

FROST & SULLIVAN

2010 BEST PRACTICES AWARD

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

EXIDE

Get 50% more Back-up with

IT 500 Super



*Conditions Apply



Winner of EFY Awards for Best SMF Battery 6 times in a row 2005, 2006, 2007, 2008, 2009 & 2010

The new INVA TUBULAR

Presenting the new IT500^{Super}, the Tall Tubular battery with 50% more Back-up Power.



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 outages. You can now take advantage of Exide's breakthrough technology to enjoy full power for more hours with your Inverter – The difference is clear to see!

TECHNICAL SPECIFICATION

| Model | Capacity 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/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. |
| IT500 SUPER | 150 Ah+ | 500 | 187 | 416 | 40.6 | 62.6 | 3 | 810 | 21.6 | 10.8 | 45 | 180 | 720 |

*The height mentioned is upto terminal top.

INITIAL CHARGING INSTRUCTIONS FOR DRY BATTERY

| | |
|---|--|
| 1. Filling in Specific Gravity 1.220 +/- 0.005 at 27°C | electrolyte temp. comes to ambient temp. and charging to be continued. |
| 2. Rest Period 12 hrs. | |
| 3. Minimum Ah input 810 Ah | |
| 4. In order to reduce the charging time, the following routine may be adopted. For IT 500 Super, the initial charging current may be 21.6A upto 2.36 vpc followed by 10.8A upto 2.75 vpc. However, minimum Ah input has 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 | |
| 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 input 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.

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 | IT500 SUPER | IT500 SUPER | IT500 SUPER | IT500 SUPER | IT500 SUPER |
| 4 Tube + 4 Fan | 12 | 650 VA | 2P IT500 SUPER | 2P IT500 SUPER | 2P IT500 SUPER | IT500 SUPER | IT500 SUPER |
| 4 Tube + 5 Fan + 1TV | 12 | 850 VA | 3P IT500 SUPER | 2P IT500 SUPER | 2P IT500 SUPER | 2P IT500 SUPER | IT500 SUPER |
| 8 Tube + 9Fan + 1 TV | 24 | 1450 VA | 2PX2S IT500 SUPER | 2PX2S IT500 SUPER | 2PX2S IT500 SUPER | 2S IT500 SUPER | 2S IT500 SUPER |

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.

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.



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