

5 OPzS-ET 250

(2V 280Ah @ 10hr)



Performance characteristics

| | |
|-----------------|----------|
| Nominal Voltage | 2V |
| Number of cells | 1 |
| Design Life | 20 years |

Nominal Capacity 20°C (68°F)

| | |
|--------------------------|-------|
| 10 hour rate (28A, 1.8V) | 280Ah |
| 5 hour rate (51A, 1.75V) | 255Ah |
| 1 hour rate (156A, 1.6V) | 156Ah |

Internal Resistance

| | |
|-----------------------------------|----------|
| Fully Charged Battery 20°C (68°F) | 0.74mOhm |
|-----------------------------------|----------|

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)

459A

Charge Methods: Constant Voltage Charge 20°C (68°F)

| | |
|--------------------------|----------------------|
| Cycle use | 2.40V (time limited) |
| Maximum charging current | 112A |
| Standby use | 2.25V ± 1% |
| Temperature compensation | -3.5mV/°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 | 398.3 | 343.4 | 245.1 | 156.4 | 101.1 | 77.6 | 52.0 | 35.0 | 29.2 |
| 1.65 | 367.7 | 320.2 | 234.6 | 153.2 | 100.0 | 76.9 | 52.2 | 35.0 | 29.2 |
| 1.70 | 330.7 | 293.7 | 221.9 | 149.0 | 98.3 | 75.9 | 51.7 | 35.0 | 29.2 |
| 1.75 | 289.5 | 263.1 | 203.9 | 141.6 | 95.9 | 74.0 | 50.8 | 34.8 | 28.8 |
| 1.80 | 243.0 | 222.9 | 179.6 | 131.0 | 91.2 | 70.7 | 48.9 | 33.4 | 28.0 |
| 1.83 | 212.4 | 195.5 | 162.7 | 122.6 | 86.5 | 67.3 | 46.8 | 32.5 | 27.4 |
| 1.85 | 191.2 | 177.5 | 151.1 | 116.2 | 83.5 | 65.0 | 45.3 | 32.0 | 26.9 |
| 1.87 | 170.1 | 159.5 | 137.4 | 108.8 | 78.7 | 61.5 | 43.4 | 30.9 | 25.7 |
| 1.90 | 138.4 | 132.1 | 118.3 | 96.9 | 71.6 | 56.3 | 40.5 | 29.3 | 23.9 |

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 | 653.0 | 569.5 | 417.4 | 276.8 | 184.9 | 144.8 | 99.1 | 67.4 | 56.3 |
| 1.65 | 617.1 | 543.1 | 405.7 | 273.7 | 183.8 | 143.7 | 99.1 | 67.4 | 56.3 |
| 1.70 | 570.6 | 510.3 | 390.9 | 268.4 | 181.7 | 142.6 | 98.4 | 67.4 | 56.3 |
| 1.75 | 512.5 | 467.0 | 366.6 | 258.9 | 179.6 | 139.5 | 97.3 | 67.1 | 56.0 |
| 1.80 | 441.7 | 405.7 | 328.6 | 242.0 | 171.2 | 134.2 | 94.1 | 64.7 | 54.5 |
| 1.83 | 389.9 | 361.4 | 301.1 | 229.3 | 163.8 | 127.8 | 90.4 | 63.4 | 53.5 |
| 1.85 | 356.1 | 330.7 | 283.2 | 219.8 | 158.5 | 124.7 | 88.0 | 62.4 | 52.7 |
| 1.87 | 319.1 | 300.1 | 259.9 | 206.0 | 151.1 | 118.3 | 84.5 | 60.5 | 50.5 |
| 1.90 | 263.1 | 252.5 | 226.1 | 186.0 | 138.4 | 109.9 | 79.4 | 57.7 | 47.2 |

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

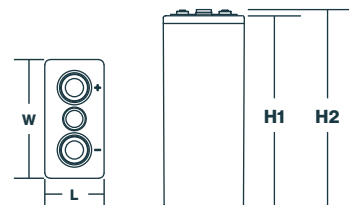
UPS Systems

Emergency Lighting

Electrical Switching

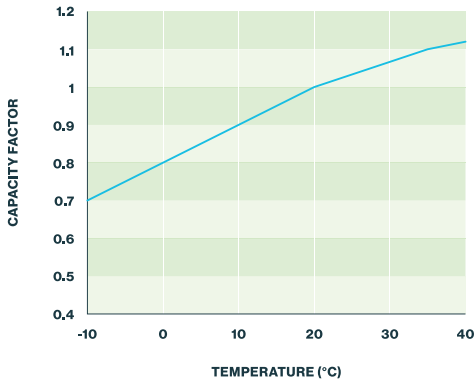
Dimensions and weight

| | |
|-------------------|---------|
| Length | 124 mm |
| Width | 206 mm |
| Height (H1) | 355 mm |
| Total height (H2) | 368 mm |
| Dry weight | 15.5 kg |
| Filled weight | 21.3 kg |

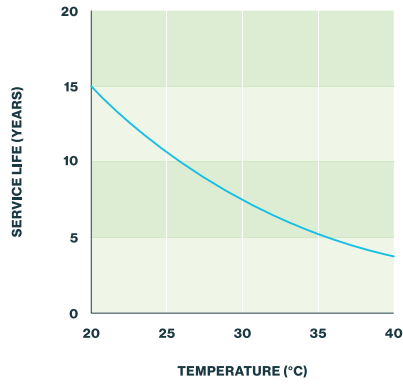


Compliant with IEC60896-11

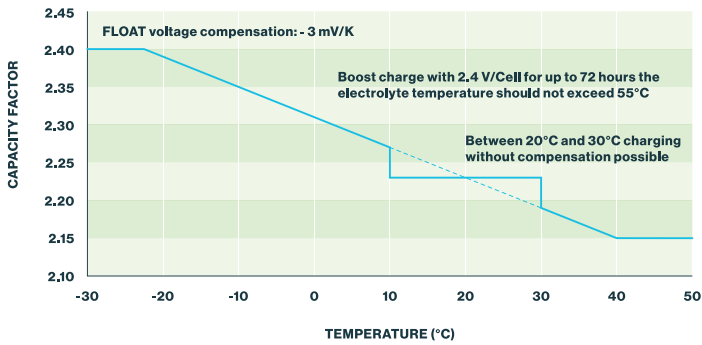
Capacity factor vs. Temperature - discharge current I_{10}



Service life vs. Temperature



Charging voltage vs. Temperature



Self discharge

