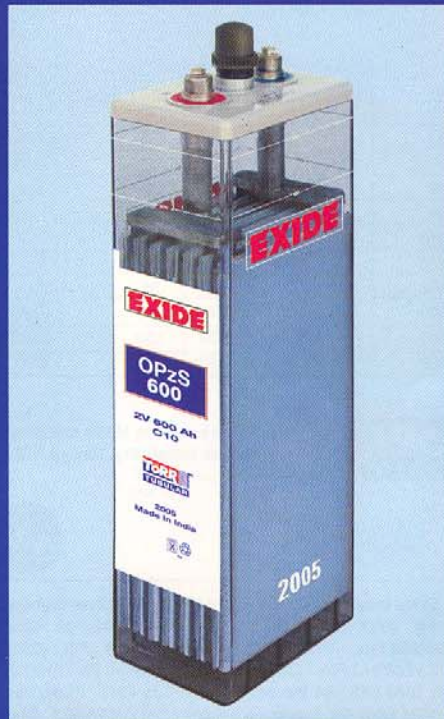




# EXIDE

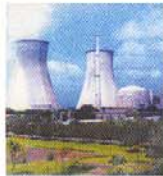
**OPzS  
TUBULAR  
BATTERIES IN  
TRANSPARENT  
CONTAINERS**



**INDUSTRIAL**

Exide Industries Ltd is the largest storage battery manufacturer in the country and has pioneered battery technology in India for over 50 years. Exide offers the latest series of OPzS type Stationary Tubular batteries in Transparent SAN containers for critical standby applications. The cells are designed to conform international specification DIN 40736.

### Application



Power Plants



Transmission & Distribution Substations



Switchgear operation



Uninterrupted-Power supply system



Solar Photovoltaic / Wind Power Systems



Railway signalling



Telecommunications

### Salient Features

**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 Tubular Batteries have the spines or the positive plate support cast at high Pressure (100 bar) in imported Hadi machine which ensures void free structure and consistent grain orientation. It protects the plate support from anodic corrosion. The positive active material is encased in an one piece, multi-tube woven gauntlet of high tensile acid-resistant polyester. The

polyester 'gauntlet' which is resin impregnated, combines high tensile strength with resilience and enables the electrolyte to penetrate freely whilst acting as an effective retainer for the active material.

**3. Special separator design:**

Microporous PVC separators, backed with perforated corrugated PVC sheets form the permanent insulating diaphragms between the plates. They are highly porous, have low electrical resistance and oxidation resistance. These characteristics make it a perfect separating medium. Side sealing clips eliminate the possibility of side shorts.

Perforated corrugated PVC sheets increase the acid pool around the positive plates.

**4. Unique Pole Post Design:**

Its unique pole post design effectively prevents acid leakage and pillar corrosion over the lifetime of the cell. The pole posts have a brass insert with metric thread inside for intercell connection. Plastic encapsulation over lead pole posts prevents any acid leakage from the cell.

**5. Vent Pugs:**

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

### Technical Data

Type of Cell	Capacity at 27°C when discharged at 10 hr. rate to 1.85 V Ah	Charging Current		Total minimum input during initial charging Ah	Weight of Cell +/- 5%		Approx qty. of acid 1.19 sp. gr. Litres	Overall Dimensions of Containers			Corresponding Cell Centres mm	Trickle Charge	
		Starting Rate A	Finishing Rate A		Without Acid Kg	With Acid Kg		Length ± mm 3mm	Breadth ± mm 3mm	Height ± mm 3mm		Min mA	Max mA
OPzS 100	100	12	6	450	11.0	15.2	3.4	206	103	425	111	100	400
OPzS 120	120	14.4	7.2	540	11.4	15.7	3.5	206	103	425	111	120	480
OPzS 200	200	24	12	900	13.0	17.4	3.6	206	103	425	111	200	800
OPzS 420	420	50	25	1890	24.0	33.2	7.4	206	145	542	153	420	1680
OPzS 600	600	72	36	2700	34.7	47.5	10.3	206	145	716	153	600	2400
OPzS 1000	1000	120	60	4500	58.9	80.0	17.0	210	233	716	218	1000	4000
OPzS 1500	1500	180	90	6750	91.0	125.0	27.4	210	275	867	210	1500	6000
OPzS 1600	1600	192	96	7200	95.0	145.0	40.3	214	399	842	222	1600	6400
OPzS 2000	2000	240	120	9000	116.4	164.0	38.4	214	399	842	222	2000	8000
OPzS 2500	2500	300	150	11250	160	220	50.8	214	399	842	222	2500	10000
OPzS 3000	3000	360	180	13500	171	229	49.2	214	399	842	222	3000	12000



- Spines cast in HADI machine at 100 Bar
- Higher reliability, longer life



\*Applied for

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