

EXIDE  
INDUSTRIAL

 **EXIDE**  
**INVA TUBULAR**

**30 Months**  
Warranty



The Ultimate Inverter Battery

*Mera Inverter Maange Only* **INVA**

**EXIDE**



# The Perfect Flow

*For centuries, India has mastered the art of perfection. In INVA Tubular, Exide shows its mastery with a truly crafted tubular inverter battery for the perfect flow of power.*

*Enjoy the summer!*



EXIDE Industries Ltd.  
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Presenting, Exide **INVA TUBULAR 500** and **650**, 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 ● 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 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 500	150Ah	500	187	430	33.80	60.05	23.80	540	14.4	7.2	24	120	480
IT 650	200Ah	500	187	430	45.00	72.00	21.60	720	19.2	9.6	32	160	640

\*The height mentioned is upto terminal top.

**HIGHER DISCHARGE RATES (OPTIONAL)**

Hours	10	5	3	1
Capacity Ah	IT500 120	100	86	60
	IT650 160	133	115	88

**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
2. Rest Period	6 - 8 hrs.		b) Top of charge voltage will be around 16.2V – 16.5V
3. Minimum Ah input	540 Ah for IT500 and 720 Ah for IT650		c) All cells should gas freely
4. In order to reduce the charging time, the following routine may be adopted. For IT500, the initial charging current may be 14.4A upto 2.36vpc followed by 7.2A upto 2.75vpc. For IT650, the initial charging current may be 19.2A upto 2.36vpc followed by 9.6A upto 2.75vpc. However, in both cases, minimum Ah input to be given. Under the circumstances, battery temperature should exceed 50°C. In case the temperature exceeds 50°C, adequate rest to be given till the electrolyte temp. comes to ambient temp. and charging to be continued.			d) Minimum Ah has been given
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	IT650	IT650	IT500	IT500	IT500	IT500	
500	12	2P IT500	2P IT500	2P IT500	IT650	IT500	IT500	
	24	2S IT500	2S IT500	2S IT500	2S IT500	2S IT500	2S IT500	
700	12	3P IT500	2P IT650	2P IT650	2P IT500	IT650	IT650	
	24	2S IT650	2S IT650	2S IT500	2S IT500	2S IT500	2S IT500	
1000	12	3P IT650	3P IT650	3P IT500	2P IT650	2P IT650	2P IT650	
	24	2P X 2S IT500	2P X 2S IT500	2P X 2S IT500	2S IT650	2S IT650	2S IT650	
1300	24	2S X 2P IT650	2S X 2P IT650	2S X 2P IT500	2S X 2P IT500	2S IT650	2S IT650	
	48	4S IT650	4S IT650	4S IT500	4S IT500	4S IT500	4S IT500	
2000	24	2S X 3P IT650	2S X 3P IT650	2S X 3P IT650	2S X 3P IT650	2S X 2P IT650	2S IT650	
	48	4S X 2P IT650	4S X 2P IT500	4S X 2P IT500	4S IT650	4S IT500	4S IT650	

S= Series connection; P= Parallel connection. 4S X 2P IT500 means a string containing 4 nos. IT500 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/IT500, 650/10K/08-2006

\*Applied for

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