



GERMANY TECHNOLOGY

5 OPzS 350

(2V-380AH @ 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

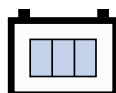


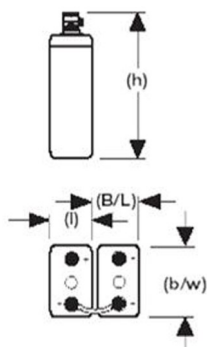
Innovative Features

- ☑ 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.

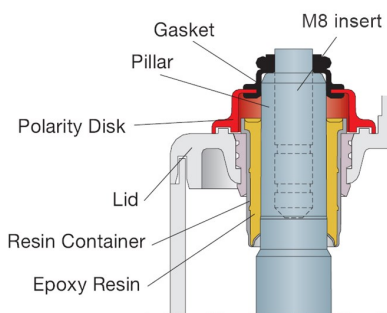
Standard and Compliance

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

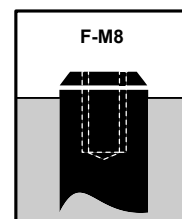




Dimension figure



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)						
2TS050350	5 OPzS 350	2	377	380	527	126	208	520	136	28.0	6.50	1	0.51	3250	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	181	178	171	165	152	128	109	94.8	75.8	63.2	54.9	39.6	33.1	18.3
1.87	198	195	187	180	165	138	117	101	80.1	66.7	57.9	41.7	34.8	19.2
1.85	215	211	202	194	178	148	124	107	84.4	70.2	60.8	43.7	36.5	20.0
1.83	238	232	221	213	194	158	131	113	87.9	72.6	62.5	44.5	37.1	20.3
1.80	273	264	251	240	216	172	141	120	93.1	76.2	65.0	45.6	38.0	20.9
1.75	333	316	296	281	247	190	153	129	97.3	79.7	68.0	47.1	39.1	21.5
1.70	394	368	339	316	274	202	161	134	100	81.4	69.5	47.1	39.9	22.0
1.65	454	417	379	349	297	211	167	137	103	82.9	69.9	47.2	40.0	22.1

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	290	290	281	276	255	222	194	171	142	119	104	76.5	63.9	36.4
1.87	355	351	338	328	303	256	219	191	154	128	113	81.8	68.4	38.3
1.85	397	392	376	363	334	279	236	204	162	135	118	85.4	71.5	39.5
1.83	435	427	408	393	359	295	247	213	167	139	121	86.6	72.4	40.2
1.80	492	479	457	439	397	319	265	226	176	145	125	88.5	73.9	41.2
1.75	586	560	527	501	445	347	284	240	183	151	130	91.1	75.9	42.1
1.70	673	634	588	552	483	365	295	248	188	153	132	91.9	77.2	43.2
1.65	755	701	643	595	514	377	303	253	192	156	133	91.9	77.2	43.2

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
2TS050350	5 OPzS 350	1.85	448	483	515	520	522	525	536
		1.80	452	488	520	525	527	530	541

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

