

12OPzS1200

(2V 1380Ah @ 10hr)

Eternity Technologies vented lead-acid batteries for the standby power market. Eternity Technologies OPzS batteries have optimised design resulting in a low maintenance, reliable energy storage solution for critical and unstable conditions.

Performance characteristics

| | |
|--|----------------------|
| Nominal Voltage | 2V |
| Number of cells | 1 |
| Design Life | 20 years |
| Nominal Capacity 20°C (68°F) | |
| 10 hour rate (138A, 1.8V) | 1380Ah |
| 5 hour rate (235A, 1.75V) | 1173.5Ah |
| 1 hour rate (787A, 1.6V) | 787Ah |
| Internal Resistance | |
| Fully Charged Battery 20°C (68°F) | 0.23mOhm |
| Electrolyte | |
| Nominal S.G at 20°C = 1.240kg/l | |
| Operating Temperature Range | |
| | -20°C to +55°C |
| Maximum Discharge Current 20°C (68°F) | |
| | 1466A |
| Charge Methods: Constant Voltage Charge 20°C (68°F) | |
| Cycle use | 2.40V (time limited) |
| Maximum charging current | 552A |
| Standby use | 2.25V ± 1% |
| Temperature compensation | -3.0mV/°C/Cell |
| Terminal torque | 23Nm |

Discharge Constant Current (Amperes at 20°C)

| Cells (V) | 10 m | 15 m | 30 m | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|-----------|--------|--------|--------|-------|-------|-------|-------|-------|-------|
| 1.60 | 1364.9 | 1309.5 | 1072.8 | 786.7 | 511.7 | 362.6 | 241.8 | 175.3 | 145.1 |
| 1.65 | 1228.9 | 1168.5 | 978.1 | 738.4 | 493.6 | 360.6 | 241.8 | 175.3 | 145.1 |
| 1.70 | 1087.9 | 1027.4 | 879.4 | 682.9 | 472.4 | 351.5 | 238.7 | 171.2 | 143.0 |
| 1.75 | 938.8 | 887.4 | 772.6 | 621.5 | 446.2 | 338.5 | 243.7 | 168.2 | 142.0 |
| 1.80 | 786.7 | 746.4 | 659.8 | 551.0 | 410.0 | 317.3 | 226.6 | 163.2 | 138.0 |
| 1.83 | 691.0 | 659.8 | 587.3 | 497.6 | 378.7 | 297.2 | 216.6 | 158.1 | 135.0 |
| 1.85 | 627.5 | 601.4 | 537.9 | 462.4 | 358.6 | 284.1 | 209.5 | 154.1 | 133.0 |
| 1.87 | 562.1 | 541.9 | 485.5 | 419.0 | 330.4 | 265.9 | 199.4 | 148.1 | 125.9 |
| 1.90 | 462.4 | 452.3 | 406.9 | 354.6 | 287.1 | 237.7 | 185.3 | 138.0 | 116.8 |

Discharge Constant Power (Watts at 20°C)

| Cells (V) | 10 m | 15 m | 30 m | 1 h | 2 h | 3 h | 5 h | 8 h | 10 h |
|-----------|--------|--------|--------|--------|-------|-------|-------|-------|-------|
| 1.60 | 2241.2 | 2165.7 | 1828.2 | 1390.1 | 937.8 | 675.9 | 458.3 | 336.4 | 280.0 |
| 1.65 | 2065.0 | 1979.3 | 1692.3 | 1314.5 | 910.6 | 673.9 | 458.3 | 336.4 | 280.0 |
| 1.70 | 1873.6 | 1782.9 | 1551.2 | 1233.9 | 875.3 | 660.8 | 454.3 | 329.4 | 278.0 |
| 1.75 | 1662.0 | 1576.4 | 1390.1 | 1138.2 | 832.0 | 637.6 | 449.3 | 325.4 | 276.0 |
| 1.80 | 1425.3 | 1359.9 | 1208.8 | 1022.4 | 770.6 | 601.4 | 435.2 | 316.3 | 267.9 |
| 1.83 | 1274.2 | 1218.8 | 1087.9 | 931.8 | 717.2 | 567.1 | 418.0 | 307.2 | 262.9 |
| 1.85 | 1168.5 | 1123.1 | 1007.3 | 872.3 | 681.9 | 543.9 | 406.9 | 302.2 | 259.9 |
| 1.87 | 1052.6 | 1017.4 | 916.6 | 795.8 | 631.6 | 511.7 | 388.8 | 290.1 | 248.8 |
| 1.90 | 880.4 | 863.3 | 779.6 | 682.9 | 555.0 | 461.3 | 362.6 | 272.0 | 231.7 |



N Part of our Network Power range

Features

- High energy density

- Robust tubular positive electrode design, compliant with DIN 40736

- Minimal maintenance due to low antimony alloy and large electrolyte volume

- Operating temperature -20°C to +55°C

- EUROBAT design life: Long Life > 12 years

- Fully recyclable with low CO₂ footprint

Applications

- Telecommunications/ Mobile Phone Stations

- Traffic Systems

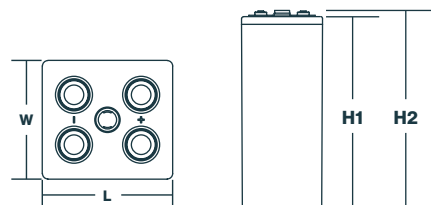
- UPS Systems

- Emergency Lighting

- Electrical Switching

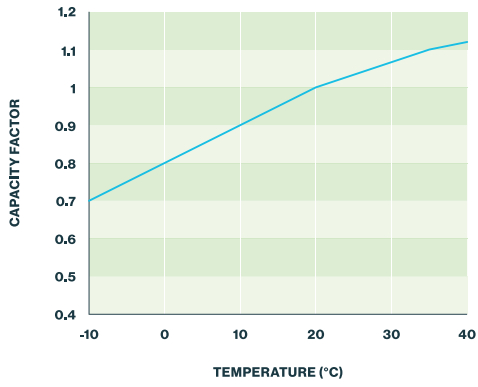
Dimensions and weight

| | |
|-------------------|---------|
| Length | 212 mm |
| Width | 277 mm |
| Height (H1) | 658 mm |
| Total height (H2) | 683 mm |
| Dry weight | 63.8 kg |
| Filled weight | 86.7 kg |

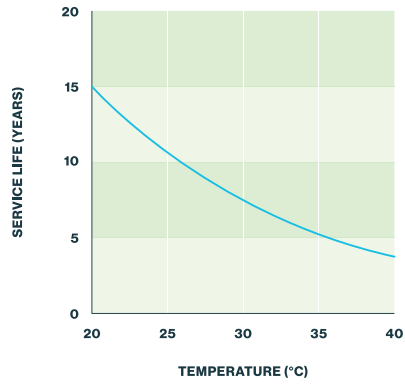


Compliant with IEC60896-11

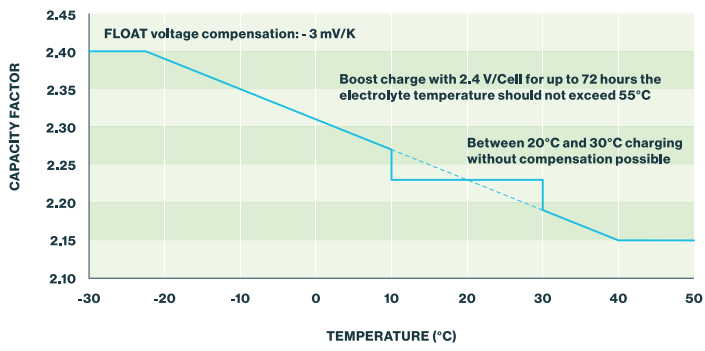
Capacity factor vs. Temperature - discharge current I_{10}



Service life vs. Temperature



Charging voltage vs. Temperature



Self discharge

