



# NDP TUBULAR STANDBY BATTERIES



**EXIDE  
INDUSTRIAL**

For over 60 years, Exide Industries Limited, has pioneered battery technology in India. It is the only company in South and South East Asia which designs and manufactures lead acid batteries from 2.5 Ah to 20400 Ah. Exide offers the latest series of Tubular batteries, manufactured in its state of the art ISO 9000 : 2000 and ISO 14001 : 2004 certified factories to fulfil the growing demand both in domestic and export market. Exide NDP Tubular cells conform to BIS specification no.IS.1651

## PRODUCT FEATURES

- HR/TP/PP Container ● Tubular Positive plates
- Pasted Negative Plates ● High tensile, acid resistant polyester gauntlets ● High Porosity Envelope Separators
- Electrolyte Level Indicator ● Microporous Ceramic Vent Plug ● Low Maintenance.

## TORR TUBULAR TECHNOLOGY

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 and can protect the plate support from anodic corrosion. This in turn ensures higher reliability and longer life. Exide Torr Tubular

plates are also cast with low antimony content which reduces the topping up frequency, making the batteries low maintenance type. This also keeps the float charging current at a lower value, thus minimises the total energy requirement needed to keep the battery in charged condition during standby float application.

**APPLICATIONS** ● Power Plants ● Substations ● UPS Systems ● Process industries ● C & I ● Emergency lighting ● Solar ● Railway signalling ● Telecommunication

## Technical Data for Exide NDP Tubular Cells

Type of Cell	Capacity at 10 Hrs rate (Ah)	Charging Current (A)		Total Input during Initial Charging (Ah)	Weight of cell +/- 5% (KG)		Approx Qty of acid 1.19 sp. gr. (Litres)	Overall Cell Dimensions +/- 3 mm			Corresponding cell centres (mm)	Trickle Charge Current (mA)	
		Starting Rate	Finishing Rate		Without Acid	With Acid		Length	Breadth	Height*		Min	Max
TB20P MARK 1	20	2.40	1.20	100	2.40	4.30	1.60	66	159	329	72	20	80
TB40P MARK 1	40	4.80	2.40	200	3.20	5.00	1.50	66	159	329	72	40	160
TB60P MARK 1	60	7.20	3.60	300	4.10	6.70	2.20	94	159	318	104	60	240
TB80P MARK 1	80	9.60	4.80	400	5.10	8.60	2.90	113	159	330	122	80	320
TV100P MARK 1	100	12.00	6.00	500	6.60	10.30	3.10	113	159	372	122	100	400
TM120P	120	14.40	7.20	600	8.90	13.30	3.70	113	159	435	122	120	480
TM150P MARK 1	150	18.00	9.00	750	8.40	12.90	3.80	113	159	435	122	150	600
TV200H MARK 1	200	24.00	12.00	1000	17.60	28.00	8.75	260	210	376	218	200	800
TV250H MARK 1	250	30.00	15.00	1250	19.50	29.50	8.40	260	210	376	218	250	1000
TM300H MARK 1	300	36.00	18.00	1500	25.00	40.50	13.00	318	184	460	193	300	1200
TM350H MARK 1	350	42.00	21.00	1750	27.20	42.10	12.50	318	184	460	193	350	1400
TM400H MARK 1	400	48.00	24.00	2000	29.60	44.10	12.20	318	184	460	193	400	1600
TM450H MARK 1	450	54.00	27.00	2250	32.40	46.70	12.00	318	184	460	193	450	1800
TM500H MARK 1	500	60.00	30.00	2500	40.20	61.00	17.50	395	193	554	200	500	2000
TI600H	600	72.00	36.00	3000	45.60	66.20	17.30	395	193	554	200	600	2400
TL650H	650	78.00	39.00	3250	54.30	71.60	14.50	394	190	510	197	650	2600
TL700H	700	84.00	42.00	3500	56.00	72.90	14.20	394	190	510	197	700	2800
TH750H	750	90.00	45.00	3750	64.20	85.90	18.20	346	198	640	210	750	3000
TH800H	800	96.00	48.00	4000	65.20	86.60	18.00	346	198	640	210	800	3200
TH850H	850	102.00	51.00	4250	68.00	87.30	16.20	346	198	640	210	850	3400
TH900H	900	108.00	54.00	4500	69.00	87.90	15.90	346	198	640	210	900	3600
TH950H	950	114.00	57.00	4750	74.50	98.20	19.90	346	198	725	210	950	3800
TH1000H	1000	120.00	60.00	5000	75.40	99.00	19.80	346	198	725	210	1000	4000
TH1100H	1100	132.00	66.00	5500	92.00	142.00	42.00	384	350	670	374	1100	4400
TH1200H	1200	144.00	72.00	6000	97.00	146.00	41.20	384	350	670	374	1200	4800
TH1300H	1300	156.00	78.00	6500	102.50	151.10	40.80	384	350	670	374	1300	5200
TH1400H	1400	168.00	84.00	7000	107.00	154.80	40.20	384	350	670	374	1400	5600
TH1500H	1500	180.00	90.00	7500	112.00	158.50	39.10	384	350	670	374	1500	6000
TH1600H	1600	192.00	96.00	8000	117.00	162.50	38.20	384	350	670	374	1600	6400
TH1700H	1700	204.00	102.00	8500	123.00	167.60	37.50	384	350	670	374	1700	6800
TH1800H	1800	216.00	108.00	9000	140.00	209.00	58.00	493	345	670	362	1800	7200
TH1900H	1900	228.00	114.00	9500	145.00	212.90	57.10	493	345	670	362	1900	7600
TH2000H	2000	240.00	120.00	10000	151.00	217.50	55.90	493	345	670	362	2000	8000
TH2500H	2500	300.00	150.00	12500	178.00	239.50	51.70	493	345	670	362	2500	10000
TH3000F	3000	360.00	180.00	15000	195.00	290.50	80.30	639	355	705	376	3000	12000
TH3500F	3500	420.00	210.00	17500	222.00	311.00	74.80	639	355	705	376	3500	14000
TH4000F	4000	480.00	240.00	20000	271.00	405.00	112.50	876	366	705	387	4000	16000
TH5000F	5000	600.00	300.00	25000	325.00	448.50	103.80	876	366	705	387	5000	20000

\*Tolerance for Overall Height : +/- 5 mm

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 : Shammagar :** 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>