

OPzV2-800

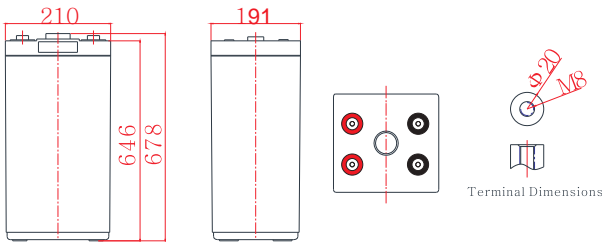


General Features

- > Tubular plate design to enhance battery performance
- > Tubular plate design makes long battery life
- > Relatively rich electrolyte, high temperature and low temperature performance is superior
- > Long cycle life, excellent deep cycle discharge ability
- > Excellent charge acceptance ability
- > Precision sealing technology



Dimension: 191(L)×210(W)×646(H)×678(TH) Unit: mm



Applications

- > Solar / wind energy and other new energy storage
- > Power systems
- > Telecommunications system
- > UPS/EPS
- > Auto control system
- > Other general purpose

Specification

| | | |
|------------------------|--|------------------------------|
| Nominal Voltage | 2V | |
| Nominal Capacity | 800Ah | |
| Design life | 20 years | |
| Terminal | M8 | |
| Approx. Weight | Approx 63kg (138.9lbs) | |
| Container Material | ABS | |
| Rated Capacity | 800Ah | 10Hour Rate (80.0A to 1.80V) |
| | 600Ah | 3Hour Rate (200A to 1.80V) |
| | 400Ah | 1Hour Rate (400A to 1.80V) |
| Internal resistance | Full charged at 25°C: 0.40 mΩ | |
| Max. Discharge Current | 4000A(5S) | |
| Operating Temperature | Discharge: -15~50°C(5~ 122°F) | |
| | Charge: -15~50°C(5~ 122°F) | |
| | Storage: -20 ~40°C(-4~ 104°F) | |
| Charge current: | Max. 160.0A ; Recom.80.0A | |
| Charge Method (25 °C) | Float Charge:2.23-2.25V,recom.2.25V(-3mV/ °C) | |
| | Equalize charge:2.30-2.40V,recom.2.35V(-4mV/ °C) | |
| | Cycle charge:2.35-2.45V,recom.2.40V(-5mV/ °C) | |
| Self discharge | 3% of capacity declined per month at 25°C | |

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

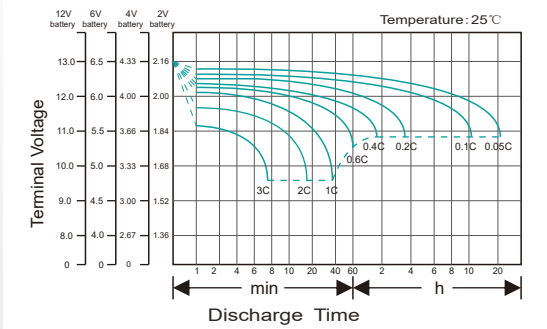
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|----------|-------|-------|-----|-----|-----|-----|-------|-------|-------|------|
| 1.60V | 832 | 653 | 475 | 297 | 214 | 170 | 144.5 | 127.1 | 102.6 | 84.0 |
| 1.65V | 784 | 622 | 447 | 289 | 210 | 166 | 143.0 | 125.5 | 101.8 | 83.6 |
| 1.70V | 741 | 594 | 440 | 281 | 206 | 166 | 141.0 | 123.6 | 100.6 | 83.2 |
| 1.75V | 693 | 562 | 412 | 273 | 202 | 162 | 138.6 | 121.2 | 98.6 | 82.0 |
| 1.80V | 645 | 527 | 400 | 265 | 200 | 158 | 136.0 | 118.0 | 96.2 | 80.0 |
| 1.85V | 594 | 479 | 368 | 249 | 190 | 154 | 131.1 | 114.0 | 93.5 | 78.4 |

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

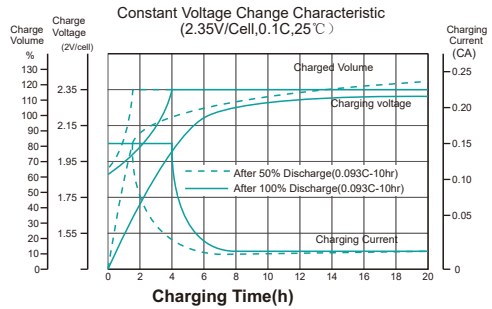
| F.V/Time | 15min | 30min | 1h | 2h | 3h | 4h | 5h | 6h | 8h | 10h |
|----------|-------|-------|-----|-----|-----|-------|-------|-------|-------|-------|
| 1.60V | 1434 | 1148 | 867 | 554 | 404 | 322.7 | 274.4 | 242.0 | 196.0 | 160.8 |
| 1.65V | 1370 | 1089 | 816 | 543 | 398 | 316.4 | 272.1 | 239.6 | 194.8 | 160.4 |
| 1.70V | 1295 | 1045 | 804 | 531 | 392 | 315.6 | 269.3 | 236.4 | 193.2 | 160.0 |
| 1.75V | 1224 | 1002 | 768 | 519 | 386 | 310.9 | 265.7 | 232.8 | 190.1 | 158.4 |
| 1.80V | 1156 | 962 | 737 | 507 | 380 | 304.5 | 260.6 | 227.3 | 185.7 | 154.0 |
| 1.85V | 1073 | 887 | 701 | 479 | 368 | 299.8 | 255.0 | 222.2 | 182.2 | 153.3 |

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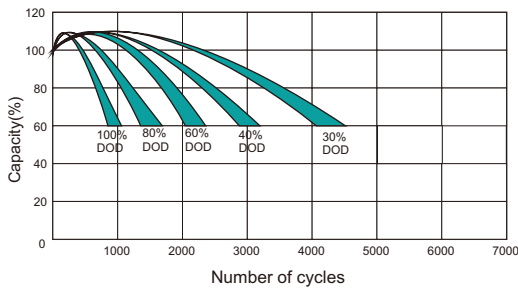
Discharge Characteristics Curve



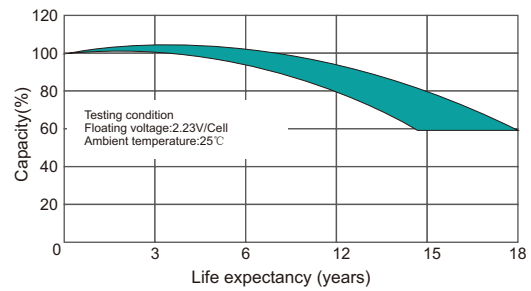
Charging Characteristics Curve



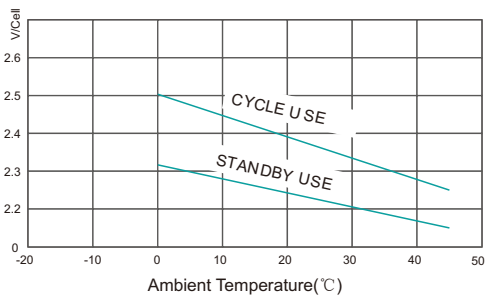
Cycle life of Different DOD



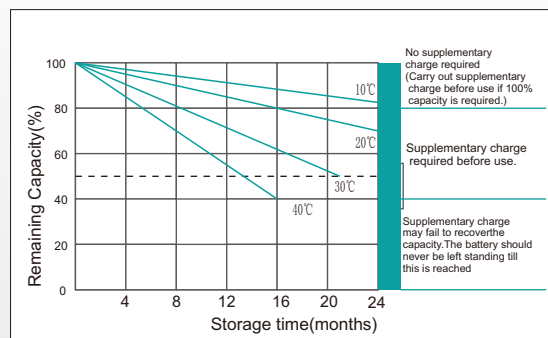
Float charging service life Curve



Charging voltage and temperature relationship



Self-discharge Characteristics



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