

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
- » 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

- » 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

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

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

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

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



OPzS – Lead Selenium Tubular Plate Cells



B-OPzS – Lead Selenium Tubular Plate Battery Multi-Cell Blocks

