



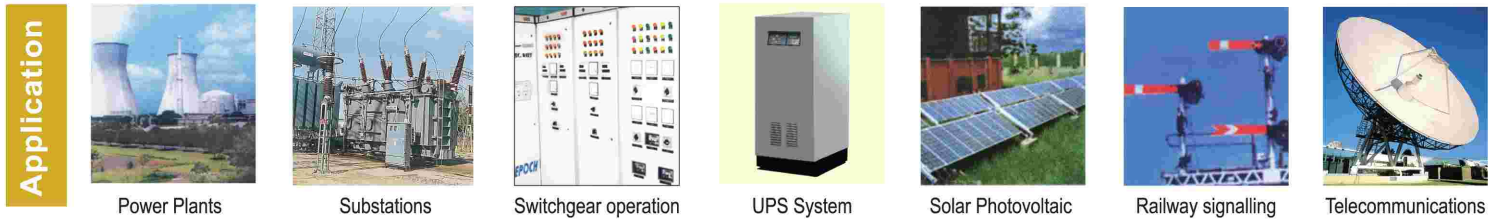
# OPZS

TUBULAR BATTERIES IN  
TRANSPARENT CONTAINERS



**EXIDE  
INDUSTRIAL**

Exide Industries Ltd. is the largest storage battery manufacturer in the country and has pioneered battery technology in India for over 60 years. Exide offers the latest series of OPzS stationary Tubular batteries in Transparent SAN containers for critical standby applications. The cells are designed to conform international specification DIN 40736.



### Superior Design & Construction

#### 1. Transparent Container :

Containers are made of high quality transparent SAN, which enables quick and easy reading of the electrolyte level and visual inspection of the cell.

#### 2. Torr Tubular :

Exide OPzS Batteries have the spines or the positive plate supports cast at 100 bar high pressure in imported Hadi machine. This ensures void free structure and uniform grain orientation. High pressure die-casting also enables production of positive spines with less than 3% antimony

alloy. Low antimony alloy in positive plate coupled with lead - calcium alloy in negative plate reduces water loss considerably in OPzS cells making it a true Low Maintenance battery. Topping up frequency is only once in 12 - 18 months.

#### 3. Special separator :

Micro-porous and resin based separators with polyester mat back bone have high porosity, low electrical resistance and high temperature stability. Its smaller average pore diameter prevents penetration short.

#### 4. Plastic encapsulated bolt-on terminals :

The corrosion-resistant bolt-on terminals with brass inserts provide better electrical performance and resistance to wear and tear of terminals.

#### 5. Vent Plugs :

Vent plugs are specially designed with ceramic dome, which filters the sprayed acid and is fire retardant.

#### 6. Insulated intercell connectors :

The intercell connector offers better conductivity. The insulation protects the connector from acid attack and eliminates accidental shorts.

**Features :** ✓ Easy monitoring ✓ Suitable for frequent discharges and high ambient temperature  
 ✓ Minimum maintenance ✓ Lower foot print ✓ 15 years life in Standby float application

### Technical Data for Exide OPzS Cells

| Type of Cell | C10 Capacity upto 1.80 Vpc. | Charging Current  |                    | Total Minimum Input during Initial Charging (Ah) | Weight +/- 5% (kg.) |             | Approx. Qty. of acid 1.220 sp gr (Litres) | Overall Cell Dimensions (+/- 3 mm) |         |         | Cell Centre (mm) | Trickle Charge Current (mA) |       |
|--------------|-----------------------------|-------------------|--------------------|--|---------------------|-------------|---|------------------------------------|---------|---------|------------------|-----------------------------|-------|
|              |                             | Starting Rate (A) | Finishing Rate (A) |  | Dry                 | Acid Filled |   | Length                             | Breadth | Height* |                  | Min                         | Max   |
|              |                             |                   |                    |  |                     |             |   |                                    |         |         |                  |                             |       |
| OPzS 100P    | 100                         | 12.0              | 6.0                | 500  | 9.3                 | 15.0        | 4.7                                       | 103                                | 206     | 430     | 112              | 100                         | 400   |
| OPzS 150P    | 150                         | 18.0              | 9.0                | 750  | 10.5                | 15.9        | 4.4                                       | 103                                | 206     | 430     | 112              | 150                         | 600   |
| OPzS 200P    | 200                         | 24.0              | 12.0               | 1000   | 14.4                | 19.2        | 3.9                                       | 103                                | 206     | 430     | 112              | 200                         | 800   |
| OPzS 250P    | 250                         | 30.0              | 15.0               | 1250   | 19.8                | 31.0        | 9.2                                       | 145                                | 206     | 546     | 153              | 250                         | 1000  |
| OPzS 300P    | 300                         | 36.0              | 18.0               | 1500   | 22.5                | 33.2        | 8.8                                       | 145                                | 206     | 546     | 153              | 300                         | 1200  |
| OPzS 350P    | 350                         | 42.0              | 21.0               | 1750   | 24.5                | 34.7        | 8.4                                       | 145                                | 206     | 546     | 153              | 350                         | 1400  |
| OPzS 420P    | 420                         | 50.4              | 25.2               | 2100   | 25.8                | 35.9        | 8.3                                       | 145                                | 206     | 546     | 153              | 420                         | 1680  |
| OPzS 500P    | 500                         | 60.0              | 30.0               | 2500   | 31.0                | 45.9        | 12.2                                      | 145                                | 206     | 721     | 153              | 500                         | 2000  |
| OPzS 600P    | 600                         | 72.0              | 36.0               | 3000   | 35.4                | 49.4        | 11.5                                      | 145                                | 206     | 721     | 153              | 600                         | 2400  |
| OPzS 700P    | 700                         | 84.0              | 42.0               | 3500   | 45.6                | 70.9        | 20.7                                      | 210                                | 233     | 721     | 220              | 700                         | 2800  |
| OPzS 800P    | 800                         | 96.0              | 48.0               | 4000   | 49.1                | 73.5        | 20.0                                      | 210                                | 233     | 721     | 220              | 800                         | 3200  |
| OPzS 900P    | 900                         | 108.0             | 54.0               | 4500   | 53.3                | 77.0        | 19.4                                      | 210                                | 233     | 721     | 220              | 900                         | 3600  |
| OPzS 1000P   | 1000                        | 120.0             | 60.0               | 5000   | 57.4                | 80.2        | 18.7                                      | 210                                | 233     | 721     | 220              | 1000                        | 4000  |
| OPzS 1125P   | 1125                        | 135.0             | 67.5               | 5625   | 65.5                | 104.5       | 32.0                                      | 210                                | 275     | 871     | 220              | 1125                        | 4500  |
| OPzS 1250P   | 1250                        | 150.0             | 75.0               | 6250   | 70.1                | 106.2       | 29.6                                      | 210                                | 275     | 871     | 220              | 1250                        | 5000  |
| OPzS 1375P   | 1375                        | 165.0             | 82.5               | 6875   | 77.6                | 112.6       | 28.7                                      | 210                                | 275     | 871     | 220              | 1375                        | 5500  |
| OPzS 1500P   | 1500                        | 180.0             | 90.0               | 7500   | 84.0                | 117.9       | 27.8                                      | 210                                | 275     | 871     | 220              | 1500                        | 6000  |
| OPzS 1625P   | 1625                        | 195.0             | 97.5               | 8125   | 96.0                | 148.3       | 42.9                                      | 214                                | 399     | 847     | 220              | 1625                        | 6500  |
| OPzS 1750P   | 1750                        | 210.0             | 105.0              | 8750   | 102.0               | 153.4       | 42.1                                      | 214                                | 399     | 847     | 220              | 1750                        | 7000  |
| OPzS 1875P   | 1875                        | 225.0             | 112.5              | 9375   | 105.5               | 155.8       | 41.2                                      | 214                                | 399     | 847     | 220              | 1875                        | 7500  |
| OPzS 2000P   | 2000                        | 240.0             | 120.0              | 10000  | 110.7               | 160.0       | 40.4                                      | 214                                | 399     | 847     | 220              | 2000                        | 8000  |
| OPzS 2250P   | 2250                        | 270.0             | 135.0              | 11250  | 131.5               | 193.4       | 50.7                                      | 212                                | 487     | 847     | 220              | 2250                        | 9000  |
| OPzS 2500P   | 2500                        | 300.0             | 150.0              | 12500  | 145.0               | 204.8       | 49.0                                      | 212                                | 487     | 847     | 220              | 2500                        | 10000 |
| OPzS 2750P   | 2750                        | 330.0             | 165.0              | 13750  | 158.5               | 231.8       | 60.1                                      | 212                                | 576     | 847     | 220              | 2750                        | 11000 |
| OPzS 3000P   | 3000                        | 360.0             | 180.0              | 15000  | 170.0               | 241.2       | 58.4                                      | 212                                | 576     | 847     | 220              | 3000                        | 12000 |

\* Overall height upto top of ceramic vent plug.

| Cell                   | Terminal Pairs |
|------------------------|----------------|
| OPzS100P to OPzS600P   | 1              |
| OPzS700P to OPzS1500P  | 2              |
| OPzS1625P to OPzS2000P | 3              |
| OPzS2250P to OPzS3000P | 4              |

### Recommended float voltage

| Temperature | Float Voltage   |
|-------------|-----------------|
| <5°C        | 2.24 ± 0.02 vpc |
| 5°C - 35°C  | 2.23 ± 0.02 vpc |
| 36°C - 45°C | 2.22 ± 0.02 vpc |

**Go For TORR TUBULAR**  
 • Spines cast in HADI machine at 100 Bar  
 • Higher reliability, longer life



\* Applied for

**Head Office :** Exide House, 59E, Chowringhee Road, Kolkata-700 020, Ph. : (033) 2283 2120/33/36/50/51/71/2238/39, Fax : (033) 2283 2632/37, **Corporate Marketing Office :** 6A Hatibagan Road, Entally, Kolkata - 700014, Ph. : (033) 2286 6158/6159, Fax : (033) 2286 6186, **Factory :** **Shamnagar :** Ph. : (033) 2581 2146/47/48/49/7342/7343, Fax : (033) 2581 3930, **Haldia :** (03224) 252140/145/296/253, Fax : (03224) 252145, **R&D Centre :** Ph. : (033) 2500 5458/5225/5660, **Central Service :** Ph. : (033) 2580 0113, Fax : (033) 2581 3930, **Ahmedabad :** (079) 6510 8207/06/05, **Bangalore :** (080) 40810800, 40810813, 40810809, **Baroda :** (0265) 2354240, **Chandigarh :** (0172) 265 4387/4553/7409 **Chennai :** (044) 2250 0726/1226/1216, **Coimbatore :** (0422) 211737/1846, **Delhi :** (011) 2362 7095/96/97/98, **Guwahati :** (0361) 220 500/119/486, **Hyderabad :** (040) 6516 3958, **Indore :** (0731) 6542293, **Jamshedpur :** (0657) 229 3022/0785, **Kochi :** (0484) 4149351/352, **Kolkata :** (033) 2284 3137/3169, **Lucknow :** (0522) 404 1895/1896/1899, **Mumbai :** (022) 2646 5283/84/5041, **Nagpur :** (0712) 253 9972/9973, **Pune :** (020) 323 04041-45.

This Catalogue is issued to provide outline information only and is not deemed to form part of an offer or contract. Our policy is one of continued improvement and we reserve the right to change details without prior notice. Visit us at <http://www.exide4u.com>

Caps Micrographics/3W/14/1/2011