



CHARACTERISTICS



Free maintenance batteries.

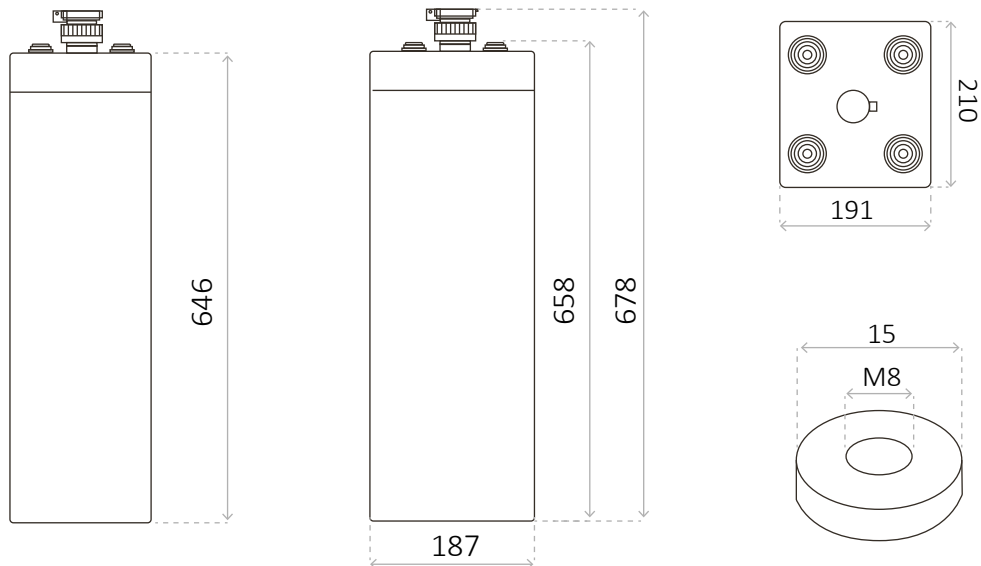


18+ years design life due to its tubular gel technology.



Perfect to use as accumulator in photovoltaic installations.

DIMENSIONS



2V GEL BATTERY

8 OPzV 800 2V 1110Ah C100

2V GEL SERIES BATTERY

OPzV range battery adopts traditional tubular gel technology, patent gel electrolyte. The products are used as standby power for communication, power, military and broadcast and television system.

They possess precise ABS heat seal technology between container and lid and patented post seal structure. Provide better deep cycle performance versus AGM. The design float life is 18+ years.



TECHNICAL SPECIFICATIONS

| | |
|------------------------------------|---|
| NOMINAL VOLTAGE (V) | 2 |
| NOMINAL CAPACITY (20°C) | 1110 Ah @ C120 (to 1.80 Vpc) |
| DIMMENSIONS | (LxWxH) 191x210x678 mm |
| APPROX. WEIGHT | 65 Kg |
| INTERNAL RESISTANCE | Approx. 0.29mOhm |
| SELF DISCHARGE | The residual capacity is above 94% after 90 days storage (25°C) |
| OPERATING TEMPERATURE RANGE | Maximum: -40~55°C Recommended: 15~25°C Storage: -20~40°C |
| FLOAT VOLTAGE | 2.23V/cell@25°C |
| CHARGE CURRENT | 80A (Recommendation) 200A (Maximum) |
| EQUALIZE AND CYCLE SERVICE | 2.35~2.40V/cell@25°C |
| CONTAINER MATERIAL | ABS |
| TERMINAL TYPE | Female Cooper M8 (Torque 15±1Nm) |

BATTERY DISCHARGE TABLE

DISCHARGE DATA WITH CONSTANT CURRENT UNITS: AMPERES (25°C)

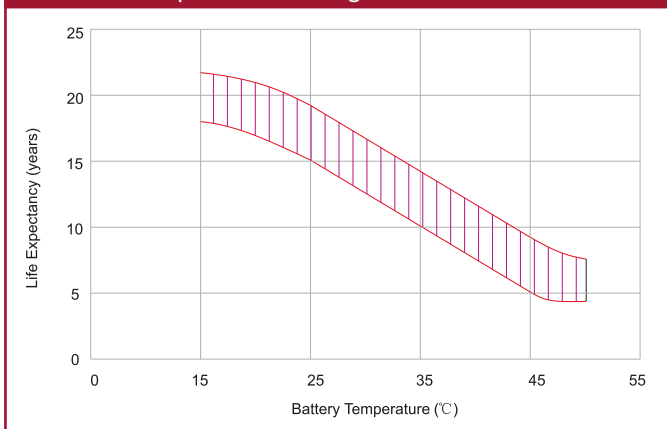
| TIME | 15 min | 30 min | 60 min | 2 hr | 3 hr | 4 hr | 5 hr | 6 hr | 8 hr | 10 hr | 16 hr | 24 hr | 48 hr | 100 hr |
|------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|-------|--------|
| 1.60 | 874.00 | 698.00 | 478.00 | 296.00 | 214.00 | 170.00 | 145.40 | 127.90 | 103.10 | 84.50 | 54.50 | 37.90 | 20.80 | 11.70 |
| 1.65 | 843.00 | 675.00 | 467.00 | 290.00 | 211.00 | 168.00 | 143.80 | 126.30 | 102.30 | 84.10 | 54.20 | 37.90 | 20.60 | 11.50 |
| 1.70 | 794.00 | 647.00 | 453.00 | 284.00 | 207.00 | 165.00 | 141.80 | 124.30 | 101.10 | 83.70 | 54.00 | 37.50 | 20.50 | 11.30 |
| 1.75 | 753.00 | 623.00 | 440.00 | 276.00 | 203.00 | 163.00 | 139.40 | 121.90 | 99.20 | 82.50 | 53.20 | 36.70 | 20.20 | 11.00 |
| 1.80 | 664.00 | 570.00 | 418.00 | 266.00 | 198.00 | 159.00 | 136.30 | 118.70 | 96.80 | 80.00 | 51.50 | 35.90 | 19.90 | 10.60 |
| 1.85 | 559.00 | 479.00 | 389.00 | 252.00 | 192.00 | 154.00 | 131.90 | 114.70 | 94.10 | 78.90 | 50.90 | 34.70 | 18.90 | 10.30 |
| 1.90 | 422.00 | 409.00 | 311.00 | 219.00 | 171.00 | 143.00 | 122.70 | 106.00 | 85.30 | 70.90 | 45.70 | 31.90 | 17.70 | 9.50 |

DISCHARGE DATA WITH CONSTANT CURRENT UNITS: WATTS PER CELL (25°C)

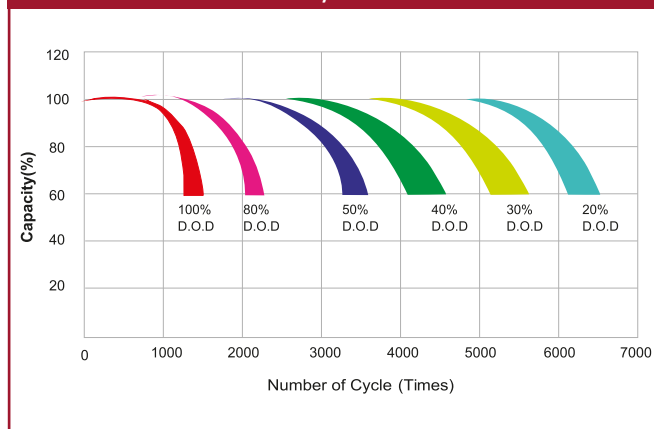
| TIME | 15 min | 30 min | 60 min | 2 hr | 3 hr | 4 hr | 5 hr | 6 hr | 8 hr | 10 hr | 16 hr | 24 hr |
|------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|-------|
| 1.60 | 1748.00 | 1384.00 | 1060.00 | 582.00 | 442.00 | 351.00 | 295.20 | 256.00 | 212.10 | 178.20 | 115.00 | 78.00 |
| 1.65 | 1664.00 | 1311.00 | 985.00 | 578.00 | 439.00 | 349.00 | 293.20 | 254.00 | 210.70 | 177.00 | 114.30 | 77.50 |
| 1.70 | 1588.00 | 1251.00 | 923.00 | 570.00 | 433.00 | 344.00 | 289.10 | 250.00 | 207.80 | 174.50 | 112.70 | 76.40 |
| 1.75 | 1503.00 | 1201.00 | 869.00 | 554.00 | 422.00 | 331.00 | 278.90 | 245.50 | 204.40 | 171.30 | 110.60 | 75.30 |
| 1.80 | 1406.00 | 1153.00 | 819.00 | 534.00 | 410.00 | 323.00 | 266.10 | 233.00 | 194.00 | 162.50 | 105.00 | 71.30 |
| 1.85 | 1316.00 | 1108.00 | 762.00 | 514.00 | 390.00 | 307.00 | 259.00 | 223.00 | 185.00 | 155.80 | 100.60 | 68.40 |
| 1.90 | 1230.00 | 1011.00 | 679.00 | 466.00 | 377.00 | 290.00 | 252.00 | 202.50 | 168.00 | 141.30 | 91.20 | 62.0 |

BATTERY CHARACTERISTICS

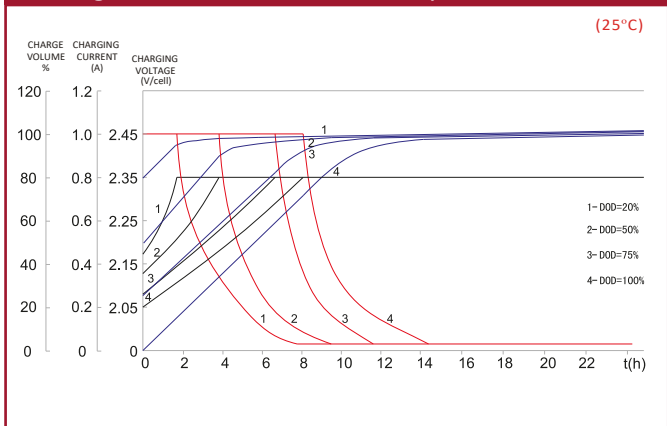
Effect of temperature on long term float life



Life characteristics of cyclic use



Charge characteristic curve for cyclic use



Discharge characteristic curve

