EverExceed®
power your applications

# Tubular OPzS Range

## GERMANY TECHNOLOGY
## 6 OPzS 600
### (2V-680AH @ C10)

## Specifications

- 20 years design life @ 25°C(77°F).
- The active material is manufactured from best purity lead (99.994%) to minimize the negative effects of impurities.
- Very high operationally reliability under rough operating conditions.
- Low maintenance due to adopt latest low antimony technology.
- in the alloy and high electrolyte reserve.
- Nominal capacity 50–3500 Ah C10, tailor solution model up to 15000AH available on request.
- Also designed for cyclic applications.
- available in dry charged condition with separate electrolyte.
- Low gassing due to PbSb1.6SnSe alloy (EN 50272-2).
- High antimony alloy also available on request.
- Conforms to DIN 40736 and DIN 40737 T3.
- Electrolyte: diluted sulphuric acid ρ = 1.24~1.25 kg/l.

## Applications

- Telecommunications
- Emergency lighting
- Photovoltaics
- Power generation plants
- Microwave radio systems

**PROVEN HIGH RELIABILITY ENERGY STORAGE FOR CRITICAL APPLICATION**

# HIGH PERFORMANCE

## Innovative Features

- **Tubular positive plates:** EverExceed™ robust tubular plates consisting of a lead antimony alloy, optimized for high corrosion resistances.
- **Pasted negative plates:** EverExceed™ grid plate construction consisting of low antimony with long-life expander material.
- **Separators:** Microporous and robust, for electrical separation of the positive and negative plates and optimized for low internal resistance.
- **Container:** High impact, transparent SAN (Styrol-Acryl-Nitril).
- **Safety Vents:** Cells incorporate flame retardant ceramic plugs that filter out any drops of electrolyte from the escaping gases preventing any errant spark or flame from entering the battery.
- **Poles:** Screw connection for easy and safe assembly and maintenance-free connection with excellent conductivity.
- **Post seals:** Extremely high integrity post seal design to prevent electrolyte leakage and terminal corrosion.
- **Connectors:** Flexible, fully insulated cable connectors screwed to the terminal with an insulated screw having a probe hole on the top for electrical measurement.
- Proprietary Fixed Orifice Plate Pasting technology applying active materials on both sides of the grid for consistent cell-to-cell performance, higher capacity and uniform grid protection.

## Standard and Compliance

- DIN 40736 part 1
- DIN 40737 part 2
- IEC 60896-1
- UL1989

Intertek UL 1989


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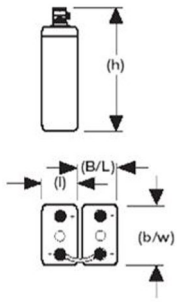
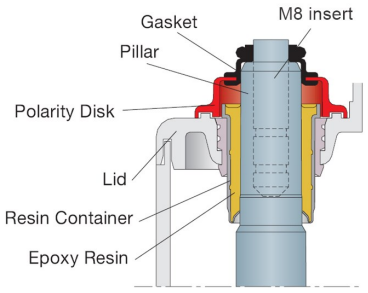
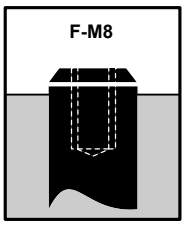



Dimension figure




High Reliability Post Seal




11 Nm

**Container:** SAN (acrylonitrile polystyrene), UL 94 V-0 standard

## Tubular OPzS Range Electrical Specifications & Dimensions

| Part number | DIN Type | Nom. Voltage (V) | C8 AH to 1.75VPC | C10 AH to 1.80VPC | C100 AH to 1.80VPC | Outline Dimensions (mm) | | | | | Weight With acid (kg) | Acid Weight (kg) | Pole Pairs | Internal Resist. acc. to IEC 896-2 ( mΩ ) | Short Circuit Current | Termi-nal |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | Length (l) | Width (b/w) | Height (h) | Height (h2) | In-stalled Length (B/L) | | | | | | |
| 2TS060600 | 6 OPzS 600 | 2 | 664 | 680 | 902 | 145 | 206 | 646 | 701 | 155 | 45.5 | 13.5 | 1 | 0.60 | 4350 | F-M8 |

Acid density ρ = 1.240 kg/l

## Tubular OPzS Range Discharge Data Amperes at 25°C

| End Point Volts/Cell | Discharge Time in Minutes | | | | | Discharge Time in hours | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 min | 10 min | 15 min | 20 min | 30 min | 1 hour | 1.5 hour | 2 hour | 3 hour | 4 hour | 5 hour | 8 hour | 10 hour | 20 hour |
| 1.90 | 265 | 263 | 254 | 244 | 227 | 197 | 172 | 155 | 124 | 105 | 93.6 | 69.3 | 59.2 | 32.8 |
| 1.87 | 289 | 286 | 275 | 265 | 246 | 213 | 185 | 166 | 132 | 112 | 98.3 | 72.8 | 62.3 | 34.3 |
| 1.85 | 313 | 309 | 296 | 286 | 265 | 228 | 198 | 177 | 140 | 118 | 103 | 76.2 | 65.3 | 35.7 |
| 1.83 | 347 | 341 | 325 | 312 | 289 | 245 | 211 | 187 | 147 | 123 | 107 | 77.8 | 66.4 | 36.4 |
| 1.80 | 398 | 388 | 368 | 352 | 325 | 271 | 232 | 202 | 156 | 129 | 112 | 80.2 | 68.0 | 37.4 |
| 1.75 | 480 | 462 | 437 | 416 | 381 | 306 | 258 | 220 | 167 | 136 | 116 | 83.0 | 70.0 | 38.4 |
| 1.70 | 562 | 535 | 507 | 479 | 433 | 337 | 279 | 233 | 173 | 139 | 118 | 84.3 | 70.7 | 39.1 |
| 1.65 | 643 | 605 | 576 | 541 | 482 | 364 | 294 | 243 | 177 | 141 | 119 | 86.5 | 71.4 | 39.4 |

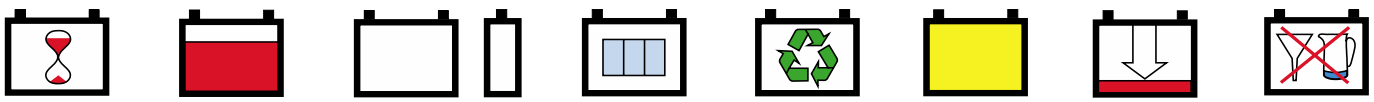
## Tubular OPzS Range Discharge Data Watts at 25°C

| End Point Volts/Cell | Discharge Time in Minutes | | | | | Discharge Time in hours | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 5 min | 10 min | 15 min | 20 min | 30 min | 1 hour | 1.5 hour | 2 hour | 3 hour | 4 hour | 5 hour | 8 hour | 10 hour | 20 hour |
| 1.90 | 434 | 434 | 426 | 410 | 384 | 336 | 301 | 274 | 227 | 197 | 179 | 134 | 114 | 65.1 |
| 1.87 | 521 | 519 | 502 | 484 | 452 | 392 | 345 | 311 | 252 | 215 | 192 | 143 | 122 | 68.5 |
| 1.85 | 579 | 575 | 553 | 533 | 497 | 430 | 375 | 336 | 268 | 227 | 201 | 149 | 128 | 70.7 |
| 1.83 | 635 | 627 | 600 | 577 | 536 | 459 | 398 | 354 | 280 | 235 | 206 | 152 | 130 | 71.9 |
| 1.80 | 718 | 703 | 670 | 643 | 596 | 503 | 434 | 380 | 296 | 246 | 215 | 156 | 132 | 73.7 |
| 1.75 | 842 | 818 | 777 | 743 | 685 | 560 | 479 | 410 | 314 | 257 | 221 | 160 | 136 | 75.4 |
| 1.70 | 961 | 923 | 879 | 835 | 764 | 608 | 512 | 431 | 325 | 262 | 224 | 162 | 137 | 76.6 |
| 1.65 | 1065 | 1015 | 976 | 922 | 834 | 648 | 534 | 449 | 332 | 265 | 226 | 166 | 138 | 77.1 |

## Long Duration Discharge Capacity (Ah) at 25°C

| Part No. | DIN Type | End Point Volts/Cell | $C_{24}$ | $C_{48}$ | $C_{72}$ | $C_{96}$ | $C_{100}$ | $C_{120}$ | $C_{240}$ |
|---|---|---|---|---|---|---|---|---|---|
| 2TS060600 | 6 OPzS 600 | 1.85 | 754 | 828 | 890 | 891 | 893 | 896 | 908 |
| | | 1.80 | 762 | 836 | 899 | 900 | 902 | 905 | 917 |

Actual battery performance data may be +/-5% of figures shown above.



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