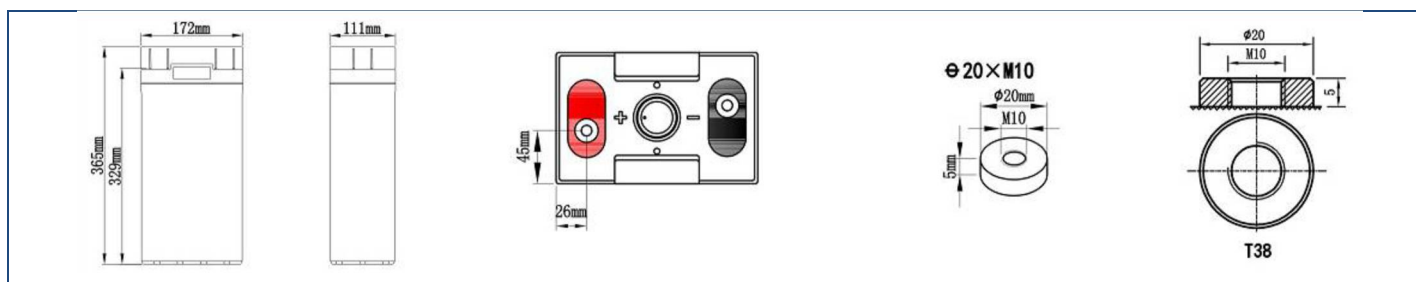



**DATASHEET**
**CL 2-200**
**2V 200AH**
**AGM SEALED VRLA BATTERY**
**LONG LIFE 15 YEARS OF EXPECTED LIFETIME**
**(EUROBAT)**
**SPECIFICATIONS**

| Nominal Voltage | Nominal Capacity | Dimension<br>±3mm |       |       |       | Weight<br>±2% | Max Discharge Current<br>(5s) | Internal Resistance | Standard Terminal | Container Material |
|-----------------|------------------|-------------------|-------|-------|-------|---------------|-------------------------------|---------------------|-------------------|--------------------|
|                 |                  | L                 | W     | H     | TH    |               |                               |                     |                   |                    |
| 2V              | 200AH            | 172mm             | 111mm | 329mm | 365mm | 13,1kg        | -                             | ≈0.81 mΩ            | M10               | ABS                |


**CONSTANT-VOLTAGE CHARGE**

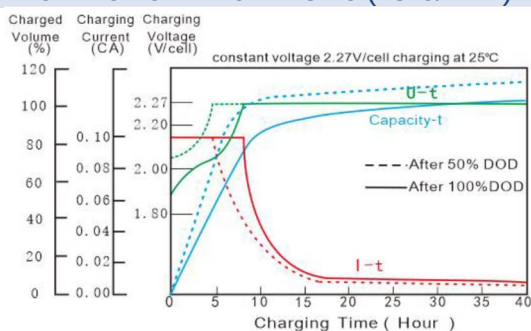
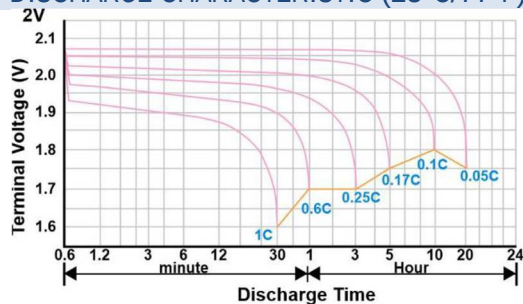
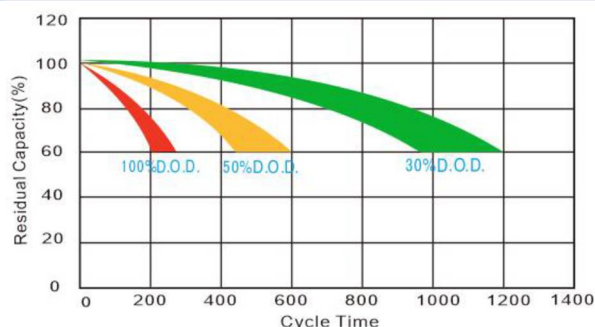
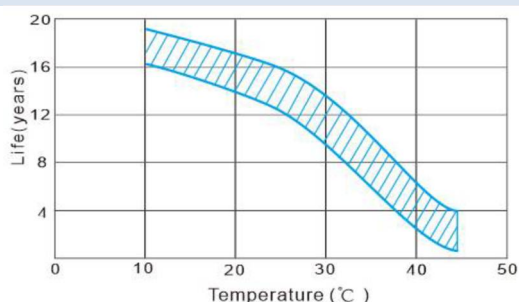
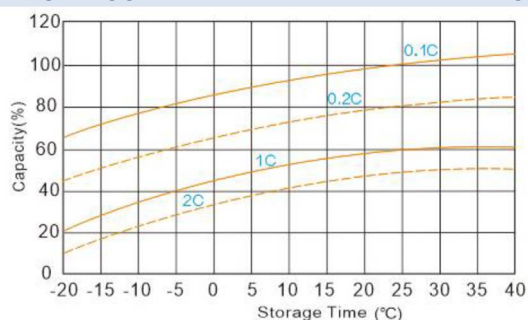
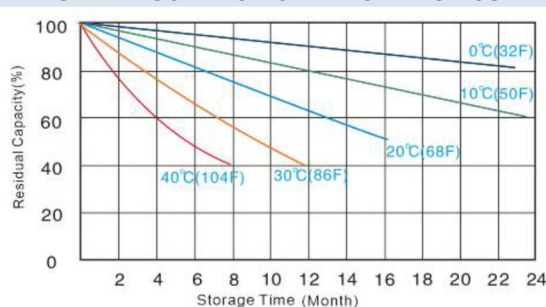
| Rated Capacity                   |         |
|----------------------------------|---------|
| 20 hour rate (10A)               | 212.0AH |
| 10 hour rate (20A)               | 202.0AH |
| 5 hour rate (34A)                | 177.0AH |
| 3 hour rate (50A)                | 157.5AH |
| 1 hour rate (120A)               | 125.0AH |
| Capacity affected by temperature |         |
| 40°C (104°F)                     | 103%    |
| 25°C (77°C)                      | 100%    |
| 0°C (32°F)                       | 86%     |

| Cycle Application                                                                                                                                                                                                              |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Limit initial current less than 40A.                                                                                                                                                                                        |
| 2. Charge until battery voltage (under charge) reaches 2.30V to 2.35V at 25°C(77°F).                                                                                                                                           |
| 3. Hold at 2.30V to 2.35V until current drop to under 1.2A for at least 3 hours.                                                                                                                                               |
| 4. Temperature compensation coefficient of charging voltage is -5mV/°C.                                                                                                                                                        |
| Standby Service                                                                                                                                                                                                                |
| 1. Hold battery across constant voltage source of 2.26 to 2.28 volts with current limit 40A continuously. When held at this voltage, the battery will seek its own current level and maintain itself in a fully charge status. |
| 2. Temperature compensation coefficient of charging voltage is -3mV/°C.                                                                                                                                                        |

| Nominal Operating Temp. Range |
|-------------------------------|
| 25±3°C (77±5°F)               |

| Operating Temperature                            |
|--------------------------------------------------|
| Wide operating temperature range from 0°C ~ 40°C |

NOTE : The battery should be charged within 6 months of storage, Otherwise, permanent loss of capacity might occur as a result of sulfation

**CHARGE CHARACTERISTIC (25°C/77°F)**

**DISCHARGE CHARACTERISTIC (25°C/77°F)**

**CYCLE LIFE IN RELATION TO DEPTH OF DISCHARGE**

**TEMPERATURE VS FLOAT LIFE**

**CAPACITY CURVE AT DIFFERENT TEMPERATURE**

**SELF DISCHARGE CHARACTERISTICS**

**Battery Discharge Table**

| End Voltage (V)                                                | Minute (M) |     |     |     | Hour (H) |     |     |      |      |      |      |      |
|----------------------------------------------------------------|------------|-----|-----|-----|----------|-----|-----|------|------|------|------|------|
|                                                                | 10         | 15  | 30  | 45  | 1        | 1.5 | 2   | 3    | 5    | 8    | 10   | 20   |
| <b>Constant Current Discharge Data Sheet (Amperes at 25°C)</b> |            |     |     |     |          |     |     |      |      |      |      |      |
| 1.60V                                                          | 420        | 384 | 246 | 172 | 125      | 101 | 85  | 55.6 | 38.0 | 27.5 | 21.0 | 10.9 |
| 1.65V                                                          | 400        | 366 | 234 | 166 | 121      | 99  | 83  | 54.5 | 37.2 | 26.9 | 20.8 | 10.8 |
| 1.70V                                                          | 382        | 347 | 222 | 160 | 119      | 96  | 81  | 52.5 | 36.2 | 26.5 | 20.6 | 10.7 |
| 1.75V                                                          | 364        | 331 | 212 | 156 | 115      | 94  | 79  | 51.5 | 35.4 | 25.9 | 20.4 | 10.6 |
| 1.80V                                                          | 345        | 315 | 202 | 149 | 113      | 92  | 77  | 50.5 | 34.5 | 25.5 | 20.2 | 10.5 |
| <b>Constant Power Discharge Data Sheet (Watt at 25°C)</b>      |            |     |     |     |          |     |     |      |      |      |      |      |
| 1.60V                                                          | 790        | 721 | 406 | 329 | 253      | 170 | 158 | 92   | 72   | 54.5 | 43.8 | 24.6 |
| 1.65V                                                          | 753        | 687 | 386 | 317 | 246      | 166 | 154 | 89   | 70   | 53.5 | 43.4 | 24.4 |
| 1.70V                                                          | 717        | 654 | 368 | 307 | 240      | 162 | 149 | 87   | 68   | 52.5 | 43.0 | 24.0 |
| 1.75V                                                          | 683        | 624 | 349 | 297 | 234      | 158 | 145 | 85   | 67   | 51.5 | 42.6 | 23.8 |
| 1.80V                                                          | 650        | 594 | 333 | 287 | 228      | 156 | 143 | 83   | 65   | 50.5 | 42.2 | 23.6 |