



Winner of EFY Awards for Best SMF Battery... 9 times in a row 2005 - 2013

EXIDE
TUBULAR >>>

INVATUBULAR
400/500/750

The Ultimate Inverter Battery



*Conditions Apply

Mera Inverter Maange Only **INVA**

INDUSTRIAL

Presenting, Exide **INVATUBULAR** 400, 500 and 750—the next generation tubular batteries designed specially to withstand long and frequent power interruptions. The ULTIMATE INVERTER BATTERIES.

FEATURES

● Ironclad® Tubular Technology ● Electrolyte level indicator ● High Acid volume per ampere hour ● Deep cycle design ● Resistance to abuse ● Tower type design ● Common Side Venting ● Conforms to IS 13369 – 1992

ADVANTAGES

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

APPLICATION

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) Liters/Cell	Initial charge Minimum AH input (AH)	Initial Charge at Constant Current (A)		Constant Potential Limiting Current (Amps)	Trickle Charge (Current in mA)	
		Length	Width	Height*	Dry	Filled			Start (upto 2.36 vpc)	Finish (upto 2.75 vpc)		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 750	200Ah	500	187	416	41.44	66.00	3.30	810	21.6	10.8	45	180	720

*The height mentioned is upto terminal top.

INITIAL CHARGING INSTRUCTIONS

1. Filling in Specific Gravity	1.220 +/- 0.005 at 27°C	<p>exceeds 50°C, adequate rest to be given till the electrolyte temperature comes to ambient temperature and charging to be continued.</p> <p>5. Conditions of fully charged</p> <p>a) 3 consecutive hourly readings of specific gravity and voltage become constant</p> <p>b) Top of charge voltage will be around 16.2V – 16.5V</p> <p>c) All cells should gas freely</p> <p>d) Minimum Ah has been given</p> <p>6. Specific Gravity at fully charged condition</p> <p>1.250 +/- 0.005 at 27°C</p>
2. Rest Period	12 hrs.	
3. Minimum Ah input	450Ah for IT400, 540Ah for IT500 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 IT750, 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°C. In case the temperature		

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.
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 IT750	2P IT750	2P IT750	2P IT500	IT750
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

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

Corporate Marketing Office

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

Regional Offices

New Delhi 'Exide House', 3E/1 Link Road, Jhandewalan Extension, New Delhi - 110 055, Phone (011) 2362 7095/96/98, Fax (011) 2355 5703

Chennai Exide Industries Limited, New No. 824/2, Old No. 398, Third Floor, Anna Salai, Nandanam, Chennai - 600 035 (Before Hyundai Showroom), Phone (044) 4907 5100, (044) 4907 5125, Fax (044) 4907 5126

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

Kolkata 6A Hatibagan Road, Entally, Kolkata - 700 014, Phone (033) 2284 3137/3168/3169, Fax (033) 2289 7455

Branch Offices

Cuttack Ph.: (0671) 2686151

Guwahati Ph.: (0361) 245 1669

Jamshedpur Ph.: (0657) 229 3022/0785, Fax (0657) 229 0894 (PP)

Patna Ph.: (0612) 322 3865, Fax (0612) 252 9902 (PP)

Siliguri Ph.: (0353) 253 8321, Fax (0353) 252 3731

Chandigarh Ph.: (0172) 500 0014

Dehradun Ph.: (0135) 324 7766

Ghaziabad Ph.: (0120) 437 7031

Jaipur Ph.: (0141) 519 1206, Fax (0141) 519 1221

Jalandhar Ph.: (0181) 500 9305/9315/9321/9322, Fax (0181) 500 9326

Lucknow Ph.: (0522) 404 1896/1899/491 3709

Varanasi Ph.: (0542) 220 2129

Bengaluru Ph.: (080) 4128 3793, Fax (080) 2574 4226

Coimbatore Ph.: (0422) 470 0105, Fax (0422) 222 0858

Hyderabad Ph.: (040) 6516 3958

Kochi Ph.: (0484) 414 9351, 414 9352, Fax (0484) 414 9311

Ahmedabad Ph.: (079) 6510 8207, Fax (079) 2963 0532

Indore Ph.: (0731) 654 2293

Mumbai (Fort) Ph.: (022) 2207 2188/89, Fax (022) 2207 8631

Nagpur Ph.: (0712) 253 9972/9973, Fax (0712) 253 8348

Pune Ph.: (020) 3230 4041-45, Fax (020) 2443 0094

Vadodara Telefax: (0265) 235 4240

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.

www.exide4u.com
Toll Free No. 1800-103-5454

PHX/IT/40K/06-2004