



GERMANY TECHNOLOGY

6 OPzS 600

(2V-680AH @ 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

- ☑ Photovoltaics / Solar
- ☑ Telecommunications
- ☑ Wind Generation
- ☑ Power generation plants
- ☑ Microwave radio systems
- ☑ Emergency lighting

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

HIGH PERFORMANCE

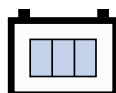


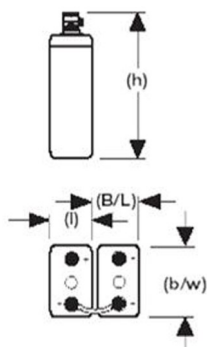
Innovative Features

- ☑ 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.

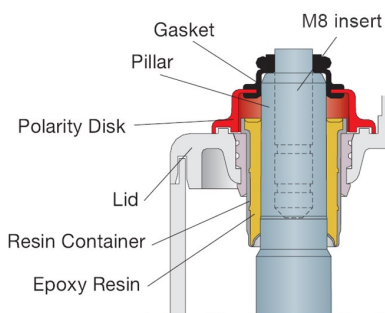
Standard and Compliance

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

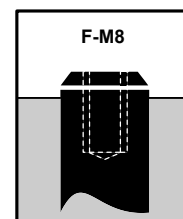




Dimension figure



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)						
2TS060600	6 OPzS 600	2	664	680	902	147	208	695	157	46.0	12.0	1	0.44	4350	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	265	263	254	244	227	197	172	155	124	105	93.6	69.3	59.2	32.8	
1.87	289	286	275	265	246	213	185	166	132	112	98.3	72.8	62.3	34.3	
1.85	313	309	296	286	265	228	198	177	140	118	103	76.2	65.3	35.7	
1.83	347	341	325	312	289	245	211	187	147	123	107	77.8	66.4	36.4	
1.80	398	388	368	352	325	271	232	202	156	129	112	80.2	68.0	37.4	
1.75	480	462	437	416	381	306	258	220	167	136	116	83.0	70.0	38.4	
1.70	562	535	507	479	433	337	279	233	173	139	118	84.3	70.7	39.1	
1.65	643	605	576	541	482	364	294	243	177	141	119	86.5	71.4	39.4	

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	434	434	426	410	384	336	301	274	227	197	179	134	114	65.1	
1.87	521	519	502	484	452	392	345	311	252	215	192	143	122	68.5	
1.85	579	575	553	533	497	430	375	336	268	227	201	149	128	70.7	
1.83	635	627	600	577	536	459	398	354	280	235	206	152	130	71.9	
1.80	718	703	670	643	596	503	434	380	296	246	215	156	132	73.7	
1.75	842	818	777	743	685	560	479	410	314	257	221	160	136	75.4	
1.70	961	923	879	835	764	608	512	431	325	262	224	162	137	76.6	
1.65	1065	1015	976	922	834	648	534	449	332	265	226	166	138	77.1	

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
2TS060600	6 OPzS 600	1.85	754	828	890	891	893	896	908
		1.80	762	836	899	900	902	905	917

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

