



GERMANY TECHNOLOGY

20 OPzS 2500

(2V-2800AH @ C10)

Specifications:

- ☑ Very high operational reliability under rough operating conditions.
- ☑ Low maintenance due to reduced antimony in the alloy and high electrolyte reserve.
- ☑ 20 years at 20°C (80% remaining capacity from C10).
- ☑ Also designed for cyclic applications.
- ☑ Also available in dry charged condition with separate electrolyte.
- ☑ Low gassing due to PbSb1.6SnSe alloy (EN 50272-2).
- ☑ Conforms to DIN 40 736 and DIN 40 737 T3.
- ☑ Electrolyte: diluted sulphuric acid dN = 1.25 kg/l.
- ☑ Optimized plate design produces increased capacities compared to DIN.
- ☑ Completely recyclable.

Applications

- ☑ Telecommunications
- ☑ Emergency lighting
- ☑ Microwave radio systems
- ☑ Power generation plants
- ☑ Photovoltaics

**PROVEN HIGH RELIABILITY ENERGY
STORAGE FOR CRITICAL APPLICATION**

HIGH PERFORMANCE

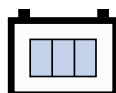


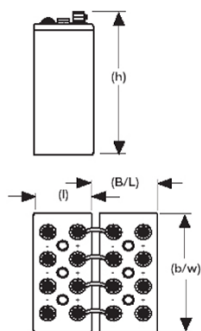
Innovative Features

- ☑ Tubular positive plates: Robust tubular plates consisting of a lead antimony alloy, optimized for high corrosion resistances.
- ☑ Pasted negative plates: Grid plate construction consisting of low antimony with long-life expander material.
- ☑ Separators: Microporous and robust, for electrical separation of the positive and negative plates and optimized for low internal resistance.
- ☑ Container: High impact, transparent SAN (Styrol-Acryl-Nitril).
- ☑ Safety Vents: Cells incorporate flame retardant ceramic plugs that filter out any drops of electrolyte from the escaping gases preventing any errant spark or flame from entering the battery.
- ☑ 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.

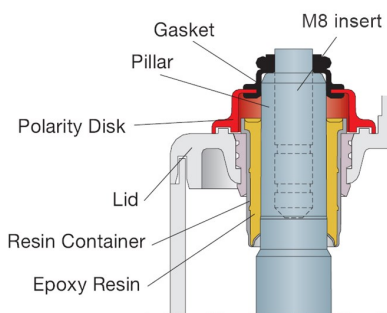
Standard and Compliance

- ☑ DIN 40736 part 1
- ☑ DIN 40737 part 2
- ☑ IEC 896 part 1

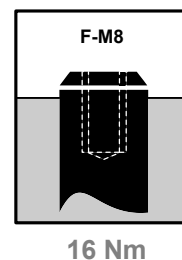




Dimension figure



High Reliability Post Seal



16 Nm

Container: SAN (acrylonitrile polystyrene),
UL 94 V-0 standard

Tubular OPzS Range Electrical Specifications & Dimensions

Part number	DIN Type	Nom. Voltage (V)	C8 AH to 1.75VPC	C10 AH to 1.80VPC	C100 AH to 1.80VPC	Outline Dimensions (mm)				Weight With acid (kg)	Acid Weight (kg)	Pole Pairs	Internal Resist. acc. to IEC 896-2 mOhms	Short Circuit Current	Terminal
						Length (l)	Width (b/w)	Height (h)	Installed Length (B/L)						
2TS202500	20 OPzS 2500	2	2800	2800	3671	215	490	815	225	190	50.0	4	0.26	17000	F-M8

Acid density $d_N = 1.250 \text{ kg/l}$

Tubular OPzS Range Discharge Data Amperes at 20°C

End Point Volts/Cell	Discharge Time in Minutes					Discharge Time in hours									
	5 min	10 min	15 min	20 min	30 min	1 hour	1.5 hour	2 hour	3 hour	4 hour	5 hour	8 hour	10 hour	20 hour	
1.90	890	889	865	841	740	684	621	560	464	402	361	270	232	125	
1.87	983	980	953	926	848	745	675	605	498	429	384	286	245	133	
1.85	1075	1070	1040	1010	956	806	728	649	532	456	406	302	258	140	
1.83	1205	1200	1165	1125	1060	881	790	700	566	482	426	313	267	145	
1.80	1390	1375	1345	1300	1210	993	884	775	616	520	456	330	280	153	
1.75	1735	1710	1645	1565	1450	1165	1015	877	680	569	496	350	293	161	
1.70	2060	2020	1930	1830	1670	1320	1130	960	728	605	524	361	300	165	
1.65	2390	2335	2215	2090	1885	1465	1220	1025	762	630	543	367	302	166	

Tubular OPzS Range Discharge Data Watts at 20°C

End Point Volts/Cell	Discharge Time in Minutes					Discharge Time in hours									
	5 min	10 min	15 min	20 min	30 min	1 hour	1.5 hour	2 hour	3 hour	4 hour	5 hour	8 hour	10 hour	20 hour	
1.90	1390	1390	1360	1330	1280	1140	1040	956	816	726	665	506	441	236	
1.87	1755	1750	1700	1665	1365	1355	1235	1115	930	810	731	552	478	261	
1.85	1990	1980	1930	1875	1780	1505	1365	1220	1010	866	777	584	503	276	
1.83	2205	2195	2140	2070	1955	1630	1465	1305	1066	911	812	603	518	284	
1.80	2495	2480	2435	2365	2210	1815	1625	1430	1150	978	864	632	540	298	
1.75	3035	3010	2905	2786	2590	2085	1825	1590	1255	1055	931	665	561	312	
1.70	3510	3465	3320	3175	2915	2315	2000	1715	1325	1105	973	682	573	319	
1.65	3955	3900	3720	3555	3235	2535	2130	1810	1375	1145	1005	690	574	320	

Long Duration Discharge Capacity (Ah) at 20°C

Part No.	DIN Type	End Point Volts/Cell	C ₂₄	C ₄₈	C ₇₂	C ₉₆	C ₁₀₀	C ₁₂₀	C ₂₄₀
2TS202500	20 OPzS 2500	1.85	3090	3451	3605	3626	3635	3646	3744
		1.80	3121	3486	3641	3662	3671	3682	3781

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

