

Market Leadership - Industrial Batteries
India Back-up Power Industry
Excellence Awards



# **INVATUBULAR**



The Ultimate Inverter Battery







Winner of EFY Awards for Best SMF Battery 6 times in a row 2005, 2006, 2007, 2008, 2009 & 2010 Presenting, Exide INVATUBULAR 400, 500, 550 and 750-the next generation tubular batteries designed specially to withstand long and frequent power interruptions. The ULTIMATE INVERTER BATTERIES.





I Very long life I User friendly I Acid volume per ampere hour is 30% more than that of ordinary tubular batteries. It acts as a coolant and also ensures very low maintenance I Suited for use in areas of frequent power cuts (800 to 1000 cycles of deep discharge as against 300/400 cycles of other batteries) I Can withstand overcharge better I Occupies less floor space, totally new look I Less pollution, environment friendly I Ensures consistent quality

The next generation tubular battery designed specially to withstand long and frequent power interruptions. It is the ultimate Inverter battery.

### **TECHNICAL SPECIFICATION**

Model	Capacity at 27°C when discharged at C20 upto 1.75 vpc	Dimension (+/-3mm)			Weight (Kg+/-5%)		Volume of Electrolyte (1.220 Sp. Gr)	Initial charge Minimum	Initial Charge at Constant Current (A)		Constant Potential Limitina	Trickle Charge (Current in mA)	
		Length	Width	Height*	Dry	Filled	Liters/Cell	AH input (AH)	Start (upto 2.36 vpc)	Finish (upto 2.75 vpc)	Current (Amps)	Min.	Max.
IT 400	115Ah	500	187	416	29.00	53.80	3.38	450	12.0	6.0	25	100	400
IT 500	150Ah	500	187	416	33.77	59.81	3.43	540	14.4	7.2	30	120	480
IT 550	165Ah	500	187	416	36.85	61.65	3.33	610	16.2	8.1	34	135	540
IT 750	200Ah	500	187	416	41.44	66.00	3.30	810	21.6	10.8	45	180	720

<sup>\*</sup>The height mentioned is upto terminal top.

## **INITIAL CHARGING INSTRUCTIONS**

1.220 +/- 0.005 at 27°C 1. Filling in Specific Gravity

2. Rest Period 12 hrs.

450Ah for IT400, 540Ah for IT500, 610Ah for 3. Minimum Ah input

IT550 and 810Ah for IT750

4. In order to reduce the charging time, the following routine may be adopted. For IT400, the initial charging current may be 12A upto 2.36 vpc followed by 6A upto 2.75 vpc. For IT500, the initial charging current may be 14.4A upto 2.36 vpc followed by 7.2A upto 2.75 vpc. For IT550, the initial charging current may be 16.2A upto 2.36 vpc followed by 8.1A upto 2.75 vpc. For 1T750, the initial charging current may be 21.6A upto 2.36 vpc followed by 10.8A upto 2.75 vpc.

However in both cases, minimum Ah input to be given. Under no circumstances, battery temperature should exceed  $50\,^{\circ}$  C. In case the temperature exceeds 50°C, adequate rest to be given till the electrolyte temperature comes to ambient temperature and charging to be continued.

5. Conditions of fully charged

charged condition

- 3 consecutive hourly readings of specific a) gravity and voltage become constant
- Top of charge voltage will be around 16.2V - 16.5V
- All cells should gas freely

1.250 +/- 0.005 at 27°C

Minimum Ah has been given 6. Specific Gravity at fully

NORMAL RECHARGING INSTRUCTIONS

Recharging through Inverter at constant potential mode of 14.4V with limited current as specified. After battery potential reaches 14.4V, the battery should continue in trickle charge mode at constant potential of 13.5V.

# APPLICATION CHART

Electrical Load	System Voltage	Reco. Inverter Rating	Recommended Battery for Different Back-up time					
			5 Hrs.	4 Hrs.	3 Hrs.	2 Hrs.	1 Hr.	
2 Tube + 2 Fan	12	650 VA	IT750	IT500	IT400	IT400	IT400	
4 Tube + 4 Fan	12	650 VA	2P IT750	2P IT500	2P IT400	IT750	IT400	
4 Tube + 5 Fan + 1 TV	12	850 VA	3P IT550	2P IT750	2P IT550	2P IT500	IT550	
8 Tube + 9 Fan + 1 TV	24	1450 VA	2S X 2P IT750	2S X 2P IT750	2S X 2P IT500	2S IT750	2S IT500	

NOTE: If the limit current of one battery is 'A' amp, for 'N' no. batteries in parallel, the limit current for charging of inverter should be AxN amp. Otherwise there will be problem during charging in parallel connection. This point should be taken in consideration before putting batteries in parallel combination. S= Series connection; P= Parallel connection. e.g. 2S X 3P = A string containing 2 nos. batteries in series and 3 nos. such strings in parallel.

Statutory Notice:

All batteries contain lead, which is harmful for humans and environment. As per statutory requirements, the used battery must be returned to the authorized dealer, manufacturer or at the designated collection centres.

Contact our Exide Powercentre Showrooms for Sales & Services



INVATUBULAR is a product of ISO 9001 and ISO 14001 certified factories

**Head Office** 

'Exide House', 59E Chowringhee Road, Kolkata - 700 020, Phone (033) 2283 2120/33/ Kolkata 36/50/51/71/ 2238/39, Fax (033) 2283 2632/37

**Marketing Office** Corporate 6A Hatibagan Road, Entally, Kolkata - 700 014, Kolkata Phone (033) 2286 6158/6159, Fax (033) 2286 6186, E-mail: indlcare@exide.co.in

Regional Offices

New Delhi 'Exide House', 3E/1 Link Road, Jhandewalar Extension, New Delhi - 110 055, Phone (011) 2362 7095/96/98, Fax (011) 2333 5703

Industrial Marketing Division, Economist House, 2nd Floor, Western Wing, S-15, Thiru Vi-Ka Industrial Estate Guindy, Chennai - 600 032, Phone (044) 2250 0726, Chennai 1326, 1216, Fax (044) 2250 1216

'RAHEJAS', 5th Floor, 8C Main Avenue, V P Road, Santacruz (West), Mumbai - 400 054, Phone (022) Mumbai 2646 5283/84, Fax (022) 2646 5042

6A Hatibagan Road, Entally, Kolkata - 700 014. Kolkata Phone (033) 2284 3137/3168/3169,

Fax (033) 2289 7455 **Branch Offices** 

Ph.: (0671) 2686151 Cuttack Ph.: (0361) 234 2500/2341119 Guwahati

Fax (0361) 234 5097 (PP) Jamshedpur Ph.: (0657) 229 3022/0785 Fax (0657) 229 0894 (PP) Ph.: (0612) 257 0415, 645 8102/03

Fax (0612) 252 9902 (PP) Siliguri Ph.: (0353) 253 8321, Fax (0353) 252 3731 Chandigarh Ph.: (0172) 500 0014, Fax (0172) 265 4395

Ph.: (0135) 324 7766 Dehradun Ghaziabad Ph.: (0120) 411 7952, 416 4419 Ph.: (0141) 229 3799/04, Fax (0141) 229 2877 Jaipur Jalandhar Ph.: (0181) 223 7870, 653 4983, Fax (0181) 245 9571

Indore Mumbai Nagpur Pune

Lucknow

Varanasi

Bengaluru

Ph.: (080) 4081 0807 / 0808 Fax (080) 2574 4226

Ph.: (0422) 222 1846 / 222 1408, Fax (0422) 222 0858 Coimbatore Hyderabad Ph.: (040) 6516 3958

Ph.: (0542) 250 1680, Fax (0542) 250 1296

Ph.: (0484) 414 9351, 414 9352, Fax (0484) 414 9311 Kochi Ahmedabad Ph.: (079) 6510 8207, Fax (079) 2676 9932

Ph.: (0522) 404 1896/1899

Fax (0522) 221 8089

Ph.: (0731) 654 2293 Ph.: (022) 2646 5283/84, Fax (022) 2646 5042 Ph : (0712) 253 9972/9973

Fax (0712) 253 8348 Ph.: (020) 3230 4041-45, Fax (020) 2443 0094 Vadodara Telefax: (0265) 235 4240

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