

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 plastiUP
- 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

Construction

- IEC 60896-11, DIN 40736 and DIN 40737 T3 Four ISO 9001 certified production plants
- 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-Si02 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 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

Standards

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

Main Parameters Table

| Model | Nominal Voltage (V) | Capacity (Ah) | Dimension (mm) | | | | Net Weight | Gross Weight | Terminal |
|------------|---------------------------|------------------|----------------|-------|--------|-----------------|---------------|-----------------|----------|
| | | | Length | Width | Height | Total Height | kgs | kgs | Terminai |
| 40PzS200 | 2 | 200 | 103 | 206 | 355 | 410 | 12.8 | 17.5 | M8 |
| 5OPzS250 | 2 | 250 | 124 | 206 | 355 | 410 | 15.1 | 20.5 | M8 |
| 60PzS300 | 2 | 300 | 145 | 206 | 355 | 410 | 17.5 | 24 | M8 |
| 5OPzS350 | 2 | 350 | 124 | 206 | 471 | 526 | 19.8 | 27 | M8 |
| 60PzS420 | 2 | 420 | 145 | 206 | 471 | 526 | 23 | 32 | M8 |
| 70PzS490 | 2 | 490 | 166 | 206 | 471 | 526 | 26.2 | 38 | M8 |
| 60PzS600 | 2 | 600 | 145 | 206 | 646 | 701 | 32.6 | 47 | M8 |
| 80PzS800 | 2 | 800 | 191 | 210 | 646 | 701 | 45 | 64 | M8 |
| 100PzS1000 | 2 | 1000 | 233 | 210 | 646 | 701 | 54 | 78 | M8 |
| 120PzS1200 | 2 | 1200 | 275 | 210 | 646 | 701 | 63.6 | 92 | M8 |
| 120PzS1500 | 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 |
| 240PzS3000 | 2 | 3000 | 576 | 212 | 772 | 806 | 170 | 230 | M8 |



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Applications

Telecom

Security Systems

Electric Utilities

Control Equipment

Medical Equipment

Renewable Energy

Photovoltaic Systems

Solar Power Systems

UPS systems