

## RID 9 OPzS900 / 2V

### TECHNICAL INFORMATION:

- 2 Voltage (V)
- 1025 Capacity C10 (Ah)
- $C_{10}/10h = 102,5 A$  Discharge current
- 1,80 V Final discharge voltage/cell
- $1,24 \pm 0,01 \text{ kg/l}$  at 20°C Nominal S.G. of electrolyte
- 20°C Rated temperature
- $20 \pm 1 \text{ Nm}$  Specified torque for poll screws
- 0,29 mOm Internal resistance
- 6948 A Short circuit current
- < 2% per month at 20°C Self-discharge
- 210x191x711 LxWxH (mm)
- EN IEC 62485-2 Ventilation requirement
- 77 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
- $\Delta U/\Delta T = - 0,004 \text{ V/K}$  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 mm<sup>2</sup>**
- 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	903,5	750,4	565,1	377,5	284,5	230,9	198,4	168,4	138,1	115,1	63,5
1,70 V	832,5	691,4	520,7	347,8	262,1	212,8	182,8	155,1	127,3	106,1	58,5
1,75 V	728,6	615,6	485,8	332,5	255,5	209,2	177,1	152,1	125,5	104,7	57,3
1,80V	613,4	532,0	427,7	307,4	242,2	201,0	172,9	148,4	122,9	102,6	56,4
1,83 V	514,0	469,8	385,4	286,9	227,3	190,9	163,8	141,5	118,0	99,6	55,3
1,87 V	404,6	383,9	326,5	251,9	204,1	172,8	150,7	130,1	108,4	93,3	53,4
1,90 V	311,0	302,9	279,8	219,9	178,9	152,3	132,1	118,5	97,8	85,7	51,5

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	1545	1321	1006	683	521	428	370	316	260	228	121
1,70 V	1445	1231	940	637	484	396	342	292	241	201	112
1,75 V	1298	1111	885	613	476	392	334	288	239	200	112
1,80V	1110	971	787	572	455	379	328	283	235	197	110
1,83 V	947	872	719	538	430	363	313	272	228	193	109
1,87 V	761	725	619	481	391	334	292	252	211	182	106
1,90 V	592	578	537	424	347	296	257	226	192	169	102