

12OPzS1500

(2V 1650Ah @ 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 (165A, 1.8V) | 1650Ah |
| 5 hour rate (292A, 1.75V) | 1460Ah |
| 1 hour rate (906A, 1.6V) | 906Ah |
| 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) | |
| | 1470A |
| Charge Methods: Constant Voltage Charge 20°C (68°F) | |
| Cycle use | 2.40V (time limited) |
| Maximum charging current | 660A |
| 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 | 1426.8 | 1354.0 | 1155.0 | 905.6 | 623.1 | 462.0 | 327.1 | 217.4 | 178.6 |
| 1.65 | 1261.8 | 1203.5 | 1038.5 | 827.9 | 594.0 | 448.4 | 320.3 | 216.4 | 178.6 |
| 1.70 | 1091.9 | 1053.1 | 922.1 | 745.4 | 556.1 | 429.0 | 308.6 | 212.6 | 176.6 |
| 1.75 | 924.0 | 895.9 | 799.8 | 656.1 | 508.6 | 400.9 | 292.1 | 205.8 | 172.8 |
| 1.80 | 754.1 | 733.8 | 669.7 | 561.0 | 448.4 | 363.0 | 268.9 | 195.1 | 165.0 |
| 1.83 | 648.4 | 632.8 | 584.3 | 497.9 | 405.7 | 332.9 | 250.4 | 185.4 | 157.2 |
| 1.85 | 578.5 | 565.9 | 528.0 | 455.2 | 376.6 | 313.5 | 238.8 | 178.6 | 151.4 |
| 1.87 | 505.7 | 496.0 | 464.9 | 406.7 | 341.6 | 288.3 | 223.2 | 167.9 | 143.6 |
| 1.90 | 396.0 | 390.2 | 370.8 | 332.9 | 288.3 | 249.4 | 200.9 | 151.4 | 132.0 |

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 | 2319.7 | 2222.6 | 1946.0 | 1543.2 | 1087.1 | 828.9 | 600.8 | 407.6 | 339.7 |
| 1.65 | 2106.2 | 2023.7 | 1781.0 | 1431.6 | 1048.2 | 807.5 | 592.1 | 406.7 | 339.7 |
| 1.70 | 1873.2 | 1810.1 | 1611.2 | 1310.3 | 994.9 | 779.4 | 572.6 | 401.8 | 337.8 |
| 1.75 | 1625.7 | 1582.1 | 1426.8 | 1174.4 | 923.0 | 738.6 | 548.4 | 391.1 | 331.0 |
| 1.80 | 1358.8 | 1329.7 | 1222.9 | 1028.8 | 828.9 | 678.4 | 509.6 | 373.7 | 318.4 |
| 1.83 | 1184.1 | 1159.9 | 1077.4 | 921.1 | 755.1 | 628.0 | 476.6 | 357.2 | 304.8 |
| 1.85 | 1072.5 | 1048.2 | 980.3 | 849.3 | 706.6 | 594.0 | 457.1 | 345.5 | 295.1 |
| 1.87 | 945.4 | 927.9 | 813.4 | 764.8 | 645.4 | 549.4 | 430.0 | 326.1 | 281.5 |
| 1.90 | 752.2 | 741.5 | 706.6 | 635.7 | 553.2 | 481.4 | 391.1 | 297.0 | 260.1 |



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

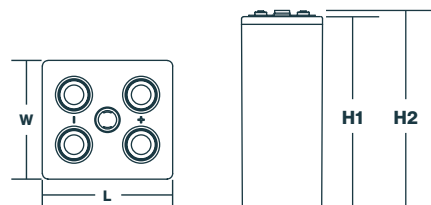
- UPS Systems

- Emergency Lighting

- Electrical Switching

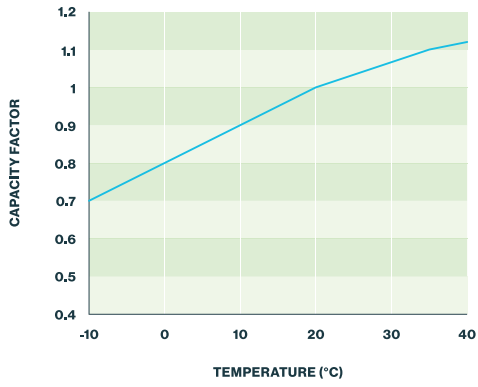
Dimensions and weight

| | |
|-------------------|----------|
| Length | 212 mm |
| Width | 277 mm |
| Height (H1) | 809 mm |
| Total height (H2) | 834 mm |
| Dry weight | 77.1 kg |
| Filled weight | 105.6 kg |

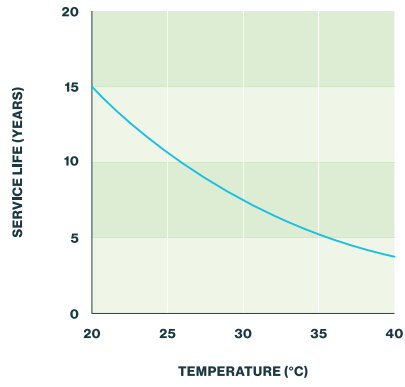


Compliant with IEC60896-11

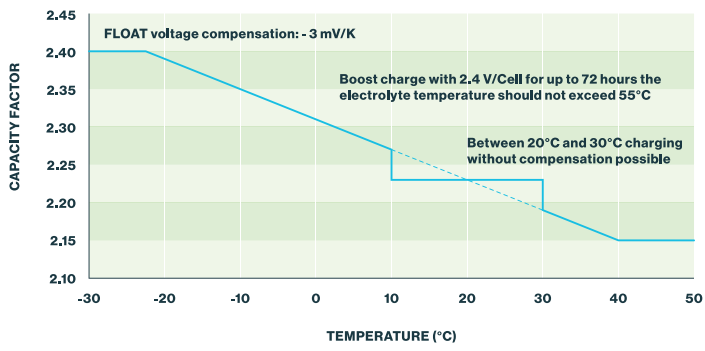
Capacity factor vs. Temperature - discharge current I_{10}



Service life vs. Temperature



Charging voltage vs. Temperature



Self discharge

