



## GERMANY TECHNOLOGY

# 24 OPzV 3000

(2V-3150AH @ C10)

### Specifications

- ◆ 20 years design life @ 25°C(77°F);
- ◆ 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
- ◆ Container material: ABS, UL 94-HB; Optional: UL 94V-0
- ◆ Robust tubular plate technology
- ◆ Very low gassing due to internal gas recombination
- ◆ Up to 24 months shelf life due to low self-discharge rate (less than 2%/month at 25°C )
- ◆ The active material is manufactured from best purity lead (99.994%) to minimize the negative effects of impurities
- ◆ Proof against deep discharge according to DIN 43539 T5
- ◆ Cells in compliance with DIN 40742 Completely recyclable

### Applications

- ◆ Telecommunications
- ◆ Microwave radio systems
- ◆ Power generation plants
- ◆ Emergency lighting
- ◆ 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.



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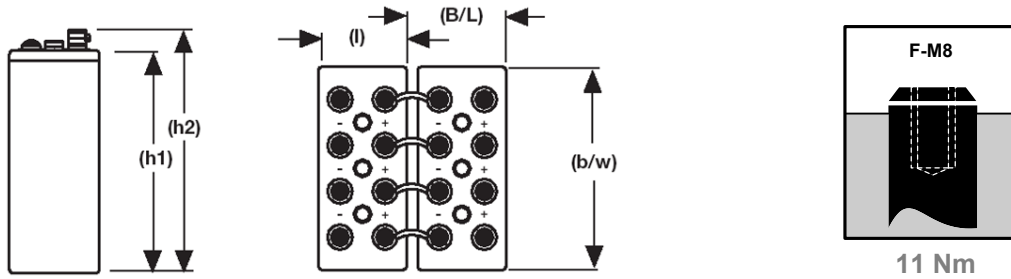
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Dimension figure

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 (mΩ)	Short Circuit Current (A)	Terminal
					Length (l)	Width (b/w)	Height (h1)	Height (h2)	Installed Length (B/L)					
2TV243000	24 OPzV 3000	2	3150	3778	212	576	772	807	223	208	4	0.25	21000	F-M8

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

## Tubular OPzV Range Discharge Data Amperes at 25°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	1344	1260	1096	819	645	522	444	391	322	268	141
1.87	1628	1512	1239	907	714	575	489	428	342	286	151
1.85	1915	1764	1424	1008	781	630	532	459	361	302	158
1.80	2117	1940	1550	1063	819	658	552	477	376	315	163
1.75	2520	2218	1733	1134	857	686	571	491	389	320	168
1.70	2873	2444	1840	1189	882	704	585	502	391	323	174

## Tubular OPzV Range Discharge Data Watts at 25°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	1906	1839	1754	1374	1141	980	852	749	617	534	276
1.87	2351	2298	2016	1561	1287	1084	938	826	672	578	305
1.85	3203	2957	2511	1881	1512	1246	1055	930	744	627	315
1.80	3301	3048	2588	1938	1559	1285	1088	959	768	646	324
1.75	3864	3473	2891	2153	1687	1357	1129	978	768	646	328
1.70	4343	3862	3249	2294	1695	1357	1129	978	768	646	336

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

Part No.	DIN Type	End Point Volts/Cell	C <sub>24</sub>	C <sub>48</sub>	C <sub>100</sub>	C <sub>120</sub>	C <sub>240</sub>
2TV243000	24 OPzV 3000	1.85	3279	3660	3741	3817	3882
		1.80	3312	3697	3778	3855	3921

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



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