

RID 16 OPzS2000 / 2V

TECHNICAL INFORMATION:

- 2 Voltage (V)
- 2185 Capacity C10 (Ah)
- $C_{10}/10h = 205 A$ Discharge current
- 1,80 V Final discharge voltage/cell
- 1,24 ± 0,01 kg/l at 20°C Nominal S.G. of electrolyte
- 20°C Rated temperature
- 20±1 Nm Specified torque for poll screws
- 0,17 mOm Internal resistance
- 12042 A Short circuit current
- < 2% per month at 20°C Self-discharge
- 212x397x837 LxWxH (mm)
- EN IEC 62485-2 Ventilation requirement
- 160 kg ±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	1820	1578	1197	837	638	519	450	386	315	257	145
1,70 V	1605	1391	1056	738	562	458	397	340	278	227	128
1,75 V	1313	1191	961	697	541	447	385	328	270	224	126
1,80V	1083	1014	846	636	503	421	365	316	261	219	123
1,83 V	907	864	757	582	466	392	343	300	249	210	116
1,87 V	710	681	633	497	406	349	308	272	227	194	114
1,90 V	528	517	500	433	356	311	271	242	200	172	109

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	3112	2777	2131	1515	1167	963	839	723	593	510	277
1,70 V	2786	2478	1907	1351	1038	853	743	641	525	430	246
1,75 V	2340	2148	1751	1286	1008	837	726	620	513	429	246
1,80V	1959	1851	1558	1185	944	793	692	603	499	419	241
1,83 V	1671	1603	1411	1092	883	746	656	576	481	406	229
1,87 V	1334	1286	1199	949	779	674	596	528	441	379	224
1,90 V	1006	986	959	835	691	606	528	461	393	340	217