



GERMANY TECHNOLOGY

18 OPzS 2250

(2V-2450AH @ 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

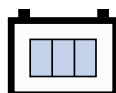


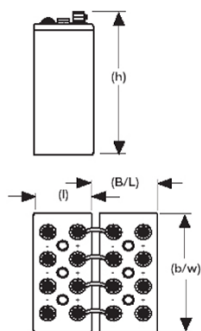
Innovative Features

- ☑ 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.

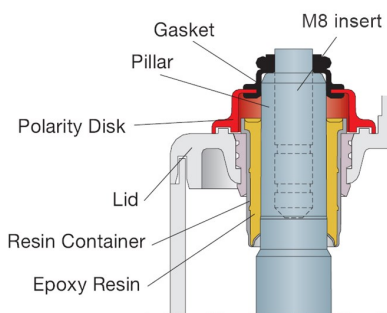
Standard and Compliance

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

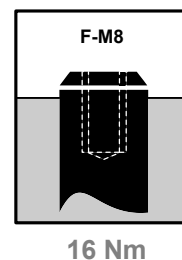




Dimension figure



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)						
2TS182250	18 OPzS 2250	2	2448	2450	3292	215	490	815	225	158	48.0	4	0.27	14600	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	751	750	731	711	676	584	533	482	406	352	316	237	202	109
1.87	830	827	805	782	742	636	578	521	436	376	336	251	214	116
1.85	908	903	878	853	808	688	623	559	465	399	355	265	225	122
1.83	1015	1010	982	951	894	752	677	602	495	421	373	275	233	127
1.80	1185	1175	1140	1095	1025	848	757	666	539	455	399	289	245	134
1.75	1460	1440	1390	1325	1225	993	871	755	595	498	434	306	256	141
1.70	1735	1700	1635	1545	1410	1125	968	826	637	529	458	316	262	144
1.65	2015	1965	1870	1765	1590	1250	1050	882	666	550	475	321	265	145

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	1170	1170	1150	1125	1080	965	890	824	714	635	582	441	386	206
1.87	1480	1475	1440	1400	1245	1155	1055	958	813	708	641	484	417	228
1.85	1675	1670	1630	1580	1505	1285	1165	1050	881	758	680	513	439	240
1.83	1860	1850	1800	1750	1650	1390	1255	1120	933	796	711	529	452	249
1.80	2130	2120	2065	1995	1870	1550	1395	1230	1010	855	756	553	473	261
1.75	2555	2535	2455	2360	2185	1775	1570	1370	1095	924	815	581	490	274
1.70	2955	2915	2810	2680	2460	1975	1715	1475	1155	968	850	597	500	279
1.65	3330	3280	3140	3000	2725	2160	1830	1555	1200	1000	877	603	503	280

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
2TS182250	18 OPzS 2250	1.85	2781	3105	3245	3255	3259	3265	3327
		1.80	2809	3136	3277	3288	3292	3298	3360

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

