# OPZS Lead Selenium Tubular Plate Battery



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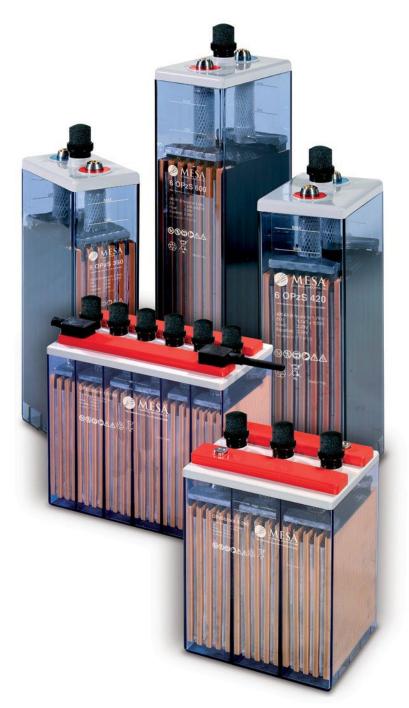
The Mesa OPzS is a range of lead selenium tubular plate lead-acid batteries in cell and block format (conforming to DIN 40736 (1) for the cells and 40737-3 and 40744 for the blocks). They are ideal for use in the broadest range of stationary DC power supply installations. The combination of lead-selenium alloy with tubular plate construction creates the longest service life lead alloy battery in the world. The OPzS has a 20-year float life, and is rated for more than 1,500 deep discharge cycles to 80% DoD. Capacity ranges from 100 to 3,200 amp-hr.

### **Applications**

- » Utility switchgear
- » Telecommunications
- » UPS units
- » Power plants & substations
- » Process control
- » Emergency backup power

### **Specifications**

- » Float Voltage: 2.23 to 2.25 VPC» Equalize Voltage: 2.35 to 2.40 VPC
- » Specific Gravity: 1.240 kg/L @ 77°F
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- » Styrene Acrylonitrile (SAN) jar & cover
- » Flame retardant UL VO 94 available upon special order





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#### Standard Accessories for OPzS Batteries

- » Battery inter-cell and inter-row connections
- » Terminal hardware
- » Hydrometer with holder and drip cup
- » Vent mounted thermometer
- » Cell numbers
- » Lifting strap

#### **Tubular Plate Design**

- » Excellent high rate performance
- » Long life with maximum reliability
- » Deep discharge capability (>1,500 cycles)
- » Stable float charge characteristics
- » Space saving footprint
- » Ideal for substation loads

#### **Clear Jars**

»Impact-resistant, clear Styrene Acrylonitrile (SAN) jars

»Provides crystal clear viewing of the cell plates, bridges and electrolyte

»Easy inspection of cell condition and electrolyte level



OPzS - Lead Selenium Tubular Plate Cells

- »Flame arresting vent caps
- »No-ox or similar grease
- »Installation and operating instructions & drawings
- »Connectors: lead-coated copper bar
- »Connection hardware: stainless steel
- »Terminals: M10 threaded copper insert

#### Robust & Compact

»Lead selenium alloy is corrosion resistant and reduces plate growth

»Leak proof, tongue-in-groove jar-cover seals

»Minimizes seal failures and container & cover cracks

»O-ring compression seals reduce leaks, connection

corrosion, and mechanical failures

»Reduced maintenance & reduced footprint

#### Optimized Connector System - B-OPzS Blocks

»Fully insulated connector with test points for ohmic and voltage measurements

»Reduces terminal connection maintenance

»External welded connections between individual cells allow for testing individual cell voltages, internal resistance or conductance, and monitoring individual cells during load testing



