Tubular OPzV Range

EverExceed®
power your applications

HIGH PERFORMANCE

GERMANY TECHNOLOGY

2 OPzV 100

(2V-105AH @ 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 C_{10}
- Design life: 20 years at 20°C(80% remaining capacity from C_{10})
- 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

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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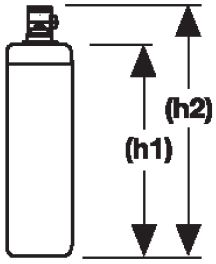
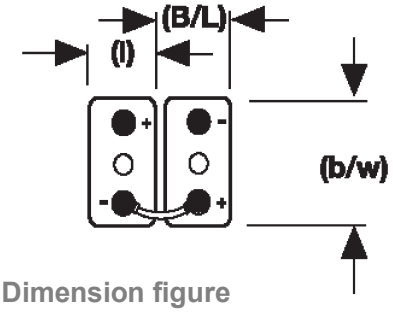
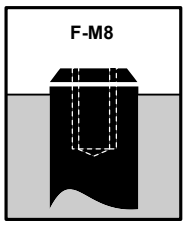




Dimension figure



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)					
2TV020100	2 OPzV 100	2	105	130	103	206	355	390	111	12.5	1	1.00	1590	F-M8

Acid density d_N = 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	77	63.0	44.6	28.9	22.0	18.1	15.7	13.6	10.7	9.4	4.79
1.87	86	69	49.9	34.7	26.3	20.7	17.9	15.5	12.6	10.5	5.1
1.85	97	76	51.5	32.5	24.7	19.9	17.1	14.9	12.1	10.3	5.5
1.80	106	81	53.5	33.4	26.3	20.7	17.6	15.1	12.3	10.5	5.7
1.75	119	87	58.0	34.5	26.3	21.0	17.9	15.5	12.6	10.5	6.1
1.70	131	91	58.5	35.1	26.3	21.2	18.1	15.7	12.6	11.1	6.4

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	109	100	80.0	56.0	43.6	35.7	30.5	26.8	21.0	17.3	9.5
1.87	135	117	90.7	62.0	47.3	38.9	33.6	29.4	23.1	19.5	10.1
1.85	175	143	106	70.0	54.0	43.1	36.7	32.1	25.2	21.0	10.8
1.80	180	147	109	72	55	44	37.8	33.1	25.7	21.5	11.0
1.75	204	163	118	76	57.0	45.7	38.3	33.6	25.7	21.5	11.5
1.70	227	174	123	76	57.0	45.7	38.3	33.6	25.7	21.5	11.9

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}
2TV020100	2 OPzV 100	1.85	113	125	129	131	133
		1.80	114	126	130	132	134

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