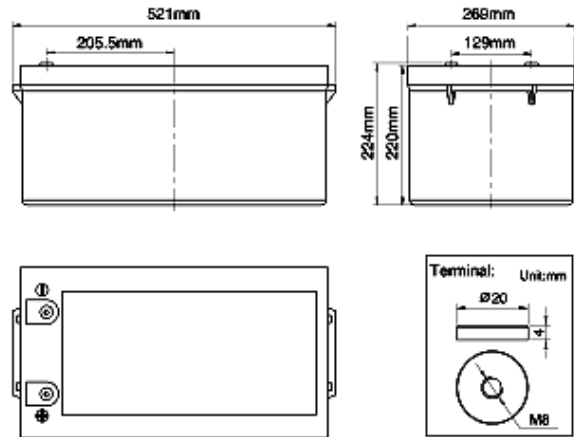


## Product Image



## Product Dimensions



## Characteristics

|   |                           |  |
|---|---------------------------|--|
| Nominal Voltage                                   |                           | 12V  |
| Nominal Capacity (10 hour rate)                   |                           | 250Ah  |
| Capacity<br>25°C (77°F)                           | 20 hour rate (13.88A)     | 277.6Ah  |
|   | 5 hour rate (45.7A)       | 228.5Ah  |
|   | 1 hour rate (184.8A)      | 184.8Ah  |
| Internal Resistance                               | Full Charged Battery 25°C | ≤2.0m Ω  |
| 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 50A<br>Voltage 13.6-13.8V |
|   | Cycle                     | Initial Charging Current Less than 50A<br>Voltage 14.4-14.9V |

## Packaging

|                       |                 |              |
|-----------------------|-----------------|--------------|
| Battery<br>Dimensions | Length          | 521mm        |
|                       | Width           | 269mm        |
|                       | Height          | 220mm        |
|                       | Total<br>Height | 224mm        |
| Box<br>Dimensions     | Length          | 537mm        |
|                       | Width           | 284mm        |
|                       | Height          | 299mm        |
| Quantity Per Box      |                 | 1 PC per box |
| Net weight Per Cell   |                 | 70.0 kg±500g |
| Net weight Per Box    |                 | 70.0kg       |
| Gross Weight          |                 | 70.8kg       |

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

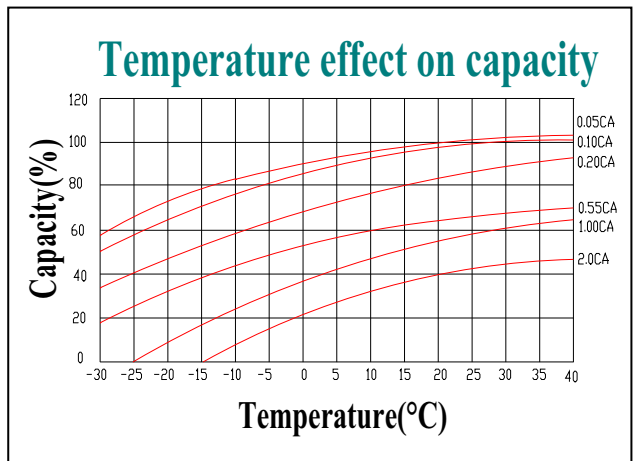
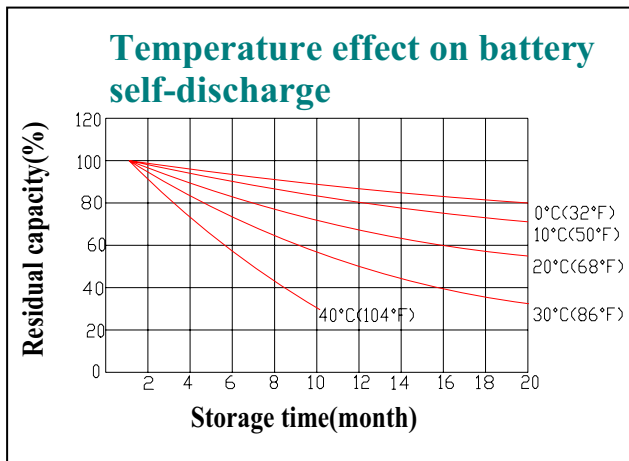
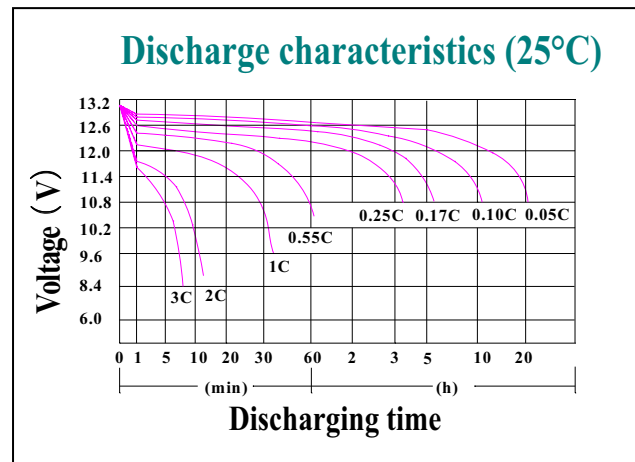
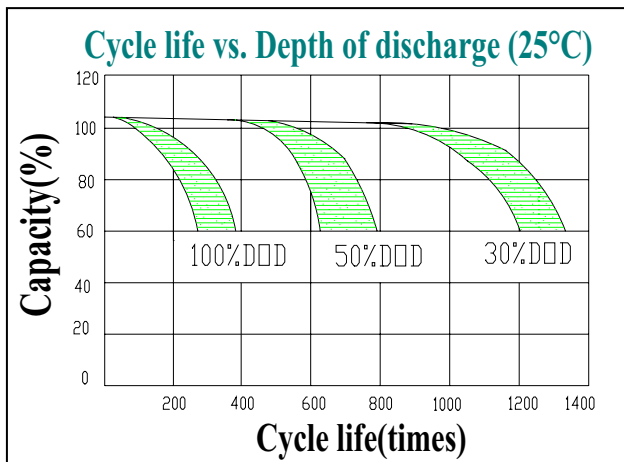
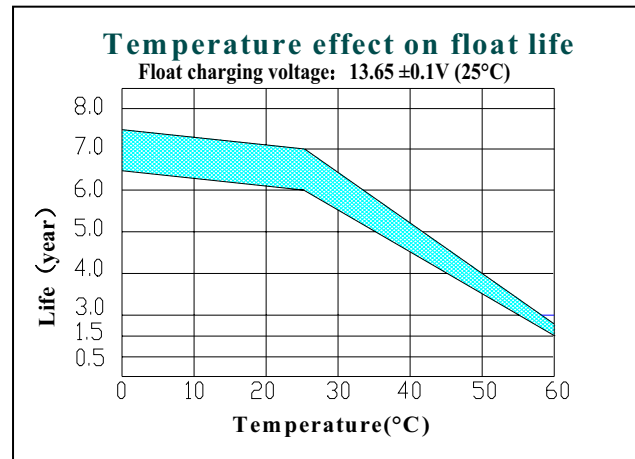
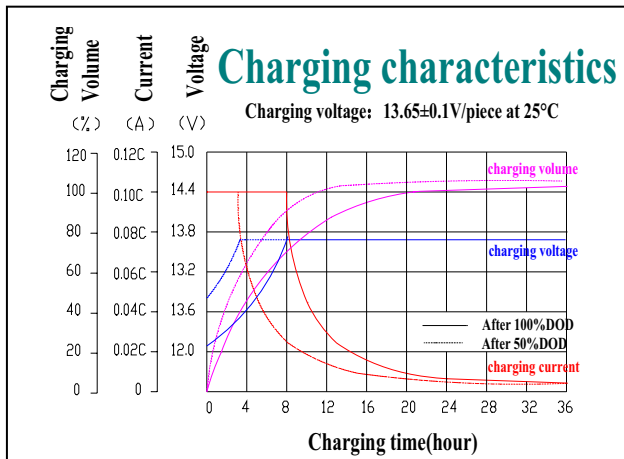
| F.V/Time | 5min  | 10min | 15min | 30min | 45min | 1h    | 2h    | 3h   | 5h   | 8h   | 10h   | 20h   |
|----------|-------|-------|-------|-------|-------|-------|-------|------|------|------|-------|-------|
| 1.60V    | 840.6 | 560.0 | 422.1 | 262.6 | 188.4 | 184.8 | 101.4 | 74.1 | 47.7 | 29.1 | 26.00 | 14.43 |
| 1.65V    | 775.0 | 516.3 | 404.5 | 255.6 | 183.4 | 179.9 | 99.5  | 72.8 | 47.0 | 28.8 | 25.75 | 14.29 |
| 1.70V    | 788.1 | 525.0 | 386.9 | 248.6 | 178.3 | 174.9 | 97.7  | 71.4 | 46.4 | 28.6 | 25.50 | 14.15 |
| 1.75V    | 696.2 | 463.8 | 369.3 | 241.5 | 173.3 | 170.0 | 95.3  | 69.7 | 45.7 | 28.3 | 25.25 | 14.01 |
| 1.80V    | 656.8 | 437.5 | 351.8 | 234.5 | 168.3 | 165.0 | 93.0  | 68.0 | 45.0 | 28.0 | 25.00 | 13.88 |

### 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    | 1567.8 | 1044.4 | 787.2 | 489.8 | 351.4 | 344.7 | 189.1 | 138.2 | 89.0 | 54.3 | 48.5 | 26.9 |
| 1.65V    | 1445.3 | 962.8  | 754.4 | 476.7 | 342.0 | 335.4 | 185.6 | 135.7 | 87.7 | 53.8 | 48.0 | 26.7 |
| 1.70V    | 1469.8 | 979.1  | 721.6 | 463.6 | 332.6 | 326.2 | 182.1 | 133.2 | 86.4 | 53.3 | 47.6 | 26.4 |
| 1.75V    | 1298.3 | 864.9  | 688.8 | 450.5 | 323.2 | 317.0 | 177.8 | 130.0 | 85.2 | 52.7 | 47.1 | 26.1 |
| 1.80V    | 1224.8 | 815.9  | 656.0 | 437.3 | 313.8 | 307.7 | 173.4 | 126.8 | 83.9 | 52.2 | 46.6 | 25.9 |

**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         |