

### 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                                   |                           | 2V   |
| Nominal Capacity (10 hour rate)                   |                           | 500Ah  |
| Capacity<br>25°C(77°F)                            | 20 hour rate (26.5A)      | 530Ah  |
|   | 5 hour rate (88.4A)       | 442Ah  |
|   | 1 hour rate (275A)        | 275Ah  |
| Internal Resistance                               | Full Charged Battery 25°C | ≤0.31mΩ  |
| 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 75A<br>Voltage 2.23-2.27V |
|   | Cycle                     | Initial Charging Current Less than 75A<br>Voltage 2.33-2.37V |

|                       |                 |                 |
|-----------------------|-----------------|-----------------|
| Battery<br>Dimensions | Length          | 241mm           |
|                       | Width           | 172mm           |
|                       | Height          | 330mm           |
|                       | Total<br>Height | 366mm           |
| Box<br>Dimensions     | Length          | 256mm           |
|                       | Width           | 186mm           |
|                       | Height          | 423mm           |
| Quantity Per Box      |                 | 1 PC per<br>box |
| Net weight Per Cell   |                 | 30.7 kg±500g    |
| Net weight Per Box    |                 | 30.7kg          |
| Gross Weight          |                 | 31.7kg          |

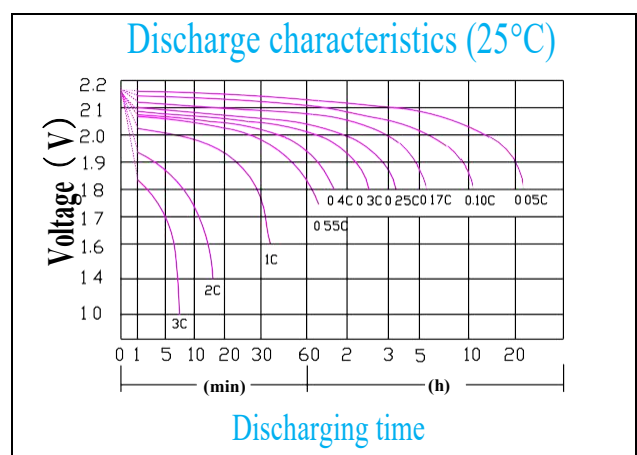
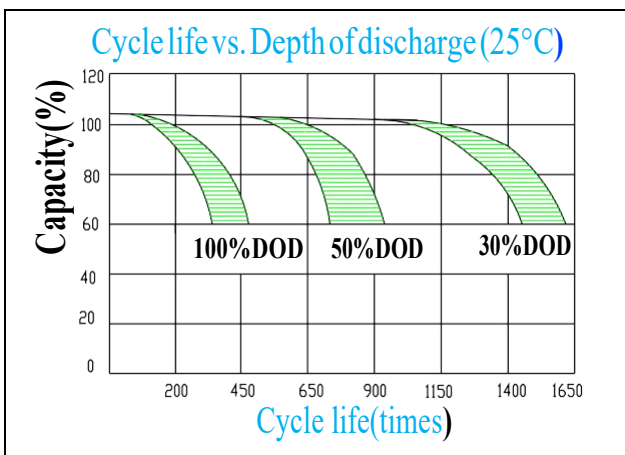
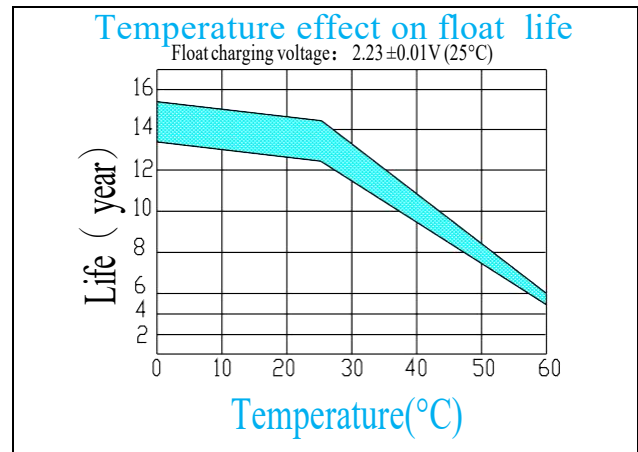
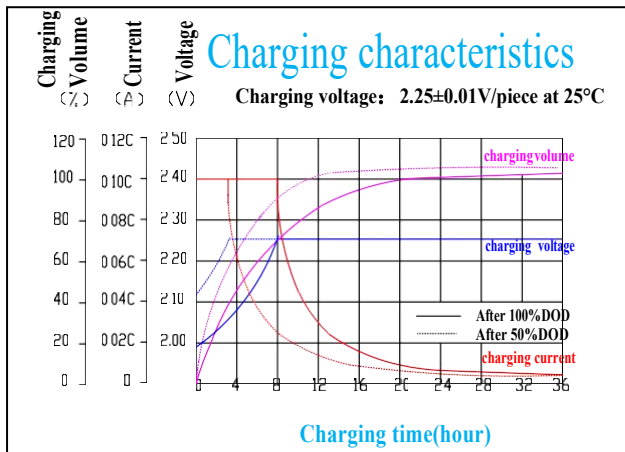
### Discharge Constant Current (Amperes at 77°F25°C)

| F.V/Time | 5min | 10min | 15min | 30min | 45min | 1h  | 2h  | 3h  | 5h | 8h | 10h  | 20h  |
|----------|------|-------|-------|-------|-------|-----|-----|-----|----|----|------|------|
| 1.60V    | 1397 | 902   | 748   | 495   | 369   | 303 | 193 | 138 | 94 | 62 | 55.0 | 29.2 |
| 1.65V    | 1372 | 886   | 734   | 486   | 362   | 297 | 189 | 135 | 92 | 60 | 54.0 | 28.6 |
| 1.70V    | 1346 | 869   | 721   | 477   | 355   | 292 | 186 | 133 | 90 | 59 | 53.0 | 28.1 |
| 1.75V    | 1321 | 853   | 707   | 468   | 348   | 286 | 182 | 130 | 88 | 58 | 52.0 | 27.6 |
| 1.80V    | 1270 | 820   | 680   | 450   | 335   | 275 | 175 | 125 | 85 | 56 | 50.0 | 26.5 |

### 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    | 2689 | 1736  | 1440  | 953   | 709   | 582 | 371 | 265 | 180 | 119 | 105.9 | 56.1 |
| 1.65V    | 2640 | 1705  | 1414  | 936   | 696   | 572 | 364 | 260 | 177 | 116 | 104.0 | 55.1 |
| 1.70V    | 2591 | 1673  | 1388  | 918   | 684   | 561 | 357 | 255 | 173 | 114 | 102.0 | 54.1 |
| 1.75V    | 2543 | 1642  | 1361  | 901   | 671   | 551 | 350 | 250 | 170 | 112 | 100.1 | 53.1 |
| 1.80V    | 2445 | 1579  | 1309  | 866   | 645   | 529 | 337 | 241 | 164 | 108 | 96.3  | 51.0 |

## 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         |

