



GERMANY TECHNOLOGY

**11 OPzV 770**

(2V-809AH @ C10)

# HIGH PERFORMANCE



## Specifications

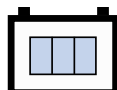
- ◆ Extraordinary energy-saving features in addition with robust reliability
- ◆ Maintenance-free (no topping up) during the whole service life
- ◆ Nominal capacity 100~3000 Ah C<sub>10</sub>
- ◆ Design life: 20 years at 20°C (80% remaining capacity from C<sub>10</sub>)
- ◆ Container material: ABS, UL 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

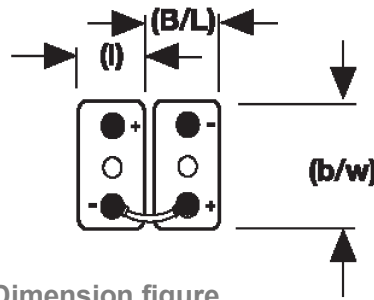
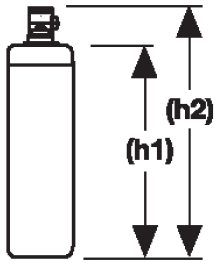
## Applications

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

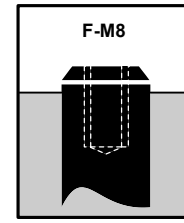
## Innovative Features

- ◆ **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)					
2TV110770	11 OPzV 770	2	809	997	227	208	475	513	235	65.5	1	0.35	6300	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	420	396	315	222	174	146	125	108	86.6	71.9	36.5
1.87	485	445	348	238	185	153	131	114	90.3	74.6	39.5
1.85	599	509	389	258	195	162	137	119	94.5	78.8	41.0
1.80	663	566	420	269	203	165	140	122	97.1	80.9	42.2
1.75	759	630	445	280	210	170	141	125	98.7	81.9	43.5
1.70	857	695	473	289	214	171	144	125	99.2	81.9	45.0

## 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	591	560	518	399	328	276	239	211	174	165	72.0
1.87	733	699	589	450	368	306	266	233	190	163	79.8
1.85	993	880	728	529	423	347	294	258	208	176	82.0
1.80	1024	907	750	546	436	357	303	267	214	182	83.5
1.75	1179	1026	849	593	461	377	317	275	217	184	86.5
1.70	1318	1132	912	623	469	377	317	275	217	184	88.6

## 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>
2TV110770	11 OPzV 770	1.85	865	963	987	1007	1024
		1.80	874	973	997	1017	1034

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

