



GERMANY TECHNOLOGY

5 OPzS 250

(2V-265AH @ 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

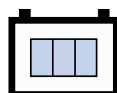
**PROVEN HIGH RELIABILITY ENERGY
STORAGE FOR CRITICAL APPLICATION**

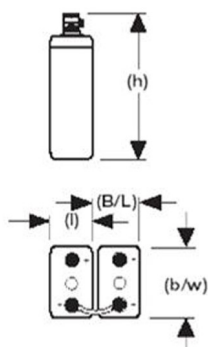
Standard and Compliance

DIN 40736 part 1

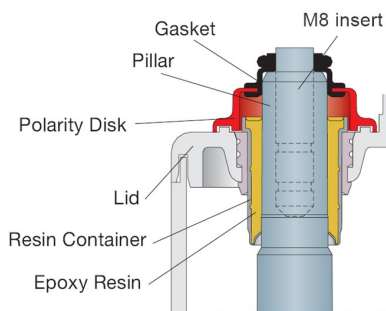
DIN 40737 part 2

IEC 896 part 1

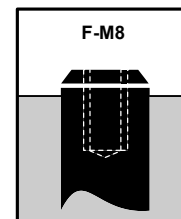




Dimension figure



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)						
2TS050250	5 OPzS 250	2	263	265	368	126	208	405	136	21.0	5.00	1	0.58	2850	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	155	153	143	135	124	97.9	82.0	70.8	55.3	45.5	39.0	27.7	23.1	12.5	
1.87	170	167	156	147	134	104	87.0	74.9	58.4	47.9	41.0	29.0	24.3	13.1	
1.85	185	181	168	159	143	110	92.0	79.0	61.5	50.3	42.9	30.3	25.5	13.7	
1.83	207	201	185	173	154	116	95.7	81.9	63.7	52.0	44.3	30.8	25.9	14.0	
1.80	241	230	211	195	170	124	101	86.3	66.9	54.5	46.3	31.6	26.5	14.6	
1.75	294	274	249	225	193	134	107	90.8	70.0	56.8	48.1	32.9	27.3	15.0	
1.70	344	313	278	250	210	141	111	93.0	71.8	57.9	48.9	33.1	27.6	15.1	
1.65	392	348	303	270	222	145	113	94.6	72.8	58.6	49.4	33.2	27.7	15.2	

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	249	249	239	225	214	176	150	131	104	86.4	75.1	54.6	44.7	24.9	
1.87	304	302	284	268	246	195	165	143	112	92.9	80.0	57.3	47.8	26.2	
1.85	342	337	313	296	268	208	174	150	118	97.1	83.3	59.1	49.9	27.0	
1.83	380	369	342	320	285	217	180	155	121	99.8	85.6	60.0	50.6	27.7	
1.80	435	418	384	355	311	229	190	162	127	104	89.1	61.2	51.6	28.7	
1.75	517	485	442	402	347	245	198	170	132	108	92.1	63.5	53.0	29.3	
1.70	588	540	483	436	370	254	204	172	135	109	93.1	63.8	53.3	29.5	
1.65	652	584	514	460	384	259	206	174	136	110	93.8	63.8	53.3	29.5	

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
2TS050250	5 OPzS 250	1.85	319	345	361	363	364	366	376
		1.80	322	348	365	367	368	370	380

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

