



GERMANY TECHNOLOGY

9 OPzS 900

(2V-1026AH @ 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.

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.

Applications

Telecommunications

Emergency lighting

Microwave radio systems

Power generation plants

Photovoltaics

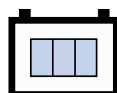
**PROVEN HIGH RELIABILITY ENERGY
STORAGE FOR CRITICAL APPLICATION**

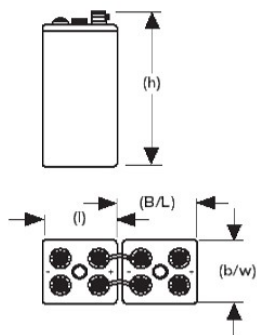
Standard and Compliance

DIN 40736 part 1

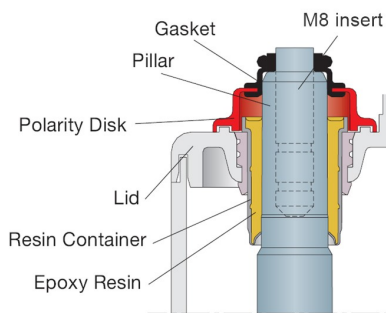
DIN 40737 part 2

IEC 896 part 1

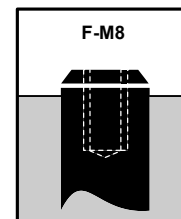




Dimension figure



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)						
2TS090900	9 OPzS 900	2	1008	1026	1355	215	235	695	225	70.0	21.5	2	0.39	7200	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	414	410	394	380	352	303	265	236	189	161	143	105.3	88.9	49.4	
1.87	453	448	428	412	382	328	284	253	202	170	150	111	93.6	51.7	
1.85	491	485	462	444	410	351	304	269	213	179	158	115	98.1	53.9	
1.83	545	536	507	485	447	378	324	285	223	186	162	118	99.9	54.9	
1.80	626	610	575	548	503	418	355	309	237	196	170	122	102.6	56.4	
1.75	759	731	685	647	589	473	394	337	253	206	176	126	105.3	58.0	
1.70	889	847	793	743	669	519	424	357	265	213	179	128	107.1	59.0	
1.65	1017	959	899	836	743	558	446	373	272	217	181	132	108.0	59.5	

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	673	673	656	638	594	524	463	418	347	302	272	203	173	98.1	
1.87	815	809	779	752	699	607	531	474	383	328	292	216	185	104	
1.85	909	900	860	829	769	662	576	512	409	345	305	226	193	107	
1.83	995	986	936	896	830	707	611	539	425	356	314	230	195	109	
1.80	1125	1107	1049	999	923	774	663	580	449	374	327	236	200	112	
1.75	1332	1292	1220	1157	1058	866	730	628	477	390	337	243	204	113	
1.70	1517	1458	1377	1296	1179	941	779	662	496	402	341	246	206	115	
1.65	1688	1611	1526	1427	1287	995	813	687	508	408	344	250	208	116	

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
2TS090900	9 OPzS 900	1.85	1121	1242	1335	1339	1341	1345	1363
		1.80	1132	1255	1348	1353	1355	1358	1376

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

