



GERMANY TECHNOLOGY

7 OPzS 700

(2V-815AH @ C10)

HIGH PERFORMANCE



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

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.

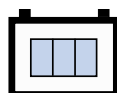
**PROVEN HIGH RELIABILITY ENERGY
STORAGE FOR CRITICAL APPLICATION**

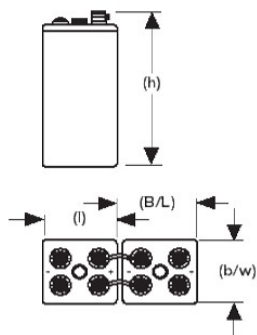
Standard and Compliance

DIN 40736 part 1

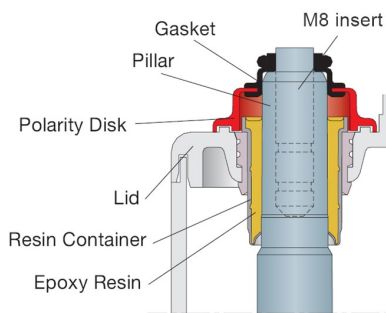
DIN 40737 part 2

IEC 896 part 1

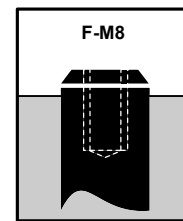




Dimension figure



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)						
2TS070700	7 OPzS 700	2	800	815	1075	215	193	695	225	60.0	15.0	2	0.44	6000	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	341	335	320	309	285	246	213	188	150	128	113	83.0	70.5	39.0	
1.87	374	366	348	335	309	264	229	201	160	136	119	87.4	74.2	40.8	
1.85	407	397	376	361	332	283	245	215	170	143	126	91.7	77.8	42.6	
1.83	450	439	413	394	362	305	260	227	177	148	129	93.5	79.1	43.4	
1.80	509	502	470	446	407	337	284	247	188	156	135	96	81.5	44.6	
1.75	626	603	561	527	476	383	314	270	201	164	140	100	82.6	45.8	
1.70	734	699	648	604	540	419	337	287	211	169	142	102	84.2	46.6	
1.65	841	793	734	677	599	447	355	298	217	173	144	104	85.1	47.0	

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	548	548	530	520	482	427	373	335	277	240	217	161	137	77.8	
1.87	672	663	634	613	567	492	429	379	306	263	233	171	146	81.8	
1.85	754	740	703	675	624	535	465	410	327	277	245	179	153	84.5	
1.83	820	811	765	731	673	571	492	431	339	284	251	183	154	85.9	
1.80	929	915	858	815	747	625	532	464	357	297	261	188	158	88.0	
1.75	1098	1071	1000	942	857	702	584	505	379	311	269	193	161	90.2	
1.70	1254	1210	1129	1058	955	760	621	534	396	320	272	196	163	91.1	
1.65	1397	1335	1246	1156	1040	799	648	551	407	326	274	198	165	92.0	

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
2TS070700	7 OPzS 700	1.85	896	986	1058	1063	1064	1067	1080
		1.80	905	996	1069	1073	1075	1078	1091

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

