

Tubular OPzV Range

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power your applications



GERMANY TECHNOLOGY

20 OPzV 2500

(2V-2630AH @ C10)

HIGH PERFORMANCE



Specifications

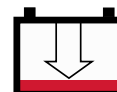
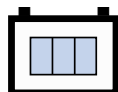
- Extraordinary energy-saving features in addition with robust reliability
- Maintenance-free (no topping up) during the whole service life
- Nominal capacity 100~3000 Ah C₁₀
- Design life: 20 years at 20°C (80% remaining capacity from C₁₀)
- Container material: ABS, UL 94-HB;
optional: ABS, UL 94V-0
- Robust tubular plate technology
- Very low gassing due to internal gas recombination
- Long shelf life of up to 2 years at 20°C without recharge due to the very low self discharge rate
- Proof against deep discharge according to DIN 43 539 T5
- Cells in compliance with DIN 40742 Completely recyclable

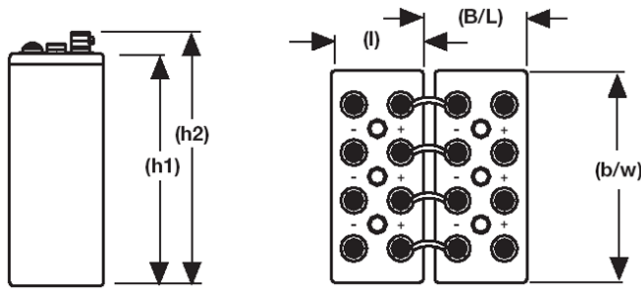
Applications

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

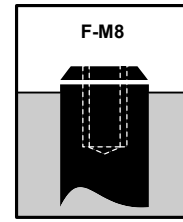
Innovative Features

- Tubular positive plates:** Robust tubular plates consisting of a lead calcium antimony-free alloy, optimized for high corrosion resistances
 - Pasted negative plates:** Grid plate construction consisting of lead calcium alloy
 - Separators:** Micro porous and robust, for electrical separation of the positive and negative plates and optimized for low internal resistance
 - Housing:** ABS, on request flame retardant ABS according to UL 94 V-0
 - One way relief valve:** operates at low pressure and fitted with flame arrestor, release gas in case of excess pressure and protects the cell against atmosphere
 - 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
 - Electrolyte:** Gel structure
- 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.





Dimension figure



20 Nm

Container: ABS, UL 94-HB Optional ABS, UL 94V-0

Tubular OPzV Range Electrical Specifications & Dimensions

| Part number | DIN Type | Nom. Voltage (V) | C10 AH to 1.80VPC | C100 AH to 1.80VPC | Outline Dimensions (mm) | | | | | Weight (kg) | Pole Pairs | Internal Resist. acc. to IEC 896-2 mOhms | Short Circuit Current acc. to IEC 896-2A | Terminal |
|-------------|--------------|------------------|-------------------|--------------------|-------------------------|-------------|-------------|---------------|------------------------|-------------|------------|--|--|----------|
| | | | | | Length (l) | Width (b/w) | Height (h1) | Height t (h2) | Installed Length (B/L) | | | | | |
| 2TV202500 | 20 OPzV 2500 | 2 | 2630 | 3148 | 212 | 490 | 775 | 815 | 223 | 192 | 4 | 0.12 | 17500 | F-M8 |

Acid density d_{40} = 1.260 kg/l

Tubular OPzV Range Discharge Data Amperes at 20°C

| End Point Volts/Cell | Discharge Time in Minutes | | Discharge Time in hours | | | | | | | | |
|----------------------|---------------------------|--------|-------------------------|--------|--------|--------|--------|--------|--------|---------|---------|
| | 15 min | 30 min | 1 hour | 2 hour | 3 hour | 4 hour | 5 hour | 6 hour | 8 hour | 10 hour | 20 hour |
| 1.90 | 1218 | 1050 | 914 | 683 | 538 | 435 | 370 | 326 | 269 | 223 | 117 |
| 1.87 | 1365 | 1260 | 1040 | 756 | 594 | 479 | 407 | 357 | 286 | 237 | 126 |
| 1.83 | 1596 | 1470 | 1187 | 840 | 651 | 525 | 443 | 382 | 300 | 252 | 132 |
| 1.80 | 1764 | 1617 | 1292 | 886 | 656 | 548 | 460 | 397 | 313 | 263 | 136 |
| 1.75 | 2100 | 1848 | 1444 | 945 | 662 | 571 | 477 | 410 | 323 | 267 | 139 |
| 1.70 | 2394 | 2037 | 1533 | 991 | 735 | 586 | 487 | 418 | 326 | 269 | 144 |

Tubular OPzV Range Discharge Data Watts at 20°C

| End Point Volts/Cell | Discharge Time in Minutes | | Discharge Time in hours | | | | | | | | |
|----------------------|---------------------------|--------|-------------------------|--------|--------|--------|--------|--------|--------|---------|---------|
| | 15 min | 30 min | 1 hour | 2 hour | 3 hour | 4 hour | 5 hour | 6 hour | 8 hour | 10 hour | 20 hour |
| 1.90 | 1588 | 1533 | 1462 | 1146 | 952 | 814 | 709 | 625 | 515 | 444 | 231 |
| 1.87 | 1959 | 1916 | 1680 | 1302 | 1071 | 90 | 781 | 688 | 560 | 482 | 252 |
| 1.83 | 2668 | 2463 | 2092 | 1568 | 1260 | 1037 | 881 | 774 | 622 | 522 | 263 |
| 1.80 | 2751 | 2540 | 2157 | 1616 | 1299 | 1070 | 908 | 798 | 641 | 538 | 267 |
| 1.75 | 3219 | 2893 | 2409 | 1794 | 1405 | 1130 | 939 | 814 | 641 | 538 | 272 |
| 1.70 | 3620 | 3218 | 2707 | 1912 | 1413 | 1130 | 939 | 814 | 641 | 538 | 278 |

Long Duration Discharge Capacity (Ah) at 20°C

| Part No. | DIN Type | End Point Volts/Cell | C ₂₄ | C ₄₈ | C ₁₀₀ | C ₁₂₀ | C ₂₄₀ |
|-----------|--------------|----------------------|-----------------|-----------------|------------------|------------------|------------------|
| 2TV202500 | 20 OPzV 2500 | 1.85 | 2732 | 3050 | 3117 | 3181 | 3235 |
| | | 1.80 | 2759 | 3081 | 3148 | 3213 | 3267 |

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

