

OPzS Series

A Robust Tubular battery for standby and deep cycling applications

Technical characteristics

Positive Electrode	: Tubular plate with low antimony lead alloy.
Negative Electrode	: Pasted grid plate.
Separator	: Microporous ribbed separator.
Electrolyte	: Diluted sulphuric acid 1.24 kg/lt @ 20°C
Container	: High impact, transparent SAN with electrolyte level marks Max/Min
Vent plug	: Splash proof ceramic filter plugs for flame arresting and easy gassing
Terminals	: Leak proof pole with brass insert
Connectors	: Bolt-on type copper connector

Compliance with standards

- ✓ DIN 40736 - 1
- ✓ IEC 60896 - 11
- ✓ IEC 61427
- ✓ DIN 43539 - P5 (for deep discharge recovery)

Product specifications

✓ Long service life	:	20 years at 20°C
✓ Cycle life	:	1500 cycles at 80%DOD
✓ Self discharge	:	< 3% per month at 20°C
✓ Float Voltage	:	2.23 Volts per cell
✓ Boost Voltage	:	2.4 Volts per cell
✓ Recommended operating Temperature range	:	0°C to +55°C (preferred is 20°C)

Product Features

1. Low gassing and minimum maintenance due to low antimony alloy
2. Low self discharge rate
3. Transparent container - maintenance becomes easy
4. High pressure Die-cast tubular positive plates for long life
5. Large electrolyte reserve for extended water topping up intervals
6. Deep discharge capability
7. Excellent cycle life for regular charge/discharge operations
8. Insulated Copper connectors for safety operation
9. Dry charged cells (offered optional) - can be stored for prolonged periods



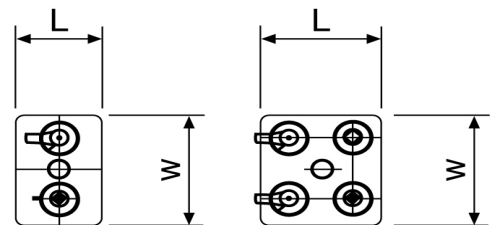
Applications

- ⚡ Telecommunications
- ⚡ Power generation
- ⚡ Power distribution
- ⚡ Signaling & Controlling systems
- ⚡ Emergency Lighting
- ⚡ Data Processing Systems
- ⚡ Wind & Solar Energies
- ⚡ UPS

Product Specifications

Model as per DIN - 40736	Nominal Capacity in Ah (C10 to 1.80 ECV) at 20°C	Discharge current in Amps to 1.80ECV				Overall cell Dimensions (mm)				Weight (without Acid) in Kg	Weight (Incl.Acid) in Kg	Approx. Qty of acid (Initial filling) in Ltrs
		8Hr	5Hr	3Hr	1Hr	Length	Width	Height-1 (Up to Lid)	Height-2 (Up to vent plug)			
2 OPzS 100	113	14	19	28	50	103	206	355	430	9.3	14.4	4.2
3 OPzS 150	170	20	28	42	75	103	206	355	430	11.9	16.3	3.6
4 OPzS 200	226	27	38	55	100	103	206	355	430	13.3	17.4	3.3
5 OPzS 250	283	34	47	69	125	124	206	355	430	15.9	20.8	4.0
6 OPzS 300	340	41	57	83	149	145	206	355	430	18.4	24.3	4.8
5 OPzS 350	394	47	65	96	173	124	206	469	545	21.2	28.0	5.6
6 OPzS 420	473	56	78	115	207	145	206	469	545	24.6	32.7	6.6
7 OPzS 490	552	66	92	135	242	166	206	469	545	28.2	37.6	7.7
6 OPzS 600	680	79	109	158	280	145	206	646	720	33.5	44.7	9.2
7 OPzS 700	793	92	127	185	327	210	191	646	720	42.9	58.5	12.8
8 OPzS 800	907	105	145	211	374	210	191	646	720	46.6	61.1	11.9
9 OPzS 900	1020	118	163	237	420	210	233	646	720	52.7	71.9	15.7
10 OPzS 1000	1133	132	181	264	467	210	233	646	720	56.3	74.4	14.8
11 OPzS 1100	1247	145	199	290	514	210	275	646	720	62.8	85.5	18.6
12 OPzS 1200	1360	158	217	317	561	210	275	646	720	66.3	87.9	17.7

- ▶ Nominal Capacities are indicated at reference temperature of 20°C.
- ▶ Intermediate models available on request
- ▶ Few models in above range are under development and will be offered with long delivery time.
- ▶ Data in this document are subject to change without notice and become contractual only after written confirmation.



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| 2 OPzS 100 | 5 OPzS 350 | 7 OPzS 700 |
| 3 OPzS 150 | 6 OPzS 420 | 8 OPzS 800 |
| 4 OPzS 200 | 7 OPzS 490 | 9 OPzS 900 |
| 5 OPzS 250 | 6 OPzS 600 | 10 OPzS 1000 |
| 6 OPzS 300 | | 11 OPzS 1100 |
| | | 12 OPzS 1200 |

HBL®

HBL Power Systems Limited

8-2-601, Road No.10, Banjara Hills, Hyderabad - 500034, Telangana, INDIA

E-mail : leadbatteries@hbl.in, contact@hbl.in, website : www.hbl.in,