

EXIDE
INDUSTRIAL

 **EXIDE**
INVA TUBULAR



The Ultimate Inverter Battery

Mera Inverter Maange Only **INVA**

Presenting, Exide **INVA TUBULAR 400 and 550**, the next generation tubular batteries designed specially to withstand long and frequent powercuts. 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 for IT550
- Common Side Venting ● Conforms to IS 13369 – 1992

ADVANTAGES

Very long life | User friendly | 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 | Suited for use in areas of frequent power cuts (800 to 1000 cycles of deep discharge as against 300/400 cycles of other batteries) | Can withstand overcharge better | Occupies less floor space, totally new look | Less pollution, environment friendly | Ensures consistent quality

APPLICATION

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

TECHNICAL SPECIFICATION

Model	Capacity at 27°C when discharged at C20 upto 1.75 vpc (1.280 sp. gr.)	Dimension (+/-3mm)			Weight (Kg +/-5%)		Volume of Electrolyte (1.220 Sp. Gr) Liters	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	110Ah	506	220	257	29.10	43.35	11.40	450	12	6	20	100	400
IT 550	165Ah	500	187	430	35.80	60.80	20.00	610	16	8	27	135	540

*The height mentioned is upto terminal top.

HIGHER DISCHARGE RATES (OPTIONAL)

Hours	10	5	3	1
Capacity Ah	IT400 100	83	72	50
	IT550 135	112	97	68

INITIAL CHARGING INSTRUCTIONS

1. Filling in Specific Gravity 1.220 +/- 0.005 at 27°C	5. Conditions of fully charged	a) 3 consecutive hourly readings of specific gravity and voltage become constant b) Top of charge voltage will be around 16.2V - 16.5V c) All cells should gas freely d) Minimum Ah has been given
2. Rest Period 6 - 8 hrs.		
3. Minimum Ah input 450Ah for IT400 and 610Ah for IT550		
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 IT550, the initial charging current may be 16A upto 2.36 vpc followed by 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 exceeds 50°C, adequate rest to be given till the electrolyte temperature comes to ambient temperature and charging to be continued.		
6. Specific Gravity at fully charged condition 1.250 +/- 0.005 at 27°C		

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 13.8V.

BATTERY SELECTION CHART

Inverter Rating VA	DC input voltage	Back-Up Duration					
		6 Hrs.	5 Hrs.	4 Hrs.	3 Hrs.	2 Hrs.	1 Hrs.
300	12	2P IT400	IT550	IT550	IT400	IT400	IT400
500	12	2P IT550	2P IT550	2P IT400	2P IT400	2P IT400	IT400
	24	2S IT550	2S IT550	2S IT400	2S IT400	2P IT400	2P IT400
700	12	3P IT550	3P IT400	2P IT550	2P IT400	2P IT400	IT400
	24	2S X 2P IT550	2S X 2P IT400	2S IT550	2S IT400	2S IT400	2P IT400
1000	12	4P IT550	4P IT550	3P IT550	3P IT400	2P IT550	2P IT550
	24	2P X 2S IT550	2P X 2S IT550	2P X 2S IT400	2P X 2S IT400	2S IT550	2S IT400
1300	24	2S X 3P IT550	2P X 2S IT550	2P X 2S IT550	2P X 2S IT400	2P X 2S IT400	2S IT400
	48	4S X 2P IT400	4S X 1P IT550	4S X 1P IT550	4S X 1P IT550	4S X 1P IT550	4S X 1P IT550
2000	24	2S X 4P IT550	2S X 4P IT550	2S X 3P IT550	2S X 3P IT550	2S X 2P IT550	2S IT400
	48	4S X 2P IT550	4S X 2P IT550	4S X 2P IT400	4S X 2P IT400	4S IT550	4S IT400

S= Series connection; P= Parallel connection. 4S X 2P IT550 means a string containing 4 nos. IT550 in series and 2 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



INVA TUBULAR is a product of ISO 9001 and ISO 14001 certified factories

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PHX/IT400, 550/10K/08-2006

*Applied for

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