | 22.6 | 20.2 | 11.2 |
| 1.75V    | 475.7 | 303.2 | 257.7 | 164.5 | 120.9 | 111.0 | 70.6 | 49.5 | 33.7 | 22.2 | 19.8 | 11.0 |
| 1.80V    | 457.4 | 291.6 | 247.7 | 158.2 | 116.3 | 106.7 | 67.8 | 47.6 | 32.4 | 21.3 | 19.1 | 10.6 |

**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 **MCA** for the latest information.

## Performance Characteristics



## Battery Construction

| Component    | Positive plate | Negative plate | Container | Cover | Safety valve | Terminal | Separator  | Electrolyte |
|--------------|----------------|----------------|-----------|-------|--------------|----------|------------|-------------|
| Raw material | Lead dioxide   | Lead           | ABS       | ABS   | Si-Rubber    | Copper   | Fiberglass | GEL         |