

Tubular OPzS Range

EverExceed®
power your applications



GERMANY TECHNOLOGY

16 OPzS 2000

(2V-2250AH @ 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

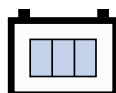


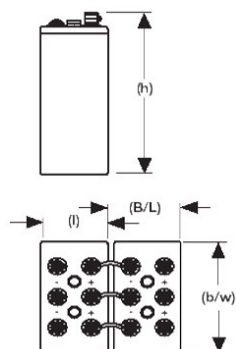
Innovative Features

- ☑ 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.

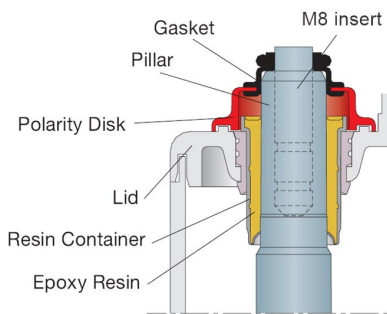
Standard and Compliance

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

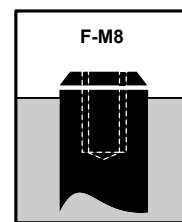




Dimension figure



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)						
2TS162000	16 OPzS 2000	2	2248	2250	2931	215	400	815	225	150	40.0	3	0.28	12800	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	716	714	694	676	642	549	499	449	372	322	290	218	186	99.8
1.87	791	788	765	744	705	599	542	486	400	344	308	231	197	106
1.85	865	861	835	811	768	648	585	522	427	366	326	243	207	112
1.83	973	966	934	904	850	708	634	562	454	387	342	252	214	116
1.80	1135	1125	1080	1040	974	798	709	622	495	418	367	265	225	123
1.75	1395	1375	1320	1260	1165	933	817	705	547	458	398	281	235	129
1.70	1655	1625	1555	1470	1345	1060	907	771	585	486	421	290	241	132
1.65	1920	1875	1775	1675	1510	1180	984	824	612	506	436	295	243	133

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	1120	1120	1095	1070	1030	905	836	770	656	584	533	406	355	189
1.87	1410	1405	1365	1330	1185	1085	990	894	745	649	587	445	384	208
1.85	1600	1595	1550	1505	1430	1210	1095	980	809	695	624	470	404	221
1.83	1780	1770	1715	1665	1570	1310	1175	1045	856	731	651	485	415	227
1.80	2040	2030	1955	1895	1780	1460	1305	1150	926	786	695	507	434	240
1.75	2440	2420	2330	2245	2080	1670	1470	1280	1010	850	747	534	450	250
1.70	2820	2790	2675	2550	2345	1860	1605	1375	1065	889	792	548	460	255
1.65	3175	3130	2980	2845	2590	2040	1715	1455	1105	921	805	555	462	257

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
2TS162000	16 OPzS 2000	1.85	2472	2760	2884	2894	2902	2905	2966
		1.80	2497	2788	2913	2923	2931	2934	2996

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

