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STAND BY BULL

Cell OPzS: Type 4 OPzS 200 → 24 OPzS 3000

Banner Stand by Bull Cell OPzS batteries are encapsulated, lead batteries, which have been developed for capacitive discharge. The individual cells are characterised by high levels of cyclical resistance and a long service life. They are mainly employed in telecommunications systems, d.c. supply plants, industrial plants, emergency power supply units in public buildings and medical units, as well as for energy storage in solar plants.

Features

- Individual cells, 2 V rated voltage
- Compensation charge voltage of 2.23 V/cell
- Corrosion-resistant terminal design
- Recommended temperature range of 20°C (max. -10°C to +40°C)
- Water refilling intervals of approx. 3 years in stand-by parallel operation with ceramic plugs
- Long service life even under cyclical loads
- 15-year design life in stand-by operation mode

Design

- Positive electrode
Tubular plate < 2% Sb content
- Negative electrode
Pasted grid plate with long-term spreading material
- Separation
Microporous, synthetic cutter
- Casing material
Halogen-free styroacrylnitrile (SAN)
- Electrolyte
Diluted sulphuric acid $d = 1,24 \text{ kg/l}$
- Terminal design
Safety terminal
- Terminal screws
Metric steel screws with sprayed on plastic head and measurement point
- Cell connections
Fully insulated, flexible copper cable connectors
- Cell plug
Standard plugs, ceramic plugs as an option, special designs on request
- DIN 40 736 product standard
- VDE 0510 Part 2 application standard





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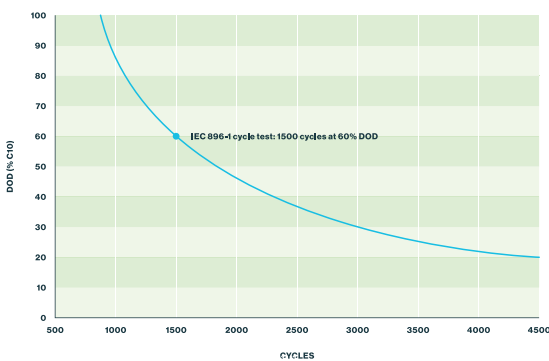
Technical details

Type	Rated voltage in V	Capacity in Ah				Dimensions			Ri mOhm	Ik v A	Terminal no.	Terminal-type	Acid 1.24 kg/l.	Total weight kg
		C10 1,80V/Z.	C3 1,75V/Z.	C1 1,65V/Z.	C100 1,85V/Z.	Length mm	Width mm	Height* mm						
4 OPzS 200	2	225	180	124	250	105	208	392	0,89	2.150	2	M 10	4,8	17,7
5 OPzS 250	2	280	222	153	312	126	208	392	0,74	2.650	2	M 10	5,8	21,3
6 OPzS 300	2	335	263	181	375	147	208	392	0,63	3.200	2	M 10	6,9	25,2
5 OPzS 350	2	400	307	222	437	126	208	509	0,67	2.850	2	M 10	7,4	27,4
6 OPzS 420	2	480	367	259	525	147	208	509	0,57	3.450	2	M 10	9,0	32,2
7 OPzS 490	2	560	431	295	612	168	208	491	0,50	4.050	2	M 10	10,2	36,9
6 OPzS 600	2	690	508	369	750	147	208	681	0,47	4.300	2	M 10	9,0	41,1
8 OPzS 800	2	920	685	507	1000	212	193	682	0,33	5.700	4	M 10	15,4	60,4
10 OPzS 1000	2	1.150	850	625	1250	212	235	684	0,27	7.100	4	M 10	19,1	73,6
12 OPzS 1200	2	1.380	1015	738	1500	212	277	683	0,23	8.550	4	M 10	22,9	86,7
12 OPzS 1500	2	1650	1203	827	1875	212	277	834	0,23	8.450	4	M 10	28,5	105,6
16 OPzS 2000	2	2200	1604	1153	2500	215	400	809	0,17	12.150	6	M 10	42,4	146,2
20 OPzS 2500	2	2750	2003	1438	3125	214	489	807	0,13	15.200	8	M 10	51,3	178,8
24 OPzS 3000	2	3.300	2406	1684	3750	214	578	809	0,11	18.300	8	M 10	62,0	209,1

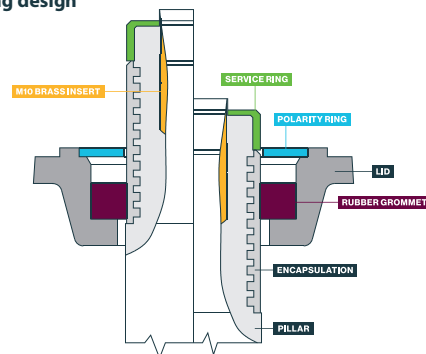
The given electrical values are valid for loads in a fully charged condition and an ambient temperature of 20°C.

* Height including connector.

Depth of discharge vs. Cycles



Pillar sealing design



Installation

The cells are suitable for all standard installations on racks or in cabinets. On request, we supply special racks for zones subject to earthquakes. The safety regulations according to EN 50272-2 are to be observed, particularly those relating to ventilation. Charging must be adjusted to the given voltage limits.

All figures relating to dimensions and weight are subject to the standard production tolerances.

The electrical values are approximate. Our products are subject to ongoing development, therefore we retain the right to make changes without an obligation to inform.

Presented by:

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THE POWER COMPANY