

## RID 12 OPzS1200 / 2V

### TECHNICAL INFORMATION:

- 2 Voltage (V)
- 1365 Capacity C10 (Ah)
- $C_{10}/10h = 114 A$  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
- 8814 A Short circuit current
- < 2% per month at 20°C Self-discharge
- 210x275x711 LxWxH (mm)
- EN IEC 62485-2 Ventilation requirement
- 93 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 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	1199	999	752	503	379	308	268	225	185	154	85
1,70 V	1100	917	690	462	348	283	246	207	170	141	78
1,75 V	963	816	644	442	340	279	236	202	167	140	77
1,80V	811	705	568	409	323	268	230	198	164	137	75
1,83 V	680	623	511	381	302	254	218	189	157	133	74
1,87 V	536	509	433	335	272	231	201	174	145	125	71
1,90 V	400	389	365	293	238	204	176	158	130	114	69

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	2050	1758	1339	911	694	572	499	423	348	305	162
1,70 V	1910	1633	1247	846	642	527	460	390	320	268	150
1,75 V	1716	1472	1172	815	634	522	444	383	317	266	149
1,80V	1468	1288	1045	761	606	505	435	377	313	262	148
1,83 V	1253	1155	953	716	573	483	417	363	303	258	145
1,87 V	1007	960	820	639	521	445	389	337	282	244	141
1,90 V	762	743	716	566	462	396	343	302	255	225	136