

RID 7 OPzS700 / 2V

TECHNICAL INFORMATION:

- 2 Voltage (V)
- 798 Capacity C10 (Ah)
- $C_{10}/10h = 79,8 A$ Discharge current
- 1,80 V Final discharge voltage/cell
- $1,24 \pm 0,01 kg/l$ at 20°C Nominal S.G. of electrolyte
- 20°C Rated temperature
- $20 \pm 1 Nm$ Specified torque for poll screws
- 0,38 mOm Internal resistance
- 5280 A Short circuit current
- < 2% per month at 20°C Self-discharge
- 210x191x711 LxWxH (mm)
- EN IEC 62485-2 Ventilation requirement
- 62 kg $\pm 5\%$ Total Weight (kg)
- DIN 40736-1 DIN Marking

CHARGING:

- I max without limitation IU - characteristic
- U = 2,23 V/cell +- 1% Float charge
- U = 2,35 to 2,40 V/cell Boost charge
- $\Delta U/\Delta T = - 0,004 V/K$ Temp. Correction factor

DESIGN:

- Positive electrode: **Tubular plate with a nonwoven polyester gauntlet and solid grids in corrosion resistant LA-PbSbSe alloy**
- Negative electrode: **Pasted type with long-life expander material**
- Separation: **Micro porous separator**
- Electrolyte: **Sulphuric acid with a density of 1,24 kg/l**
- Container: **high impact transparent SAN with ABS lid in grey color**
- Plugs: **Ceramic plugs according to DIN 40740**
- Pole: **M10 brass insertion**
- Pole sealing: **100% gas and electrolyte tight sliding pole**
- Connectors: **Flexible insulated copper cables, with cross-section of 35 mm²**
- Type of protection: **IP 25 regarding DIN 40050, touch protected according to VBG 4**

MAINTENANCE:

- Every 6 months: **Check battery voltage, pilot cells voltage, temperature**
- Every 12 months: **Check and record battery and cells voltages and temperatures#**

OPERATIONAL DATA:

- Operational temperature: **-20°C to 55°C;**
- Recommended operational temperature: **10°C to 30°C**
- Design life: **20 years at 20°C; 10 years at 30°C; 5 years at 40°C**
- Maintenance free: **no topping up water during operational life**
- EN 60896-11 cycles: **> 1500**
- Transport: **No dangerous goods during air, sea and land transport**

DISCHARGE CHARACTERISTICS:

- Reference temperature: **20°C**
 - Initial capacity: **100%**
 - Depth of discharge (DOD): **up to 80%***
- * Deep discharges more than 80% DOD or discharges beyond final discharge voltages (dependent on discharge current) should be avoided



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Discharge at constant current [A] at 20°C

Cells [V]	15 min	30 min	1h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1,65 V	707	585	441	294	221	179	154	130	107	89,2	49,3
1,70 V	653	540	407	272	204	166	142	121	99,1	82,4	45,6
1,75 V	572	481	380	259	199	163	138	118	98,1	81,3	44,8
1,80V	477	416	334	240	189	157	135	115	95,7	79,8	44,1
1,83 V	403	349	301	223	177	149	128	111	92,0	77,8	43,0
1,87 V	317	300	255	196	159	135	117	102	84,5	72,9	41,6
1,90 V	242	235	218	171	139	119	103	92,3	76,2	66,5	40,1

Discharge at constant power [W] at 20°C

Cells [V]	15 min	30 min	1h	2 h	3 h	4 h	5 h	6 h	8 h	10 h	20 h
1,65 V	1208	1029	784	532	405	332	287	245	202	177	94
1,70 V	1134	962	735	497	377	308	267	227	187	156	88
1,75 V	1019	868	692	479	371	305	259	224	187	155	87
1,80V	856	760	615	446	354	295	255	220	183	153	86
1,83 V	742	647	561	419	335	283	244	212	178	150	84
1,87 V	596	567	484	374	305	261	227	197	165	143	82
1,90 V	460	449	418	330	270	231	200	176	149	131	80