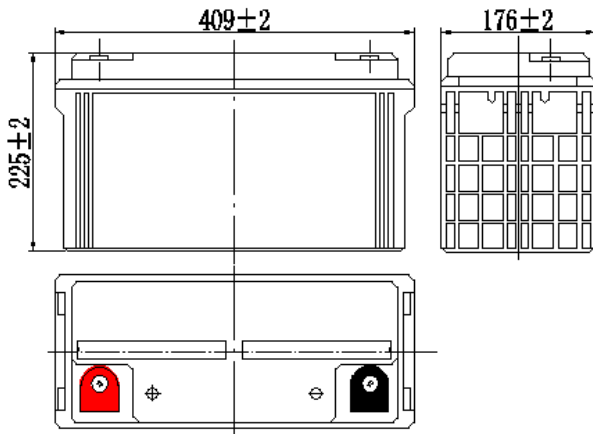


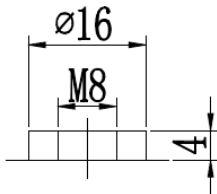
#### Specifications

|                      |              |                      |
|----------------------|--------------|----------------------|
| Nominal Voltage      |              | 12 V                 |
| Rated capacity(10HR) |              | 120Ah                |
| Dimension            | Length       | 409±2mm (16.10inch)  |
|                      | Width        | 176±2mm (6.93inch)   |
|                      | Height       | 225±2mm (8.86inch)   |
|                      | Total Height | 225±2mm (8.86inch)   |
| Approx. Weight       |              | 36.2kg (79.81lbs)±3% |

#### Dimensions



#### Terminal



#### Characteristics

|   |   |                             |
|---|---|-----------------------------|
| Capacity (25°C)                           | 10HR(10.8V)   | 120 Ah                      |
|   | 3HR(10.8V)  | 91.5Ah                      |
|   | 1HR(10.5V)  | 70Ah                        |
| Terminal type                             |   | T16                         |
| Internal resistance (Fully charged, 25°C) |   | Approx. 4mΩ                 |
| Capacity affected by temperature (10HR)   | 40°C  | 102%                        |
|   | 25°C  | 100%                        |
|   | 0°C   | 85%                         |
|   | -15°C   | 65%                         |
| Self-discharge (25°C)                     | 3 month   | Remaining Capacity: 91%     |
|   | 6 month   | Remaining Capacity: 82%     |
|   | 12 month  | Remaining Capacity: 65%     |
| Nominal operating temperature             |   | 25°C ± 3°C (77°F ± 5°F)     |
| Operating temperature range               | Discharge   | -15°C ~ 50°C (5°F ~ 122°F)  |
|   | Charge  | -10°C ~ 50°C (14°F ~ 122°F) |
|   | Storage   | -20°C ~ 50°C (-4°F ~ 122°F) |
| Float charging voltage(25°C)              | 13.50 to 13.80V<br>Temperature compensation: -18mV/°C |                             |
| Cyclic charging voltage(25°C)             | 14.50 to 15.00V<br>Temperature compensation: -30mV/°C |                             |
| Maximum charging current                  | 36A   |                             |
| Terminal material                         | Copper  |                             |
| Maximum discharge current                 | 950A(5 sec.)  |                             |
| Designed floating life(20°C)              | 10 years  |                             |

#### Construction

| Component    | Positive plate | Negative plate | Container | Cover | Separator | Electrolyte   | Safety valve | Terminal |
|--------------|----------------|----------------|-----------|-------|-----------|---------------|--------------|----------|
| Raw material | Lead dioxide   | Lead           | ABS       | ABS   | AGM       | Sulfuric acid | Rubber       | Copper   |

#### Constant Current Discharge Characteristics (A, 25°C)

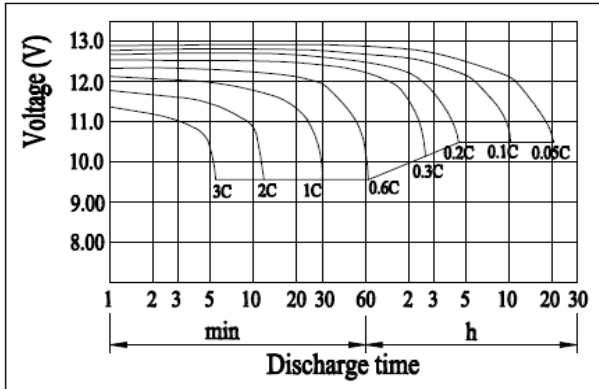
| F.V/TIME | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 9.60V    | 268   | 207   | 124   | 76.0  | 44.9 | 32.4 | 25.8 | 22.1 | 15.2 | 12.5 | 6.64 |
| 9.90V    | 260   | 202   | 121   | 74.9  | 44.7 | 32.2 | 25.7 | 22.0 | 15.1 | 12.5 | 6.62 |
| 10.2V    | 249   | 194   | 117   | 73.0  | 44.3 | 32.0 | 25.5 | 21.8 | 15.0 | 12.5 | 6.60 |
| 10.5V    | 239   | 188   | 115   | 70.7  | 43.6 | 31.7 | 25.3 | 21.6 | 14.9 | 12.4 | 6.56 |
| 10.8V    | 225   | 178   | 110   | 68.4  | 42.5 | 30.8 | 24.6 | 21.0 | 14.4 | 12.3 | 6.52 |

#### Constant Power Discharge Characteristics (Watt, 25°C)

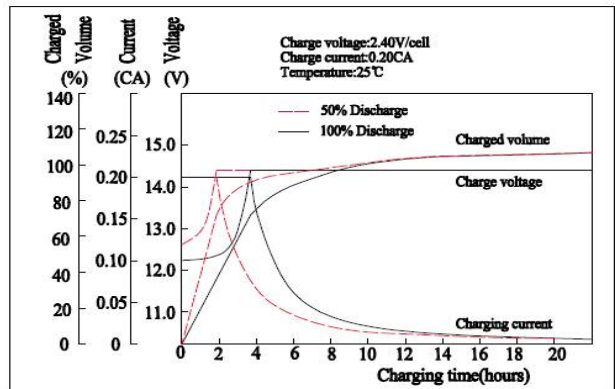
| F.V/TIME | 10min | 15min | 30min | 60min | 2h  | 3h  | 4h  | 5h  | 8h  | 10h | 20h  |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|-----|-----|------|
| 9.60V    | 2896  | 2269  | 1387  | 867   | 520 | 381 | 304 | 261 | 180 | 150 | 79.6 |
| 9.90V    | 2809  | 2214  | 1359  | 854   | 517 | 378 | 302 | 259 | 179 | 149 | 79.5 |
| 10.2V    | 2693  | 2133  | 1318  | 832   | 513 | 376 | 300 | 258 | 178 | 149 | 79.2 |
| 10.5V    | 2577  | 2060  | 1286  | 806   | 505 | 373 | 298 | 256 | 177 | 148 | 78.8 |
| 10.8V    | 2433  | 1951  | 1239  | 780   | 492 | 362 | 289 | 248 | 172 | 147 | 78.2 |

Note: The above characteristics data can be obtained within three charge/discharge cycles.

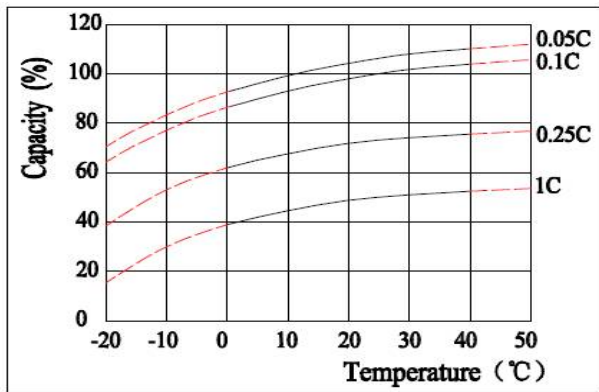
### Discharge Characteristics(25°C)



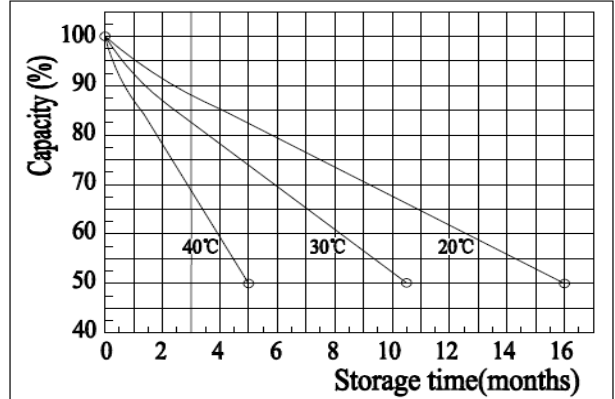
### Charging Characteristics(25°C)



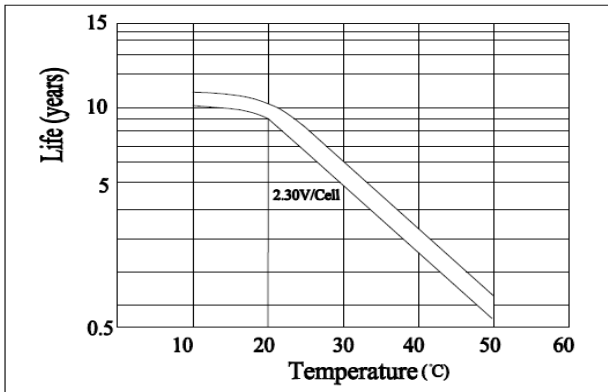
### Effect of Temperature on Capacity



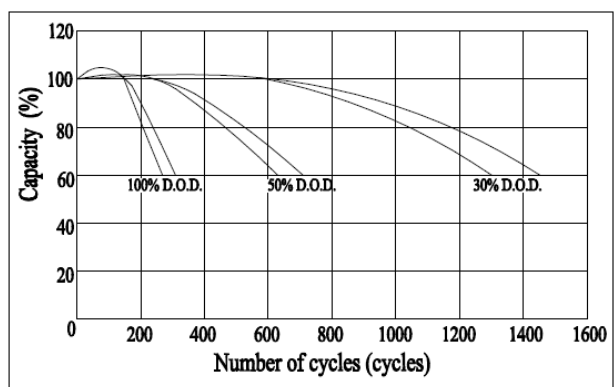
### Self-discharge Characteristics



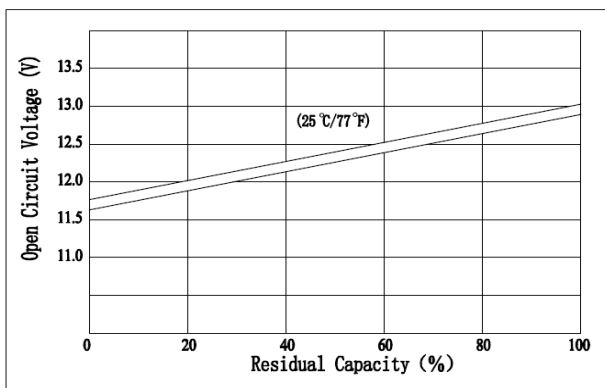
### Floating Life on Temperature



### Cycle Life on D.O.D(25°C)



### The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



### The Relationship for Charging Voltage and Temperature

