

### Features

- ★ Long survives life: ultra particle composite silicate solution is neutral, not corrode plates inside the battery, survive life is up to 15years standby use.
- ★ It will not generate gas in use, the electrolyte is neutral, so it can reduce environmental pollution. The engine Room need no ventilation, explosion-proof, the floor need no acid proof pipeline need not to buried specially, thereby reducing the total cost of the enterprise investment.

### Applications

- ★ Solar system and Wind system
- ★ Solar street light and solar garden light
- ★ Emergency lighting equipment
- ★ Fire alarm and security systems
- ★ Telecommunication equipment
- ★ Electric equipment and telemeter equipment

|   |                           |   |
|---|---------------------------|---|
| Nominal Voltage                                   |                           | 12V   |
| Nominal Capacity (10 hour rate)                   |                           | 24Ah  |
| Capacity<br>25°C (77°F)                           | 20 hour rate (10.6A)      | 26.6Ah  |
|   | 5 hour rate (35.4A)       | 22Ah  |
|   | 1 hour rate (110A)        | 16.0Ah  |
| Internal Resistance                               | Full Charged Battery 25°C | ≤ 14mΩ  |
| 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)               | 75%   |
| Self-Discharge<br>25°C (77°F)<br>Capacity         | after 3 month storage     | 92%   |
|   | after 6 month storage     | 84%   |
|   | after 12 month storage    | 75%   |
| Charge<br>(Constant<br>Voltage)<br>25°C<br>(77°F) | Float                     | Initial Charging Current Less than 6A<br>Voltage 2.23-2.27V |
|   | Cycle                     | Initial Charging Current Less than 6A<br>Voltage 2.33-2.37V |

|                       |                 |                 |
|-----------------------|-----------------|-----------------|
| Battery<br>Dimensions | Length          | 166mm           |
|                       | Width           | 126mm           |
|                       | Height          | 174mm           |
|                       | Total<br>Height | 174mm           |
| Box<br>Dimensions     | Length          | 273mm           |
|                       | Width           | 178mm           |
|                       | Height          | 220mm           |
| Quantity Per Box      |                 | 2 PC per<br>box |
| Net weight Per Cell   |                 | 8.1 kg±100g     |
| Net weight Per Box    |                 | 16.2kg          |
| Gross Weight          |                 | 16.6kg          |

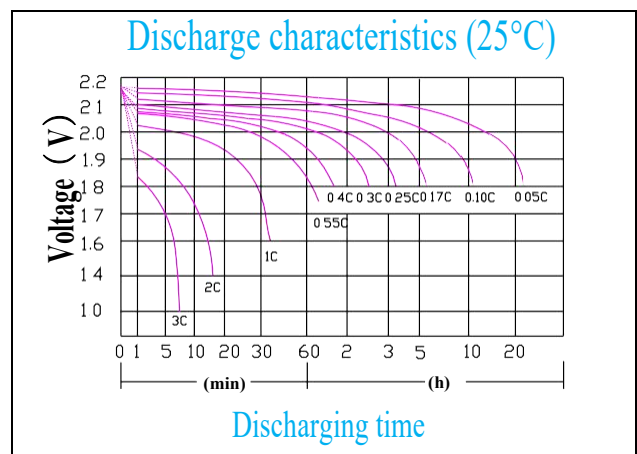
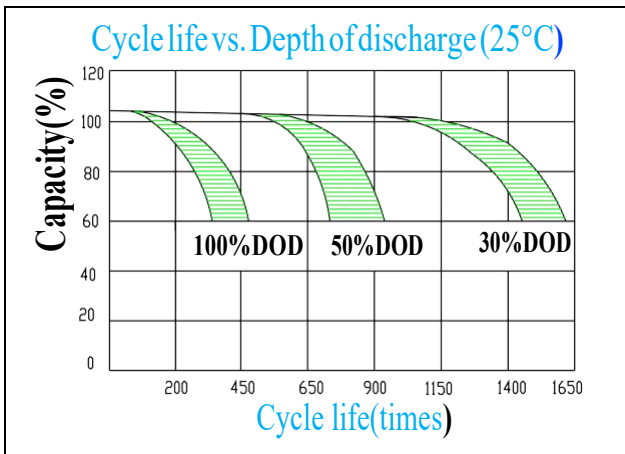
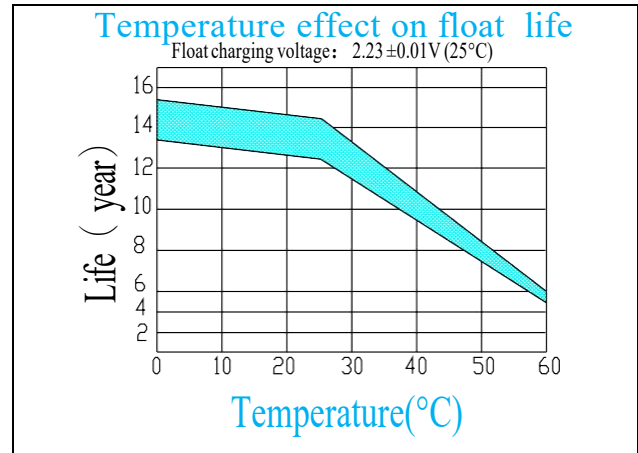
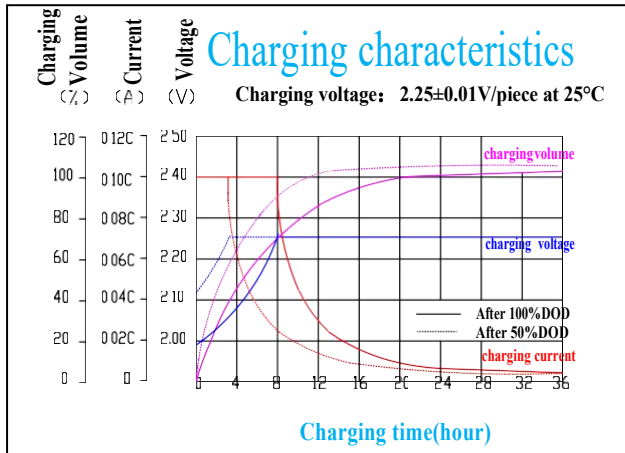
### Discharge Constant Current (Amperes at 77°F25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h   | 2h  | 3h  | 5h  | 8h  | 10h  | 20h  |
|----------|------|-------|-------|-------|-------|------|-----|-----|-----|-----|------|------|
| 1.60V    | 80.7 | 53.8  | 40.5  | 25.2  | 18.1  | 16.0 | 9.7 | 7.1 | 4.6 | 2.8 | 2.50 | 1.39 |
| 1.65V    | 74.4 | 49.6  | 38.8  | 24.5  | 17.6  | 15.5 | 9.6 | 7.0 | 4.5 | 2.8 | 2.47 | 1.37 |
| 1.70V    | 75.7 | 50.4  | 37.1  | 23.9  | 17.1  | 15.1 | 9.4 | 6.9 | 4.4 | 2.7 | 2.45 | 1.36 |
| 1.75V    | 66.8 | 44.5  | 35.5  | 23.2  | 16.6  | 14.7 | 9.2 | 6.7 | 4.4 | 2.7 | 2.42 | 1.35 |
| 1.80V    | 63.0 | 42.0  | 33.8  | 22.5  | 16.2  | 14.3 | 8.9 | 6.5 | 4.3 | 2.7 | 2.40 | 1.33 |

### Discharge Constant Power (Watts at 77°F25°C)

| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h   | 2h   | 3h   | 5h  | 8h  | 10h | 20h |
|----------|-------|-------|-------|-------|-------|------|------|------|-----|-----|-----|-----|
| 1.60V    | 150.5 | 100.3 | 75.6  | 47.0  | 33.7  | 29.8 | 18.1 | 13.3 | 8.5 | 5.2 | 4.7 | 2.6 |
| 1.65V    | 138.7 | 92.4  | 72.4  | 45.8  | 32.8  | 29.0 | 17.8 | 13.0 | 8.4 | 5.2 | 4.6 | 2.6 |
| 1.70V    | 141.1 | 94.0  | 69.3  | 44.5  | 31.9  | 28.2 | 17.5 | 12.8 | 8.3 | 5.1 | 4.6 | 2.5 |
| 1.75V    | 124.6 | 83.0  | 66.1  | 43.2  | 31.0  | 27.4 | 17.1 | 12.5 | 8.2 | 5.1 | 4.5 | 2.5 |
| 1.80V    | 117.6 | 78.3  | 63.0  | 42.0  | 30.1  | 26.6 | 16.7 | 12.2 | 8.1 | 5.0 | 4.5 | 2.5 |

## 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         |

