



GERMANY TECHNOLOGY

6 OPzV 300

(2V-315AH @ C10)

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

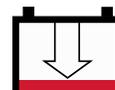
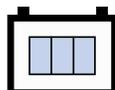
- Telecommunications Emergency lighting
- Microwave radio systems Power generation plants
- Photovoltaic / Solar

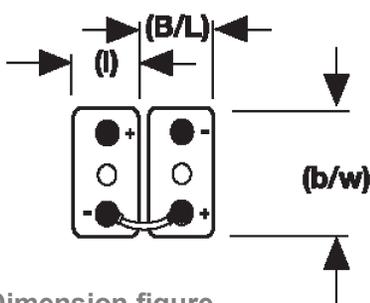
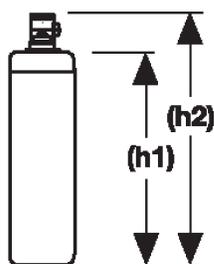
HIGH PERFORMANCE



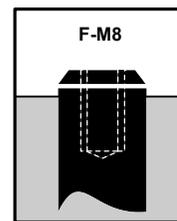
Innovative Features

- ◆ **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) | | | | | |
| 2TV060300 | 6 OPzV 300 | 2 | 315 | 388 | 145 | 206 | 355 | 390 | 155 | 28.0 | 1 | 0.45 | 3420 | F-M8 |

Acid density $d_N = 1.260 \text{ kg/l}$

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 | 218 | 189 | 139 | 86.6 | 66.2 | 54.6 | 47 | 43.1 | 32.6 | 27.8 | 14.3 |
| 1.87 | 257 | 208 | 150 | 103 | 79.8 | 60.9 | 54 | 45.2 | 37.8 | 31.5 | 15.5 |
| 1.85 | 293 | 230 | 155 | 97.7 | 73.7 | 59.9 | 51.5 | 45.2 | 36.2 | 30.5 | 16.2 |
| 1.80 | 318 | 242 | 161 | 100 | 78.8 | 61.7 | 52.3 | 45.7 | 36.5 | 31.5 | 16.8 |
| 1.75 | 358 | 259 | 165 | 103 | 78.8 | 63.0 | 53.6 | 46.6 | 37.8 | 31.5 | 17.7 |
| 1.70 | 394 | 271 | 174 | 106 | 78.8 | 63.6 | 53.6 | 46.7 | 37.8 | 32.0 | 18.5 |

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 | 329 | 299 | 238 | 168 | 131 | 107 | 91.4 | 79.8 | 65.1 | 55.7 | 28.8 |
| 1.87 | 405 | 352 | 269 | 186 | 142 | 119 | 99.8 | 87.2 | 70.4 | 59.9 | 30.6 |
| 1.85 | 526 | 427 | 320 | 209 | 160 | 130 | 110 | 95.6 | 76.7 | 64.1 | 31.9 |
| 1.80 | 542 | 441 | 330 | 215 | 165 | 134 | 113 | 98.7 | 78.8 | 66.2 | 32.5 |
| 1.75 | 614 | 487 | 357 | 228 | 170 | 138 | 114 | 99.8 | 78.8 | 66.2 | 33.2 |
| 1.70 | 680 | 522 | 372 | 230 | 170 | 138 | 114 | 99.8 | 78.8 | 66.2 | 34.1 |

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 |
|-----------|------------|----------------------|-----------------|-----------------|------------------|------------------|------------------|
| 2TV060300 | 6 OPzV 300 | 1.85 | 337 | 375 | 384 | 392 | 399 |
| | | 1.80 | 340 | 379 | 388 | 396 | 403 |

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

