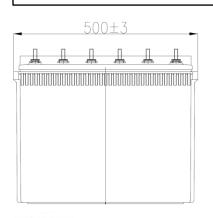
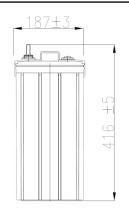
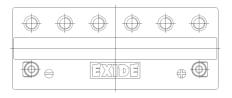
TECHNICAL DATA SHEET FOR 1T500, IT 400 & IT750 (12V @ C20) TUBULAR



BATTERY OUTLINE







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

SPECIFICATION CHART:

Battery Type	Nominal Voltage (V)	Rated Capacity (Ah) at 27°C	Dimensions (in mm.)			Weight (Kg.) +/- 5%		Volume of Initial Electrolyt charge e (1.220 Minimum	1 11	Initial Charge at constant Current (A)		Constant Potential	Charge(Trickle Charge(Current in Ma)	
		C20 @ 1.75 Vpc	Overall Height +/-5	'L' +/-3	'W' +/-3	Dry	Filled	Sp. Gr.) AH Liters per input(AH)	Start (up to	(up to	Limiting Current(Amps)	Min	Max		
IT500	12	150Ah	416	500	187	33.77	59.81	3.43	540	14.4	7.2	30	120	480	
IT400	12	115Ah	416	500	187	29.00	53.80	3.38	450	12.0	6.0	25	100	400	
IT750	12	200Ah	416	500	187	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

2. Rest Period 12 hrs.

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

- 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

 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 13.5V.

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.

Discharge Data Amps @27° C

	IT 400												
ECV	1H	2H	3H	4H	5H	6Н	7H	8H	9Н	10H	20H		
1.70	47.0	31.0	23.6	19.0	16.4	14.7	13.4	12.0	11.0	10.2	5.8		
1.75	45.6	30.4	23.1	18.8	16.1	14.5	13.2	11.8	10.9	10.0	5.7		
1.80	39.7	27.8	21.5	17.9	15.4	13.9	12.6	11.4	10.5	9.5	5.4		
1.85	32.1	23.8	19.2	16.4	14.2	12.6	11.3	10.6	9.8	9.1	5.1		

	IT 500												
ECV	1H	2H	3H	4H	5H	6Н	7H	8H	9Н	10H	20H		
1.70	56.4	37.2	30.4	22.8	19.7	17.7	16.0	14.4	13.2	12.2	7.6		
1.75	54.7	36.5	27.8	22.5	19.3	17.4	15.9	14.2	13.1	12.0	7.5		
1.80	47.6	33.4	25.8	21.5	18.5	16.7	15.1	13.7	12.6	11.4	7.1		
1.85	38.5	30.5	23.0	19.7	17.0	15.1	13.6	12.7	11.8	10.9	6.8		

	IT 750												
ECV	1H	2H	3H	4H	5H	6Н	7H	8H	9Н	10H	20H		
1.70	84.6	55.8	42.5	34.2	29.5	26.5	24.1	21.5	19.8	18.4	10.2		
1.75	82.1	54.7	41.7	33.8	29.0	26.1	23.8	21.3	19.7	18.0	10.0		
1.80	71.4	50.0	38.7	32.2	27.7	25.1	22.7	20.5	19.0	17.1	9.5		
1.85	57.8	42.8	34.5	29.5	25.5	22.6	20.4	19.0	17.7	16.4	9.1		

CHARECTERISTICS CURVES:

