



OPzS Series



Tubular Flooded Batteries

Classic OPzS batteries have been proven energy suppliers for decades, which convince in robustness, reliability and extremely long design- or cycle life. OPzS is a flooded Lead Acid battery that adopts Tubular Plate technology to offer high reliability and performance. OPzS is designed and manufactured according to DIN40736-2/IEC60896-11 standards and with die-casting positive spine and patent formula of active material. OPzS series batteries offer 400% more cyclic life than the standby series. It is suitable for solar and wind renewable energy storage, traction etc. OPzS series is the best choice for energy system in high altitude area.

Product Features

- Low maintenance due to optimised alloy and large electrolyte reserve
- Tubular plates in block and single cell version – most robust design
- Excellent standby and cycling behavior – long life
- Completely recyclable – low CO2 footprint
- 20 years design life at 20 ° C ambient temperature (80 % remaining capacity from C10)
- Wide operating temperature range from -40° C to 60° C
- Tubular positive plate with prolonged cycle life
- Lead Calcium die cast grid with improved corrosion resistance capability
- Low self-discharge rate and long shelf life
- Excellent deep discharge recovery capability
- Very high operational reliability under rough operating conditions
- Container made from high quality transparent or translucent plastics
- Also available in dry charged condition with separate electrolyte
- Low gassing (EN 50272-2) thanks to low antimony alloy:< 2% for cells; < 3% for blocks
- Designed in accordance with IEC 60896-11, DIN 40736 and DIN 40737 T3
- Manufactured in Europe in our ISO 9001 certified production plants

Construction

- Positive Plates: Robust tubular plates consisting of Pb-Ca-Sn alloy, optimized for high corrosion resistance, offer an extreme high cycleing expectancy
- Negative Plates: Grid plate construction consisting of lead calcium alloy
- Separator: Microporous and robust PVC-SiO2 separator, for positive and negative plates and optimized for low internal resistance
- Container: ABS (UL94-HB), Flammability resistance of UL94-V1 can be available upon request
- Terminal Poles: Screw connection for easy and safe assembly and maintenance-free connection with excellent conductivity
- Electrolyte: diluted sulphuric acid $d_N = 1.24 \text{ kg/l}$
- Valves: Release gas in case of excess pressure and protects the cell against atmosphere, reasonable open and Dose valve pressure, high reliable on performance.

Standards

- IEC 60896-21/22:2004;
- IEC 61247-2014;
- DIN 43539-t5:1984;
- DIN 40742-1999;
- GB/T 22473-2008;
- Passed ISO9001,ISO4001
- OHSA18001,CE,UL and Golden Sun Certification

Applications

- Security Systems
- Telecom
- Electric Utilities
- UPS systems
- Control Equipment
- Photovoltaic Systems
- Solar Power Systems
- Medical Equipment
- Renewable Energy System



Main Parameters Table

Model	Nominal Voltage (V)	Capacity (Ah)	Dimension (mm)				Net Weight kgs	Gross Weight kgs	Terminal
			Length	Width	Height	Total Height			
4OPzS200	2	200	103	206	355	410	12.8	17.5	M8
5OPzS250	2	250	124	206	355	410	15.1	20.5	M8
6OPzS300	2	300	145	206	355	410	17.5	24	M8
5OPzS350	2	350	124	206	471	526	19.8	27	M8
6OPzS420	2	420	145	206	471	526	23	32	M8
7OPzS490	2	490	166	206	471	526	26.2	38	M8
6OPzS600	2	600	145	206	646	701	32.6	47	M8
8OPzS800	2	800	191	210	646	701	45	64	M8
10OPzS1000	2	1000	233	210	646	701	54	78	M8
12OPzS1200	2	1200	275	210	646	701	63.6	92	M8
12OPzS1500	2	1500	275	210	773	828	81.7	112	M8
16OPzS2000	2	2000	399	210	773	828	119.5	150	M8
24OPzS2500	2	2500	487	212	771	826	152	204	M8
24OPzS3000	2	3000	576	212	772	806	170	230	M8

