

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 PE separator.
Electrolyte	: Diluted sulphuric acid 1.24 kg/lit @ 20°C
Container	: High impact, transparent SAN with electrolyte level marks Max/Min
Vent plug	: Safety flame arrester vent plug
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 - 5

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 terminals and insulated connectors for safety operation
9. Dry charged cells - can be stored for prolonged periods



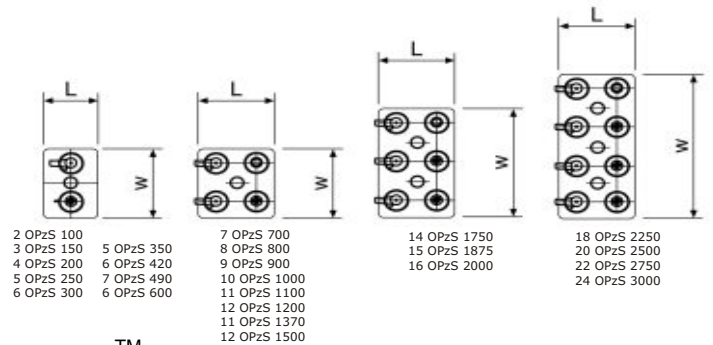
Applications

- ⚡ Telecommunications
- ⚡ Power generation
- ⚡ Substation
- ⚡ Signaling, Control & Regulating 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	Overall cell Dimensions (mm)				Weight (with out Acid) in Kg ±5%	Weight (Incl.Acid) in Kg ±5%	Approx Qty of acid 1.22 sp.gr (Initial filling)
		Length ±5	Width ±5	Height-1 (Up to Lid) ±5	Height-2 (Up to vent plug) ±5			
2 OPzS 100	100	103	206	355	430	9.3	14.4	4.2
3 OPzS 150	150	103	206	355	430	11.9	16.3	3.6
4 OPzS 200	200	103	206	355	430	13.3	17.4	3.3
5 OPzS 250	250	124	206	355	430	15.9	20.8	4.0
6 OPzS 300	300	145	206	355	430	18.4	24.3	4.8
5 OPzS 350	350	124	206	469	545	21.2	28.0	5.6
6 OPzS 420	420	145	206	469	545	24.6	32.7	6.6
7 OPzS 490	490	166	206	469	545	28.2	37.6	7.7
6 OPzS 600	600	145	206	646	720	33.5	44.7	9.2
7 OPzS 700	700	210	191	646	720	42.9	58.5	12.8
8 OPzS 800	800	210	191	646	720	46.6	61.1	11.9
9 OPzS 900	900	210	233	646	720	52.7	71.9	15.7
10 OPzS 1000	1000	210	233	646	720	56.3	74.4	14.8
11 OPzS 1100	1100	210	275	646	720	62.8	85.5	18.6
12 OPzS 1200	1200	210	275	646	720	66.3	87.9	17.7
11 OPzS 1375	1375	210	275	796	870	76.8	105.6	23.6
12 OPzS 1500	1500	210	275	796	870	81.4	108.9	22.5
14 OPzS 1750	1750	214	399	772	846	99.9	142.9	35.2
15 OPzS 1875	1875	214	399	772	846	105.4	147.0	34.1
16 OPzS 2000	2000	214	399	772	846	110.0	150.3	33.0
18 OPzS 2250	2250	212	487	772	846	127.9	180.1	42.8
20 OPzS 2500	2500	212	487	772	846	137.3	187.0	40.7
22 OPzS 2750	2750	212	576	772	846	152.4	214.1	50.5
24 OPzS 3000	3000	212	576	772	846	161.6	220.6	48.3

- ▶ 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.



HBL Power Systems Limited

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

website : www.hbl.in
e-mail : contact@hbl.in