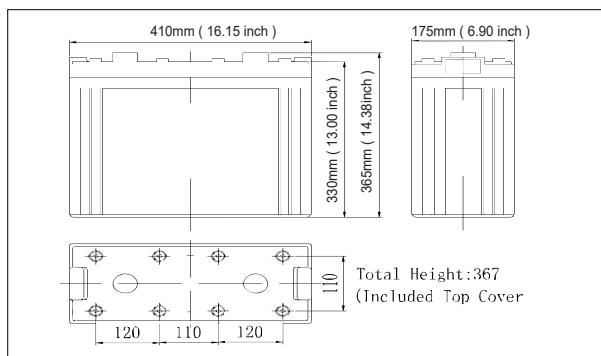
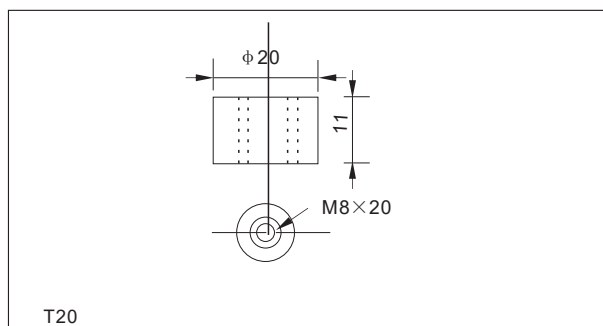




## Outer dimensions ( mm )



## Terminal Type ( mm )



## Construction

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

## Constant Power Discharge Characteristics Unit : W (25 °C, 77 °F)

| End   | 15mi | 30mi | 1h  | 3h  | 5h  | 10h | 24h  | 48h  | 120h |
|-------|------|------|-----|-----|-----|-----|------|------|------|
| 1.65V | 1892 | 1411 | 904 | 411 | 290 | --- | ---  | ---  | ---  |
| 1.70V | 1772 | 1331 | 869 | 399 | 283 | --- | ---  | ---  | ---  |
| 1.75V | 1647 | 1246 | 831 | 373 | 275 | 156 | ---  | ---  | ---  |
| 1.80V | 1517 | 1158 | 791 | 359 | 266 | 153 | ---  | ---  | ---  |
| 1.85V | 1377 | 1058 | 746 | 342 | 255 | 145 | 71.3 | 39.8 | 16.9 |

## Constant Current Discharge Characteristics Unit : A (25 °C, 77 °F)

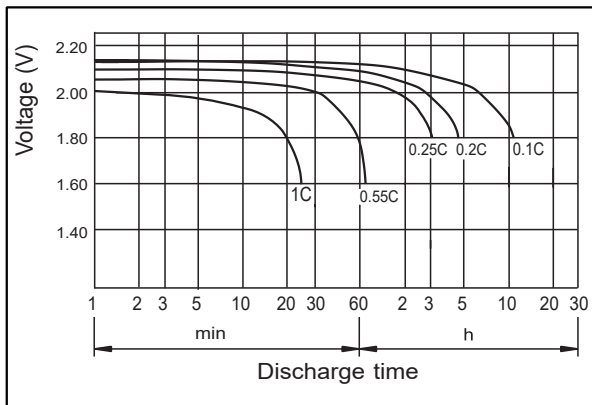
| End   | 15mi | 30mi | 1h  | 3h  | 5h  | 10h  | 24h  | 48h  | 120h |
|-------|------|------|-----|-----|-----|------|------|------|------|
| 1.65V | 970  | 724  | 454 | 219 | 143 | ---  | ---  | ---  | ---  |
| 1.70V | 905  | 689  | 435 | 213 | 139 | ---  | ---  | ---  | ---  |
| 1.75V | 835  | 652  | 415 | 207 | 135 | 82.0 | ---  | ---  | ---  |
| 1.80V | 762  | 613  | 393 | 200 | 131 | 80.0 | ---  | ---  | ---  |
| 1.85V | 682  | 568  | 367 | 191 | 125 | 77.0 | 35.8 | 20.0 | 8.5  |

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

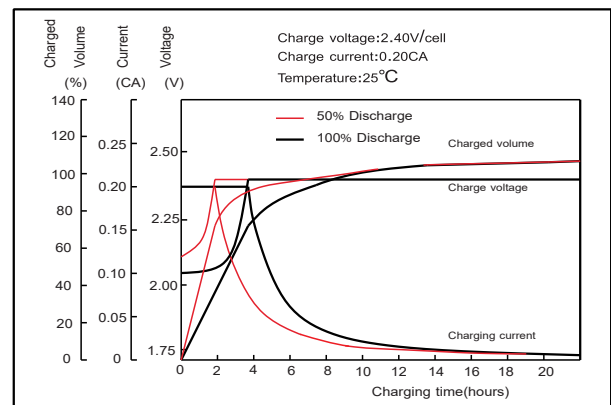
## Specifications

|                                           |              |                                                    |
|-------------------------------------------|--------------|----------------------------------------------------|
| Nominal Voltage                           |              | 2V                                                 |
| Rated capacity (10 hour rate)             |              | 810Ah                                              |
| Dimensions                                | Length       | 410mm ( 16.15 inch )                               |
|                                           | Width        | 175mm ( 6.90 inch )                                |
|                                           | Height       | 330mm ( 13.00 inch )                               |
|                                           | Total Height | 365mm ( 14.38inch )                                |
| Approx. Weight                            |              | 53kg                                               |
| Capacity (25°C)                           | 10HR(1.80V)  | 810Ah                                              |
|                                           | 3HR(1.80V)   | 600Ah                                              |
|                                           | 1HR(1.60V)   | 400Ah                                              |
| Terminal type                             |              | T20                                                |
| Internal resistance (Fully charged, 25°C) |              | Approx. 0.28mΩ                                     |
| Capacity affected by temperature (10HR)   | 40°C         | 102%                                               |
|                                           | 25°C         | 100%                                               |
|                                           | 0°C          | 85%                                                |
|                                           | -15°C        | 65%                                                |
| Self-discharge (25°C)                     | 3 months     | Remaining Capacity: 91%                            |
|                                           | 6 months     | Remaining Capacity: 82%                            |
|                                           | 12 months    | 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)             |              | 2.25 to 2.30V<br>Temperature compensation: -3mV/°C |
| Cyclic charging voltage (25°C)            |              | 2.40 to 2.45V<br>Temperature compensation: -5mV/°C |
| Maximum charging current                  |              | 240A                                               |
| Maximum discharge current                 |              | 8500A (5 sec.)                                     |
| Designed floating life (20°C)             |              | 20 years                                           |

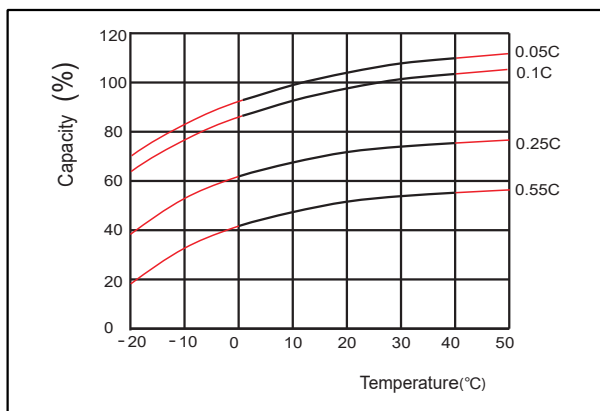
### ■ Discharge Characteristics(25°C)



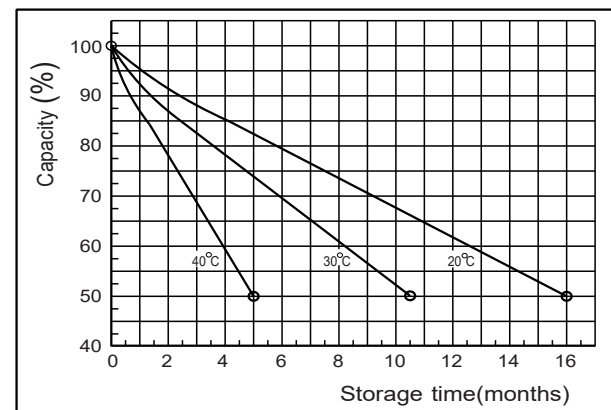
### ■ Charging Characteristics(25°C)



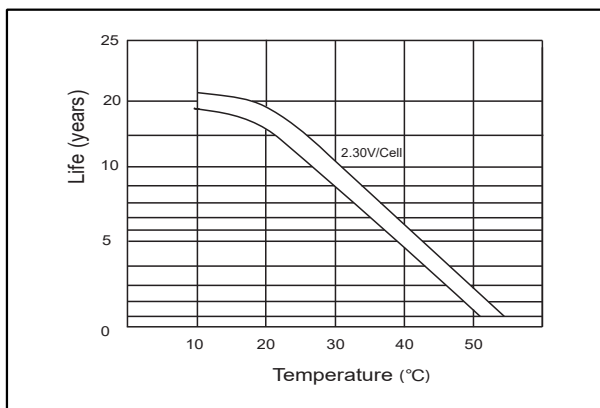
### ■ Temperature Effects On Capacity



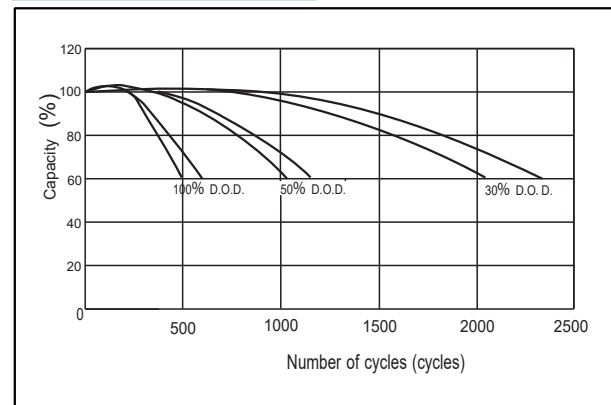
### ■ Self-Discharge Characteristics



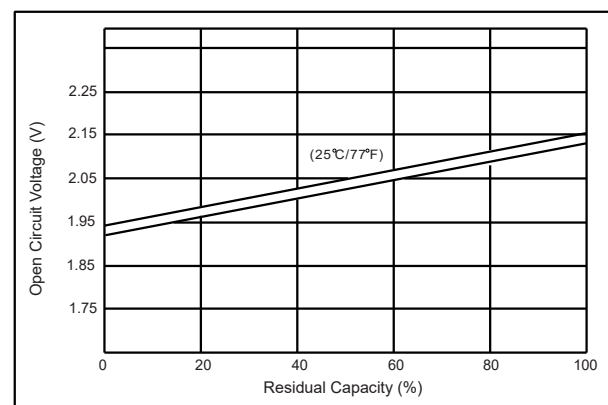
### ■ Floating Life On Temperature



### ■ Cycle Life On D.O.D(25°C)



### ■ The Relationship For OC And Capacity(25°C)



### ■ The Relationship For Charging Voltage and Temperature

