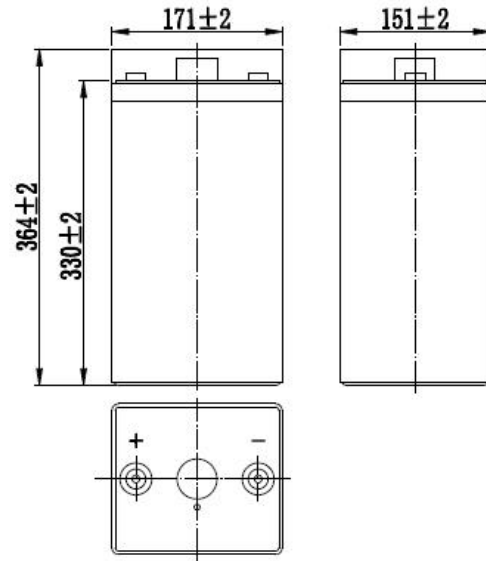
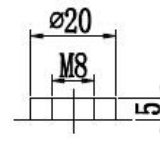


**Specifications**

|  |              |   |
|--|--------------|---|
| Nominal Voltage                                  |              | 2 V   |
| Capacity<br>(25°C)                               | 10HR(1.80V)  | 300 Ah  |
|  | 3HR(1.75V)   | 234Ah   |
|  | 1HR(1.75V)   | 174Ah   |
| Dimension  | Length       | 171 ± 2mm (6.72inch)                                  |
|  | Width        | 151 ± 2mm (5.94inch)                                  |
|  | Height       | 330 ± 2mm (12.99inch)                                 |
|  | Total Height | 364 ± 2mm (14.33inch)                                 |
| Approx. Weight                                   |              | 18kg (39.7lbs) ± 4%                                   |
| Terminal type                                    |              | F12   |
| Internal resistance<br>(Fully charged, 25°C)     |              | Approx. 0.8m Ω  |
| Capacity<br>affected by<br>temperature<br>(10HR) | 40°C         | 102%  |
|  | 25°C         | 100%  |
|  | 0°C          | 85%   |
|  | -15°C        | 65%   |
| Self-discharge<br>(25°C)                         | 3 month      | Remaining Capacity: 91%                               |
|  | 6 month      | Remaining Capacity: 82%                               |
|  | 12 month     | Remaining Capacity: 65%                               |
| Nominal operating<br>temperature                 |              | 25°C ± 3°C (77°F ± 5°F)                               |
| Operating<br>temperature<br>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)                     |              | 2.25 to 2.30V<br>Temperature compensation:<br>-3mV/°C |
| Cyclic charging voltage(25°C)                    |              | 2.42 to 2.50V<br>Temperature compensation:<br>-5mV/°C |
| Maximum charging current                         |              | 60A   |
| Maximum discharge current                        |              | 2100A(5 sec.)   |
| Designed floating life(20°C)                     |              | 15~18 years   |

**Dimensions**

**Terminal**

**Terminal F12**
**Constant Current Discharge Characteristics (A, 25°C)**

| F.V/TIME | 15min | 30min | 60min | 2h  | 3h   | 4h   | 5h   | 6h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-----|------|------|------|------|------|------|------|
| 1.60V    | 417   | 273   | 188   | 111 | 79.6 | 63.6 | 54.8 | 47.1 | 37.2 | 30.7 | 16.2 |
| 1.65V    | 407   | 268   | 185   | 110 | 79.1 | 63.3 | 54.5 | 46.8 | 37.0 | 30.6 | 16.2 |
| 1.70V    | 392   | 259   | 180   | 109 | 78.5 | 62.8 | 54.1 | 46.5 | 36.7 | 30.5 | 16.1 |
| 1.75V    | 379   | 253   | 176   | 107 | 78.0 | 62.4 | 53.7 | 46.2 | 36.5 | 30.4 | 16.0 |
| 1.80V    | 359   | 244   | 171   | 105 | 75.7 | 60.5 | 52.1 | 44.8 | 35.4 | 30.2 | 15.9 |

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

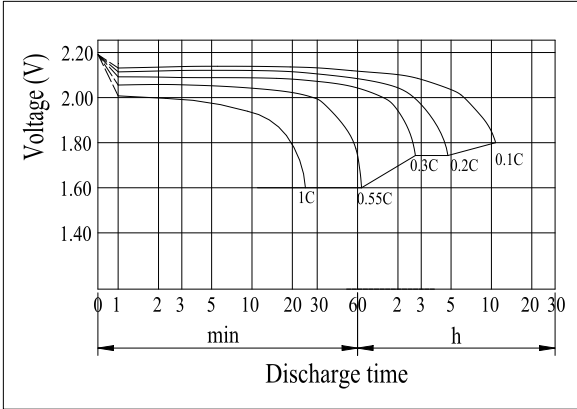
| F.V/TIME | 15min | 30min | 60min | 2h  | 3h  | 4h  | 5h  | 6h   | 8h   | 10h  | 20h  |
|----------|-------|-------|-------|-----|-----|-----|-----|------|------|------|------|
| 1.60V    | 763   | 511   | 356   | 213 | 156 | 125 | 108 | 92.8 | 74.0 | 61.1 | 32.4 |
| 1.65V    | 745   | 500   | 351   | 212 | 155 | 124 | 107 | 92.3 | 73.6 | 61.0 | 32.3 |
| 1.70V    | 717   | 485   | 342   | 210 | 154 | 123 | 107 | 91.7 | 73.0 | 60.8 | 32.2 |
| 1.75V    | 693   | 473   | 335   | 207 | 153 | 122 | 106 | 91.0 | 72.5 | 60.4 | 32.0 |
| 1.80V    | 656   | 456   | 325   | 202 | 148 | 119 | 103 | 88.3 | 70.4 | 60.0 | 31.8 |

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

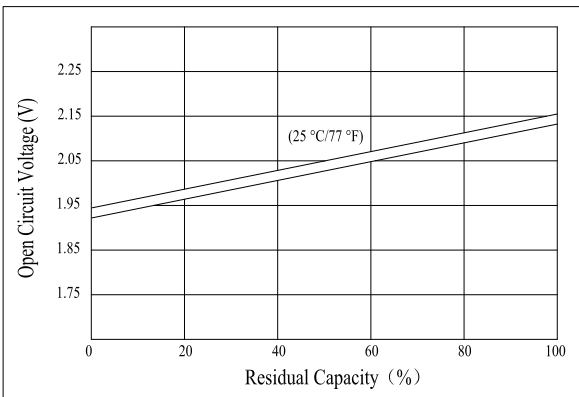
**Construction**

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

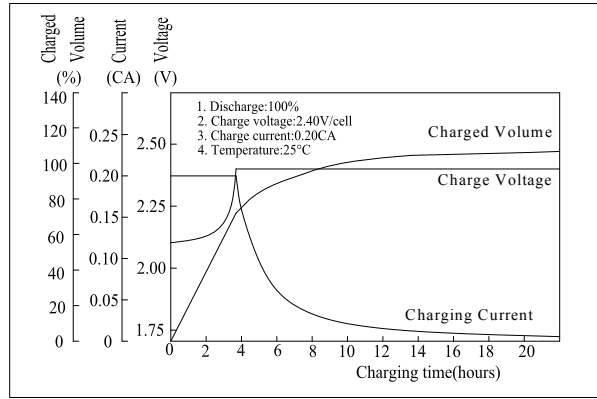
**Discharge Characteristics(25°C)**



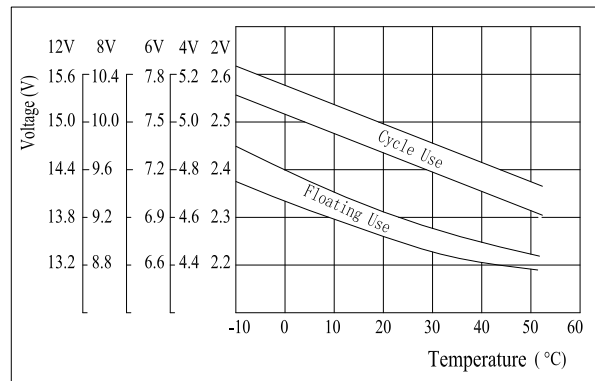
**The Relationship for Open Circuit Voltage and Residual Capacity (25°C)**



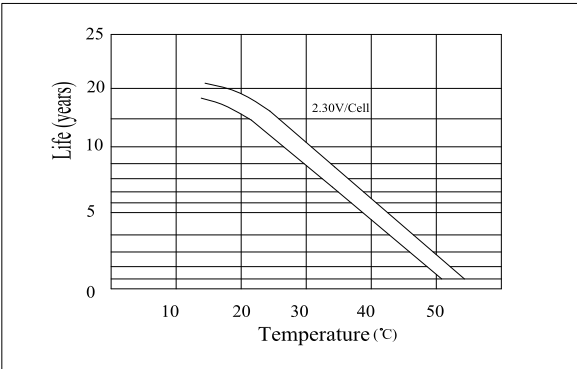
**Charging Characteristics(25°C)**



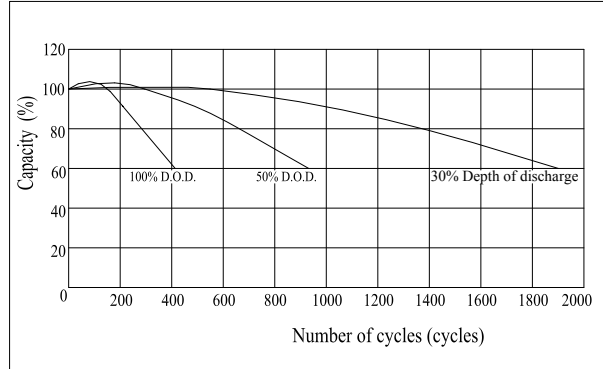
**The Relationship for Charging Voltage and Temperature**



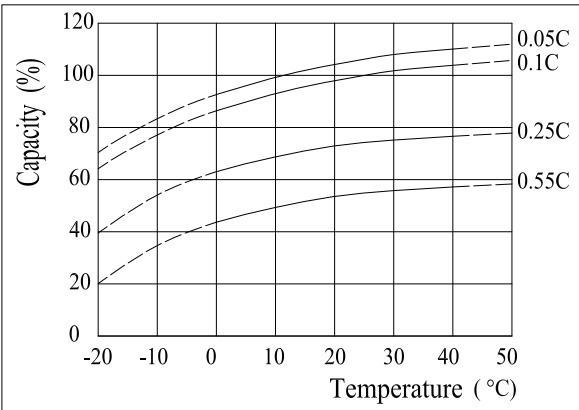
**Floating Life on Temperature**



**Cycle Life on D.O.D(25°C)**



**Effect of Temperature on Capacity**



**Self-discharge Characteristics**

