



GERMANY TECHNOLOGY

6 OPzV 600

(2V-630AH @ C10)

HIGH PERFORMANCE



Specifications

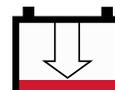
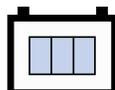
- ◆ Extraordinary energy-saving features in addition with robust reliability
- ◆ Maintenance-free (no topping up) during the whole service life
- ◆ Nominal capacity 100~3000 Ah C₁₀
- ◆ Design life: 20 years at 20°C (80% remaining capacity from C₁₀)
- ◆ Container material: ABS, UL 94-HB; optional: ABS, 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

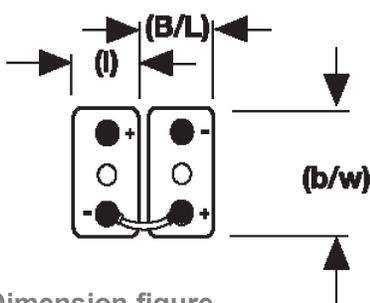
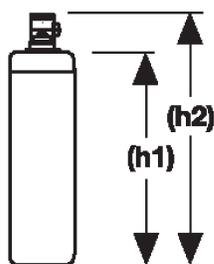
Applications

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

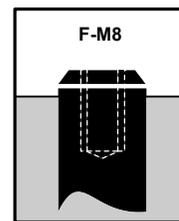
Innovative Features

- ◆ **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)					
2TV060600	6 OPzV 600	2	630	777	145	206	646	681	155	48.0	1	0.38	4750	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	328	309	246	173	135	113	97.1	84.0	67.7	56.2	28.8
1.87	378	347	271	186	144	120	102	89.3	70.6	58.8	32.5
1.85	466	397	302	202	153	126	107	92.4	74.0	61.4	33.2
1.80	517	441	328	209	158	129	108	94.5	75.6	63.0	34.2
1.75	592	491	353	218	164	132	111	97.0	76.9	64.1	35.2
1.70	668	542	369	254	167	133	112	97.1	77.2	65.1	36.3

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	468	443	410	315	259	218	189	167	137	119	56.8
1.87	580	553	466	356	291	242	209	184	149	128	61.2
1.85	785	696	574	419	334	274	231	204	164	139	63.8
1.80	810	717	592	432	344	282	238	210	169	143	64.8
1.75	932	811	671	469	364	298	249	216	171	144	66.3
1.70	1043	896	721	492	371	298	249	216	171	144	67.5

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
2TV060600	6 OPzV 600	1.85	674	750	769	785	799
		1.80	681	758	777	793	807

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

