



ESPEX

OPzS *Tubular Batteries*

ESPEX OPzS Vented Tubular Lead-Acid cells

High Reliability and Long Life in critical operation under wide range of temperature, for both Float and Deep-cycling.

Application in:

- ◆ IT & Telecom
- ◆ Power Stations and sub-stations
- ◆ Railway / Airport signalling
- ◆ Renewable Energy storage
- ◆ Emergency lighting
- ◆ Automation

The Ultimate in Standby Power

General Technical Specifications

Cell Type	Rated Voltage (V)	Terminal Pairs	AH Capacity to 1.80V at 20°C at the rate of		Overall Cell Dimensions			Typical Weight (Kg)	Electrolyte Volume (Litres)
			10Hr	Nominal DIN 40736	Length (mm)	Width (mm)	Height (mm)		
4OPzS200	2	1	213	200	103	206	425	17.4	3.6
5OPzS250	2	1	264	250	124	206	425	20.9	4.7
6OPzS300	2	1	316	300	145	206	425	24.5	5.5
5OPzS350	2	1	380	350	124	206	542	27.2	6.4
6OPzS420	2	1	460	420	145	206	542	32.5	7.4
7OPzS490	2	1	540	490	166	206	542	37.0	9.0
6OPzS600	2	1	650	600	145	206	716	46.5	10.3
7OPzS700	2	2	810	700	210	191	716	59.0	14.3
8OPzS800	2	2	876	800	210	191	716	63.0	14.0
9OPzS900	2	2	1030	900	210	233	716	73.0	17.7
10OPzS1000	2	2	1100	1000	210	233	716	77.0	17.3
11OPzS1100	2	2	1250	1100	210	275	716	87.0	20.0
12OPzS1200	2	2	1340	1200	210	275	716	91.0	19.7
11OPzS1375	2	2	1580	1375	210	275	865	111.0	27.5
12OPzS1500	2	2	1670	1500	210	275	865	120.0	27.4
13OPzS1625	2	3	1809	1625	214	399	842	143.0	40.3
14OPzS1750	2	3	1948	1750	214	399	842	150.0	39.7
15OPzS1875	2	3	2088	1875	214	399	842	155.0	38.8
16OPzS2000	2	3	2227	2000	214	399	842	160.0	38.4
18OPzS 2250	2	4	2505	2250	212	487	842	188.0	47.7
20OPzS2500	2	4	2783	2500	212	487	842	203.0	50.8
22OPzS2750	2	4	3062	2750	212	576	842	222.0	57.5
24OPzS3000	2	4	3340	3000	212	576	842	230.0	56.0

Construction Features

- ◆ Tubular positive plate made from High pressure die-cast spines encased in select resilient multi-tube gauntlet
- ◆ Innovative bottom bar with space that allows some downward growth of the spines
- ◆ Negative plates flat pasted grids
- ◆ Cell box-Transparent SAN
- ◆ Cell lid-Opaque SAN
- ◆ Separators select microporous
- ◆ Poles of unique design that effectively prevents acid leakage and pillar corrosion over the cell's lifetime. Female brass insert pole

for bolt-on connection. Plastic encapsulation over lead post.

- ◆ Vent plug selection of Normal / Ceramic / Catalyst
- ◆ Electrolyte full charge specific gravity 1.240 +/-0.010 at 20°C
- ◆ Inter-cell Connectors option of insulated solid copper or copper cable.

Standards compliant

- ◆ DIN 40736-1
- ◆ IEC 60896-1
- ◆ Manufacturing Plant certified
- ◆ ISO 9001:2000
- ◆ ISO 14001

Operation & Maintenance

- ◆ May be mounted on steel or wood racks
- ◆ Float voltage 2.23V / cell at 25°C
- ◆ Working temperature 0—55°C but recommended 10—35°C
- ◆ Batteries should be installed in conformance to EN 50272-2 as well as the respective country standards

Life Expectancy

- ◆ Up to 18 years In Float operation at 20°C
- ◆ Can be cycled up to 1500 times to 80% depth of discharge, at 20°C



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