



## GERMANY TECHNOLOGY

# 5 OPzV 250

(2V-263AH @ 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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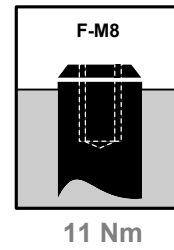
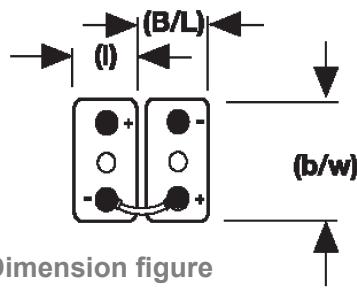
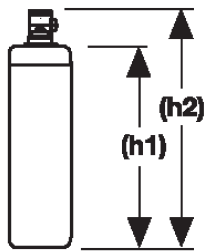
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Dimension figure

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)					
2TV050250	5 OPzV 250	2	263	324	124	206	355	390	134	21.0	1	0.49	2710	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	193	158	116	72.5	55.7	45.2	39.9	35.7	27.3	23.1	12.1
1.87	214	173	125	86.1	66.2	52.0	45.2	37.8	31.5	26.3	12.9
1.85	244	191	129	81.4	61.4	49.9	43.1	37.3	30.5	25.2	13.5
1.80	266	202	134	83.5	65.6	51.5	43.6	37.8	30.5	26.3	13.9
1.75	298	216	145	86.1	65.6	52.5	44.6	38.9	31.5	27.3	14.5
1.70	328	226	145	87.7	65.6	53.0	44.6	38.9	32.0	27.3	15.3

## 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	274	248	200	141	109	88.2	76.7	66.2	53.6	45.2	23.6
1.87	338	292	225	154	119	97.7	83.0	72.5	58.8	49.4	25.6
1.85	437	356	266	175	133	109	91.4	79.8	64.1	52.5	26.5
1.80	450	366	274	181	138	112	94.5	81.9	66.2	54.6	27.0
1.75	511	407	296	190	142	116	95.6	83.0	66.2	54.6	28.1
1.70	567	435	309	192	143	116	95.6	83.0	66.2	54.6	28.9

## 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>
2TV050250	5 OPzV 250	1.85	281	312	321	328	334
		1.80	284	315	324	331	337

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



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