

RID 15 OPzS1875 / 2V

TECHNICAL INFORMATION:

- 2 Voltage (V)
- 2050 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
- 0,23 mOm Internal resistance
- 11289 A Short circuit current
- < 2% per month at 20°C Self-discharge
- 212x397x837 LxWxH (mm)
- EN IEC 62485-2 Ventilation requirement
- 156 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	1706	1479	1122	785	598	487	422	361	295	241	136
1,70 V	1505	1304	990	692	527	429	372	319	260	213	120
1,75 V	1231	1117	901	654	507	419	361	307	253	210	118
1,80V	1015	950	793	596	472	394	342	297	245	205	116
1,83 V	850	810	709	545	437	368	322	281	233	197	109
1,87 V	665	639	593	466	381	328	288	255	212	182	107
1,90 V	495	485	469	406	334	292	254	227	188	162	102

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	2918	2603	1998	1420	1094	903	786	678	556	478	260
1,70 V	2612	2323	1787	1266	973	800	697	601	492	404	231
1,75 V	2194	2014	1641	1206	945	784	680	582	481	402	230
1,80V	1837	1736	1461	1111	885	743	648	565	468	393	226
1,83 V	1567	1503	1323	1024	828	700	615	540	451	380	214
1,87 V	1251	1206	1124	889	730	632	559	495	414	355	210
1,90 V	943	925	899	783	648	568	495	432	368	318	203