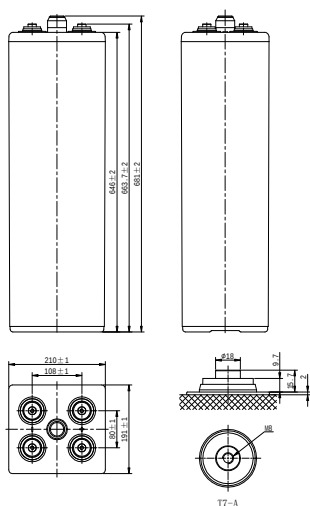


# OPzV SERIES-TUBULAR GEL

## 8OPzV800 (2V800Ah)



## CHARACTERISTICS

| Item                          | Specifications                 |                     |
|-------------------------------|--------------------------------|---------------------|
| Rated Voltage                 | 2V                             |                     |
| Nominal Capacity (25°C)       | C <sub>10</sub> , 1.80V/cell   | 800Ah               |
| Dimension                     | Length                         | 191mm (7.52inches)  |
|                               | Width                          | 210mm (8.27inches)  |
|                               | Container Height               | 646mm (25.4inches)  |
|                               | Total Height                   | 681mm (26.8inches)  |
| Approx Weight                 | 57.0kg (125.7lbs)              |                     |
| Terminal                      | T7-A(M8)                       |                     |
| Container Material            | ABS (UL94 HB or V-0 optional)  |                     |
| Short-circuit current         | 4800.0A                        |                     |
| Internal Resistance (25°C)    | Approx 0.55 mΩ (Fully charged) |                     |
| Operating Temp. Range         | Discharge                      | -20~55°C (-4~131°F) |
|                               | Charge                         | 0~40°C (32~104°F)   |
|                               | Storage                        | -20~50°C (-4~122°F) |
| Nominal Operating Temp. Range | 25±3°C (77±5°F)                |                     |
| Max.Charging Current (25°C)   | 0.25C                          |                     |
| Charge voltage (25°C)         | Standby Use                    | Cycle Use           |
|                               | 2.23-2.27V/cell                | 2.40-2.45V/cell     |
| Temp. Coefficient             | -3mV/cell/°C                   | -5mV/cell/°C        |
|                               | 40°C (104°F)                   | 106%                |
| Effect of temp. to Capacity   | 25°C (77°F)                    | 100%                |
|                               | 0°C (32°F)                     | 86%                 |
| Self Discharge                | ≤3% per month at 25°C (77°F)   |                     |

## DISCHARGE TABLE

| Constant Current Discharge (Amperes) at 25°C (77°F)  |       |       |       |       |       |       |      |      |      |      |      |
|------------------------------------------------------|-------|-------|-------|-------|-------|-------|------|------|------|------|------|
| F.V/Time                                             | 1h    | 2h    | 3h    | 5h    | 8h    | 10h   | 24h  | 48h  | 72h  | 100h | 120h |
| 1.85V/cell                                           | 332.4 | 224.8 | 178.1 | 121.9 | 85.4  | 75.0  | 34.5 | 18.0 | 13.0 | 9.80 | 8.40 |
| 1.80V/cell                                           | 372.7 | 246.2 | 193.8 | 131.3 | 91.4  | 80.0  | 35.7 | 18.7 | 13.4 | 10.0 | 8.70 |
| 1.75V/cell                                           | 387.5 | 254.8 | 198.1 | 133.9 | 92.9  | 81.4  | 35.9 | 19.2 | 13.7 | 10.2 | 8.80 |
| 1.70V/cell                                           | 404.5 | 261.2 | 202.1 | 135.9 | 94.2  | 82.3  | 36.5 | 19.6 | 13.9 | 10.4 | 9.00 |
| 1.67V/cell                                           | 415.0 | 265.5 | 205.9 | 138.1 | 95.3  | 83.0  | 36.8 | 19.7 | 14.0 | 10.5 | 9.10 |
| 1.60V/cell                                           | 421.4 | 269.8 | 208.3 | 139.4 | 96.0  | 83.7  | 37.1 | 20.0 | 14.1 | 10.7 | 9.20 |
| Constant Power Discharge (Watts/cell) at 25°C (77°F) |       |       |       |       |       |       |      |      |      |      |      |
| F.V/Time                                             | 1h    | 2h    | 3h    | 5h    | 8h    | 10h   | 24h  | 48h  | 72h  | 100h | 120h |
| 1.85V/cell                                           | 627.7 | 430.1 | 344.0 | 237.8 | 168.5 | 148.4 | 68.6 | 36.0 | 26.0 | 19.6 | 17.0 |
| 1.80V/cell                                           | 701.5 | 469.8 | 373.5 | 255.8 | 180.1 | 158.1 | 70.9 | 37.3 | 26.9 | 20.2 | 17.5 |
| 1.75V/cell                                           | 717.7 | 483.9 | 380.4 | 260.0 | 182.6 | 160.4 | 71.3 | 38.1 | 27.4 | 20.5 | 17.7 |
| 1.70V/cell                                           | 746.0 | 494.0 | 386.5 | 263.0 | 184.6 | 161.8 | 72.3 | 38.8 | 27.8 | 20.9 | 17.9 |
| 1.67V/cell                                           | 763.3 | 501.0 | 393.1 | 266.9 | 186.4 | 163.1 | 72.8 | 39.2 | 27.9 | 21.0 | 18.1 |
| 1.60V/cell                                           | 765.0 | 506.1 | 395.8 | 268.3 | 187.1 | 163.9 | 73.2 | 39.5 | 28.1 | 21.4 | 18.3 |

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## APPLICATIONS

- Float charging applications: communication center, telecom basestation, UPS, power station, electric substation
- Solar and wind energy storage system
- Off-grid and bad-grid hybrid sites

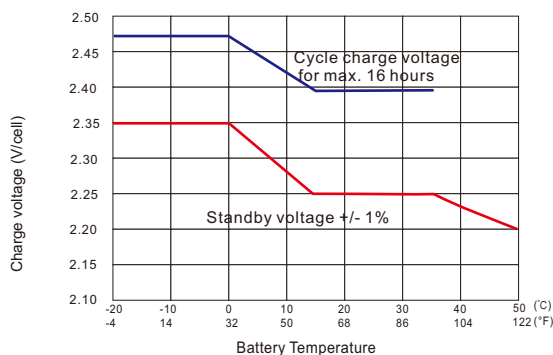
## GENERAL FEATURES

- 20 year design life (20°C)
- Strong Lead-calcium alloy tubular plate technology - for longer life in the toughest conditions
- Gelled electrolyte for superior thermal management, long float life
- Proof against deep discharge - greater long-term energy delivery
- Exceptional cycling performance - 2500+ cycles at 60% Depth of Discharge

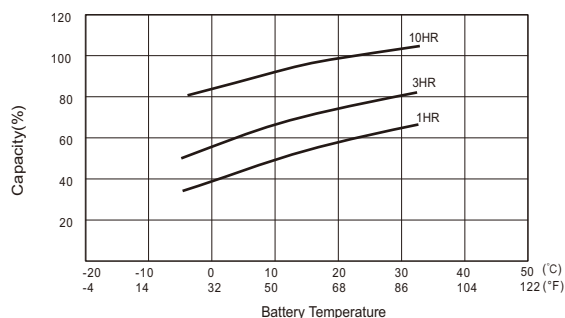
## STANDARDS

- Compliance with IEC 60896, IEC 61427, DIN 40742 standards
- UL, CE Approved
- Manufactured in Leoch® IATF 16949, ISO 45001, ISO 9001 and ISO 14001 certified production facilities

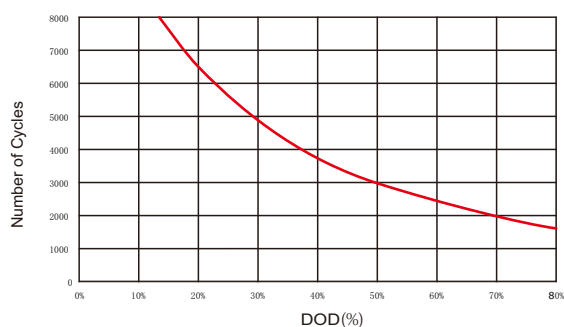
### Charge Voltage vs Ambient Temperature Curve



### Temperature Effects in Relation to Capacity



### Cycle life



### Self Discharge Characteristics

