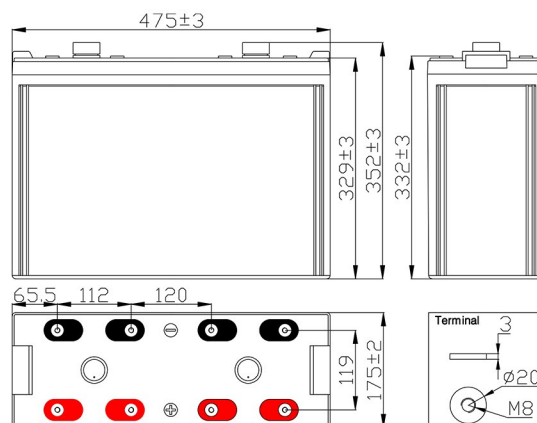


### Specification

|                             |                                                                                                                                                         |                                |
|-----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Nominal Voltage (V)         | 2V                                                                                                                                                      |                                |
| Rated Capacity              | 1030.0Ah                                                                                                                                                | (C <sub>10</sub> , 1.70V/cell) |
| Dimensions(mm)              | Length                                                                                                                                                  | 475 ± 3 mm                     |
|                             | Width                                                                                                                                                   | 175 ± 2 mm                     |
|                             | Height                                                                                                                                                  | 329 ± 3 mm                     |
|                             | Total Height                                                                                                                                            | 365 ± 3 mm                     |
| Nominal Capacity @25°C (Ah) | 20 Hour rate (55.60A to 1.70 volts)                                                                                                                     | 1112Ah                         |
|                             | 10 Hour rate (103.0A to 1.70 volts)                                                                                                                     | 1030Ah                         |
|                             | 5 Hour rate (178.2A to 1.70 volts)                                                                                                                      | 891.0Ah                        |
|                             | 1 Hour rate (605.0A to 1.70 volts)                                                                                                                      | 605.0Ah                        |
| Approx. Weight              | 56.5 kg                                                                                                                                                 |                                |
| Terminal                    | T14                                                                                                                                                     |                                |
| Max.Discharge Current       | 6500A @25°C (5s)                                                                                                                                        |                                |
| Internal Resistance         | 0.3mΩ @25°C (Full Charged Battery)                                                                                                                      |                                |
| Floating Design Life        | 15 years @25°C                                                                                                                                          |                                |
| Ambient Temperature         | Charge: -15°C~50°C                                                                                                                                      |                                |
|                             | Discharge: -20°C~60°C                                                                                                                                   |                                |
|                             | Storage: -20°C~50°C                                                                                                                                     |                                |
| Container Material          | A.B.S , UL94-HB , UL94-V0 , Optional                                                                                                                    |                                |
| Self Discharge              | VRLA batteries can be stored for more than 6 months at 25°C. Self-Discharge ratio less than 3% per month at 25°C. Please charge batteries before using. |                                |



### Certification



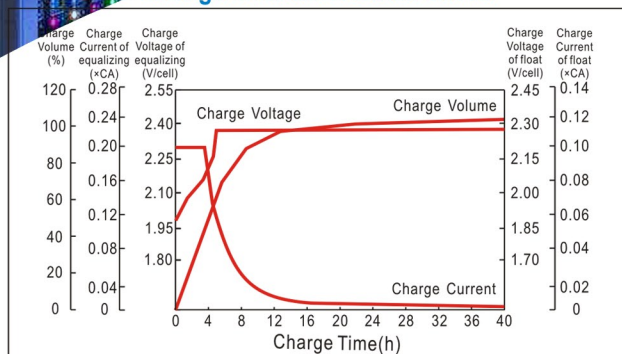
### Constant Current Discharge Characteristics (A), (25°C)

| F.V/TIME   | 15min  | 30min  | 60min | 2H    | 3H    | 5H    | 8H    | 10H   | 20H   |
|------------|--------|--------|-------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 1700.0 | 1005.0 | 625.0 | 388.5 | 268.8 | 180.3 | 124.2 | 105.0 | 57.60 |
| 1.70V/cell | 1550.0 | 915.0  | 605.0 | 383.5 | 265.5 | 178.2 | 122.2 | 103.0 | 55.60 |
| 1.75V/cell | 1420.0 | 835.0  | 580.0 | 378.5 | 262.5 | 175.5 | 121.0 | 102.0 | 54.60 |
| 1.80V/cell | 1270.0 | 765.0  | 550.0 | 373.3 | 257.5 | 172.9 | 119.2 | 101.0 | 53.60 |

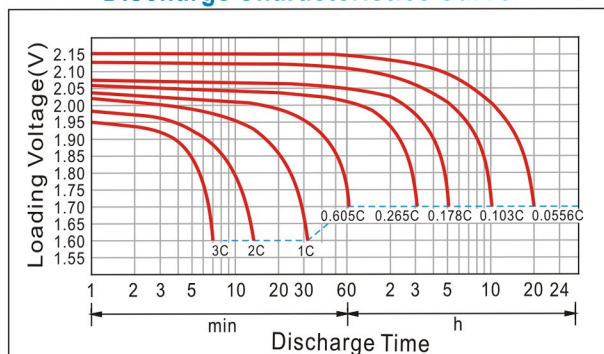
### Constant Wattage Discharge Characteristics (Watt), (25°C)

| F.V/TIME   | 15min  | 30min  | 60min  | 2H    | 3H    | 5H    | 8H    | 10H   | 20H   |
|------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 1.60V/cell | 3045.8 | 1842.5 | 1171.9 | 738.2 | 515.2 | 358.5 | 247.2 | 209.1 | 115.1 |
| 1.70V/cell | 2841.7 | 1715.6 | 1154.5 | 735.0 | 513.3 | 355.2 | 243.8 | 205.7 | 111.2 |
| 1.75V/cell | 2627.0 | 1579.5 | 1116.5 | 731.8 | 511.9 | 350.7 | 242.0 | 204.0 | 109.2 |
| 1.80V/cell | 2370.7 | 1459.9 | 1067.9 | 727.9 | 506.4 | 345.8 | 238.4 | 202.0 | 107.2 |

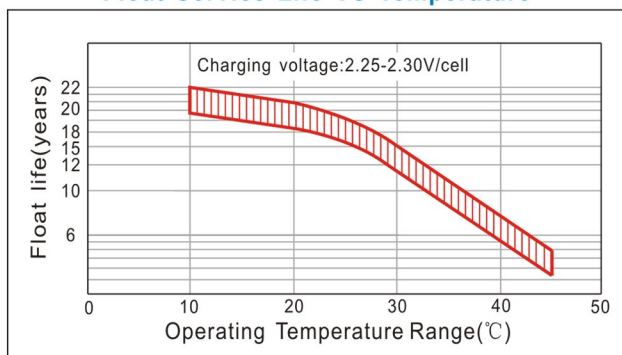
### Charge Characteristics Curve



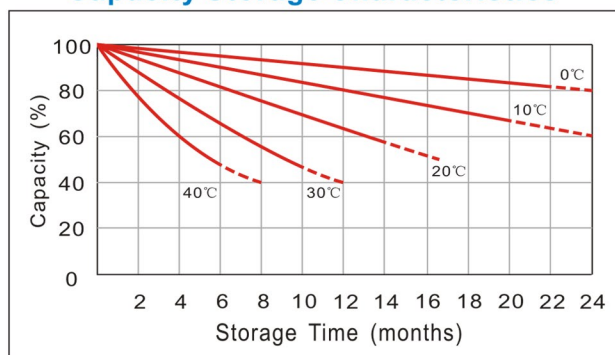
### Discharge Characteristics Curve



### Float Service Life VS Temperature



### Capacity Storage Characteristics



### Capacity Factors with Different Temperature

| Battery type |        | -20°C | -10°C | 0°C | 5°C | 10°C | 20°C | 25°C | 30°C | 40°C | 45°C |
|--------------|--------|-------|-------|-----|-----|------|------|------|------|------|------|
| GEL Battery  | 6V&12V | 50%   | 70%   | 83% | 85% | 90%  | 98%  | 100% | 102% | 104% | 105% |
|              | 2V     | 60%   | 75%   | 85% | 88% | 92%  | 99%  | 100% | 103% | 105% | 106% |
| AGM Battery  | 6V&12V | 46%   | 66%   | 76% | 83% | 90%  | 98%  | 100% | 103% | 107% | 109% |
|              | 2V     | 55%   | 70%   | 80% | 85% | 92%  | 99%  | 100% | 104% | 108% | 110% |

#### Charging Procedure:

| Application       | Charging method                                      | Charge voltage at 25°C | Temperature compensation coefficient of charging voltage | Max.charging current | Temperature |
|-------------------|------------------------------------------------------|------------------------|----------------------------------------------------------|----------------------|-------------|
| Floating charge   | Constant voltage charging (With current restriction) | 2.23~2.27 V/cell       | -3mV/°C/cell                                             | 0.2CA                | -20~50°C    |
| Equalizing charge |                                                      | 2.30~2.35 V/cell       | -4mV/°C/cell                                             | 0.3CA                |             |

Every month, recommend inspection every battery voltage.

Every three months, recommend equalization charge for one time. [Equalization charge method:](#)

Step 1: Discharge: 100% rate capacity discharge.

Step 2: Charge: Max. Current 0.3CA, constant voltage 2.30~2.35V/Cell charge 24h.

Length of service life will be directly affected by the number of discharge cycles, depth of discharge, Ambient temperature and charging voltage.

Charge the batteries at least once every six months, if they are stored at 25°C. [Charging Method:](#)

Constant Voltage :  $-0.2C \times 2h + 2.4 \sim 2.45V/cell \times 24h$  , Max. Current 0.25CA

Constant Current :  $-0.2C \times 2h + 0.1C \times 12h$

Fast :  $-0.2C \times 2h + 0.3C \times 4h$

Terminal of torque:

| Bolt     | M5     | M6                | M8              |
|----------|--------|-------------------|-----------------|
| Terminal | T3、T10 | T4、T7、T11、T12、T13 | T5、T6、T8、T9、T14 |
| Torque   | 6~7N·m | 8~10N·m           | 10~12N·m        |