



GERMANY TECHNOLOGY

**9 OPzV 630**

(2V-662AH @ 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<sub>10</sub>
- ◆ Design life: 20 years at 20°C (80% remaining capacity from C<sub>10</sub>)
- ◆ 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

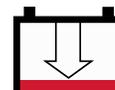
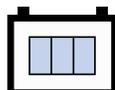
- Telecommunications  Emergency lighting
- Microwave radio systems  Power generation plants
- Photovoltaic / Solar

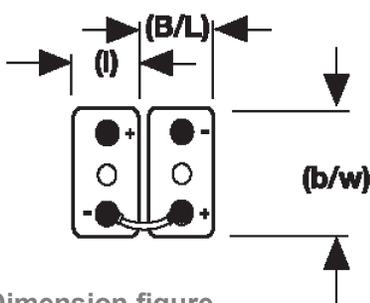
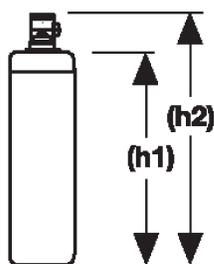
# HIGH PERFORMANCE



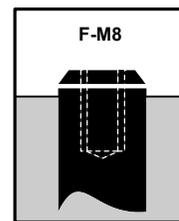
## Innovative Features

- ◆ **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)					
2TV090630	9 OPzV 630	2	662	815	210	254	471	506	235	53.5	1	0.35	4850	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	344	324	258	182	143	119	102	89.3	71.4	58.8	30.2
1.87	397	364	285	195	151	126	107	93.5	74.0	60.9	34.4
1.85	490	417	318	212	161	132	112	97.1	77.7	64.6	35.4
1.80	543	463	344	221	166	135	114	99.2	79.8	66.2	36.5
1.75	622	516	371	230	172	139	117	102	80.6	67.2	37.8
1.70	701	569	387	267	175	140	118	102	80.9	68.3	38.9

## 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	484	458	423	327	268	226	196	173	142	134	60.8
1.87	600	572	482	369	301	250	217	191	155	133	65.8
1.85	813	720	594	433	345	284	240	212	170	40	67.8
1.80	838	742	613	446	356	292	248	218	175	149	69.0
1.75	965	839	695	485	377	309	259	225	72	150	71.8
1.70	1078	926	747	509	383	309	259	225	177	150	73.2

## Long Duration Discharge Capacity (Ah) at 20°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>
2TV090630	9 OPzV 630	1.85	708	788	807	823	838
		1.80	715	796	815	831	846

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

