



GERMANY TECHNOLOGY

6 OPzS 300

(2V-316AH @ 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.

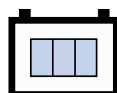
**PROVEN HIGH RELIABILITY ENERGY
STORAGE FOR CRITICAL APPLICATION**

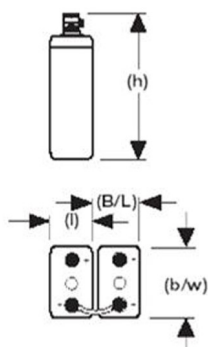
Standard and Compliance

DIN 40736 part 1

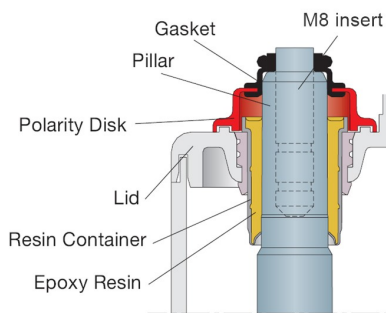
DIN 40737 part 2

IEC 896 part 1

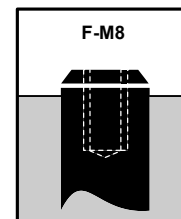




Dimension figure



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)						
2TS060300	6 OPzS 300	2	312	316	440	147	208	405	157	25.0	6.00	1	0.53	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	180	177	166	158	144	115	96.9	84.0	65.3	53.7	46.3	33.0	27.6	14.9
1.87	198	194	181	172	156	123	103	88.9	69.0	56.6	48.6	34.5	29.0	15.6
1.85	215	210	195	185	167	130	109	93.7	72.6	59.4	50.9	35.9	30.4	16.3
1.83	241	231	215	201	180	136	113	97.3	75.2	61.4	52.5	36.5	30.9	16.7
1.80	281	268	245	227	199	146	120	103	79.0	64.3	54.9	37.4	31.6	17.4
1.75	343	319	290	263	226	158	127	108	82.6	67.0	57.1	39.0	32.6	17.8
1.70	403	366	325	292	247	166	132	111	84.8	68.4	58.0	39.3	32.9	18.0
1.65	458	407	355	315	261	171	134	113	86.0	69.3	58.6	39.4	33.0	18.1

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	288	288	277	262	250	207	177	156	122	102	89.1	64.8	53.3	29.7
1.87	353	350	329	311	288	230	194	169	132	109	94.9	68.0	57.0	31.2
1.85	397	391	364	345	313	244	206	178	139	114	98.8	70.2	59.5	32.2
1.83	442	429	397	372	334	255	213	184	143	118	102	71.2	60.3	33.0
1.80	507	486	447	414	365	270	224	193	150	123	106	72.6	61.5	34.2
1.75	603	565	516	469	407	289	235	202	156	127	109	75.3	63.1	35.0
1.70	689	631	564	509	435	300	242	205	159	129	110	75.7	63.6	35.2
1.65	762	684	601	538	452	306	244	208	161	130	111	75.7	63.6	35.2

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
2TS060300	6 OPzS 300	1.85	386	414	433	435	436	438	443
		1.80	390	418	437	439	440	442	447

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

