

**Specifications**

|                                                  |              |                                                       |
|--------------------------------------------------|--------------|-------------------------------------------------------|
| Nominal Voltage                                  |              | 6 V                                                   |
| Capacity<br>(25℃)                                | 10HR(5.40V)  | 100 Ah                                                |
|                                                  | 5HR(5.25V)   | 87Ah                                                  |
|                                                  | 1HR(4.80V)   | 62Ah                                                  |
| Dimension                                        | Length       | 281 ± 2mm (11.06inch)                                 |
|                                                  | Width        | 128 ± 2mm (5.04inch)                                  |
|                                                  | Height       | 189 ± 2mm (7.44inch)                                  |
|                                                  | Total Height | 204 ± 2mm (8.03inch)                                  |
| Approx. Weight                                   |              | 15.5kg (34.2lbs) ± 4%                                 |
| Terminal type                                    |              | T11                                                   |
| Internal resistance<br>(Fully charged, 25℃)      |              | Approx. 3m Ω                                          |
| Capacity<br>affected by<br>temperature<br>(10HR) | 40℃          | 102%                                                  |
|                                                  | 25℃          | 100%                                                  |
|                                                  | 0℃           | 85%                                                   |
|                                                  | -15℃         | 65%                                                   |
| Self-discharge<br>(25℃)                          | 3 month      | Remaining Capacity: 91%                               |
|                                                  | 6 month      | Remaining Capacity: 82%                               |
|                                                  | 12 month     | Remaining Capacity: 65%                               |
| Nominal operating<br>temperature                 |              | 25℃ ± 3℃ (77°F ± 5°F)                                 |
| Operating<br>temperature<br>range                | Discharge    | -15℃ ~ 50℃ (5°F ~ 122°F)                              |
|                                                  | Charge       | -10℃ ~ 50℃ (14°F ~ 122°F)                             |
|                                                  | Storage      | -20℃ ~ 50℃ (-4°F ~ 122°F)                             |
| Float charging voltage(25℃)                      |              | 6.75 to 6.90V<br>Temperature compensation:<br>-9mV/℃  |
| Cyclic charging voltage(25℃)                     |              | 7.25 to 7.45V<br>Temperature compensation:<br>-15mV/℃ |
| Maximum charging current                         |              | 30A                                                   |
| Terminal material                                |              | Copper                                                |
| Maximum discharge current                        |              | 800A(5 sec.)                                          |
| Designed floating life(20℃)                      |              | 12 years                                              |

- ◆ Absorbent glass mat technology;
- ◆ Recognized by UL & CE;
- ◆ ABS container.

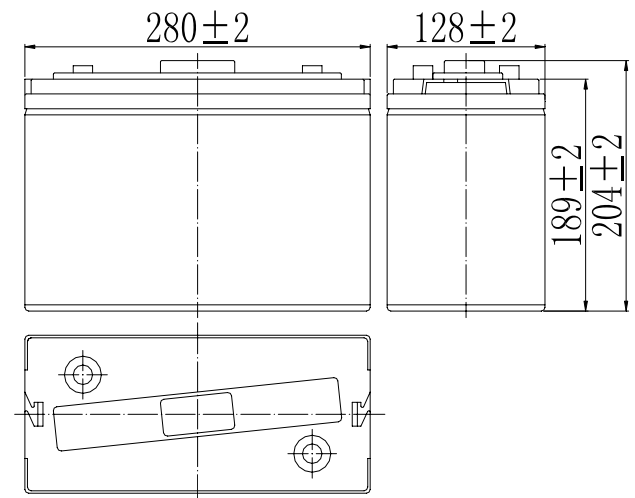
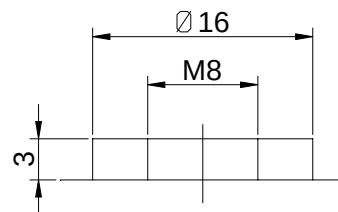
**Constant Current Discharge Characteristics (A, 25℃)**

| F.V/TIME | 10min | 15min | 30min | 60min | 2h   | 3h   | 4h   | 5h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|------|------|------|------|------|------|------|
| 4.80V    | 210   | 165   | 100   | 62.0  | 36.5 | 25.5 | 20.9 | 17.9 | 12.2 | 10.2 | 5.34 |
| 4.95V    | 204   | 161   | 98.0  | 61.1  | 36.3 | 25.4 | 20.8 | 17.7 | 12.2 | 10.2 | 5.33 |
| 5.10V    | 195   | 155   | 95.0  | 59.5  | 36.0 | 25.2 | 20.6 | 17.6 | 12.1 | 10.1 | 5.32 |
| 5.25V    | 187   | 150   | 92.7  | 58.3  | 35.5 | 25.0 | 20.5 | 17.5 | 12.0 | 10.1 | 5.29 |
| 5.40V    | 176   | 142   | 89.3  | 56.5  | 34.6 | 24.3 | 19.9 | 17.0 | 11.6 | 10.0 | 5.25 |

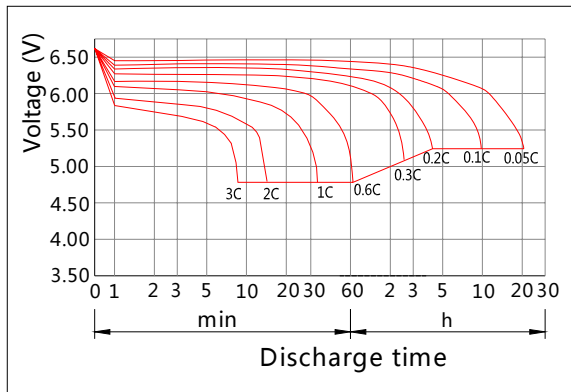
**Constant Power Discharge Characteristics (Watt, 25℃)**

| F.V/TIME | 10min | 15min | 30min | 60min | 2h  | 3h  | 4h  | 5h  | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-------|-----|-----|-----|-----|------|------|------|
| 4.80V    | 1134  | 906   | 561   | 353   | 212 | 150 | 123 | 105 | 72.7 | 60.8 | 32.1 |
| 4.95V    | 1100  | 884   | 550   | 348   | 210 | 149 | 122 | 105 | 72.3 | 60.7 | 32.0 |
| 5.10V    | 1055  | 851   | 533   | 339   | 208 | 148 | 121 | 104 | 71.8 | 60.5 | 31.9 |
| 5.25V    | 1009  | 823   | 520   | 333   | 205 | 147 | 121 | 103 | 71.3 | 60.1 | 31.7 |
| 5.40V    | 953   | 779   | 501   | 322   | 200 | 143 | 117 | 100 | 69.1 | 59.7 | 31.5 |

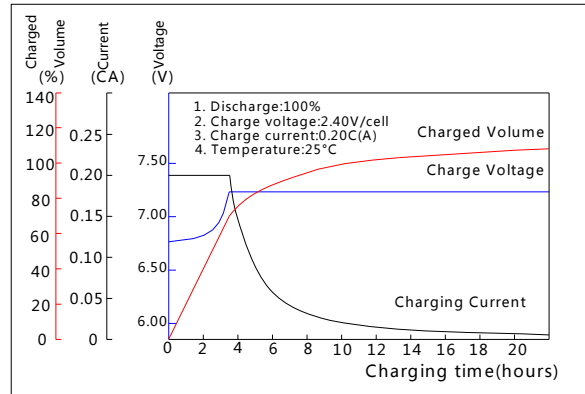
Note: The above characteristics data can be obtained within three charge/discharge cycles.

**Dimensions****Terminal****Terminal T11**

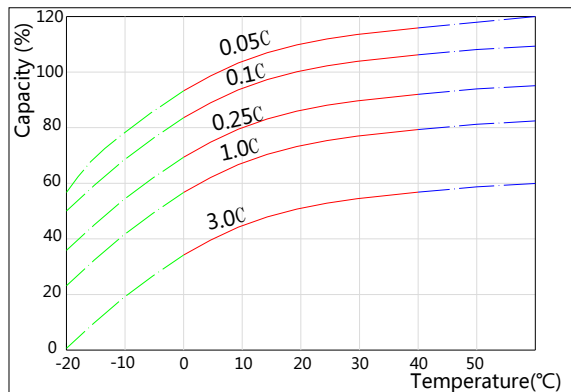
### Discharge Characteristics(25°C)



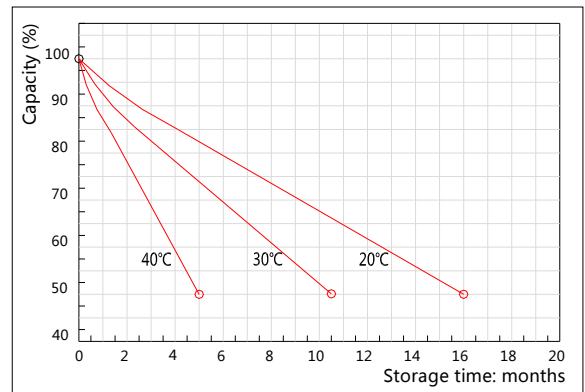
### Charging Characteristics(25°C)



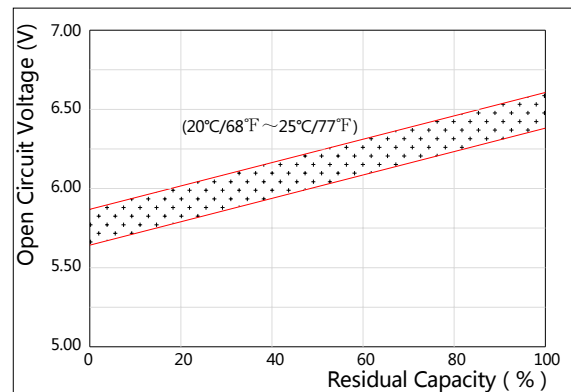
### Effect of Temperature on Capacity



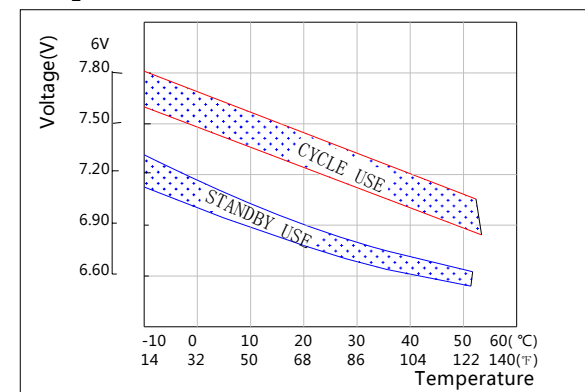
### Self-discharge Characteristics



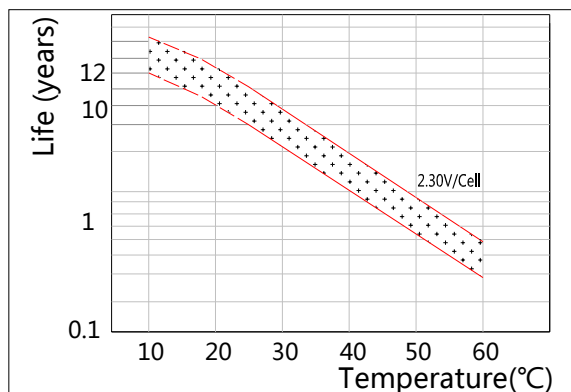
### The Relationship for Open Circuit Voltage and Residual Capacity (25°C)



### The Relationship for Charging Voltage and Temperature



### Floating Life on Temperature



### Cycle Life on D.O.D(25°C)

