

# LEAD ACID SOLAR TUBULAR BATTERIES

www.lentoindia.com

# X-TRA POWER



Lento uses premium technology and high grade materials in these Lead Acid Tubular Batteries to deliver maximum power for extended durations and have an appreciably longer life span. These batteries are specifically suitable for powering up UPS and Inverters.

Lento flooded Lead Acid Batteries are environment-friendly, highly reliable in performance and are low in cost. Here again our extensive research and development wing has helped us to create batteries customized to suit international operating conditions. These flooded batteries are perfect for use in battery powered vehicles and power inverters as well as for telecom use.

## FEATURES



## APPLICATION



\* Due to continuous product development our specification are subject to change without notice

**MADE IN INDIA**

## TUBULAR BATTERY INTERNAL CLASSIFICATION

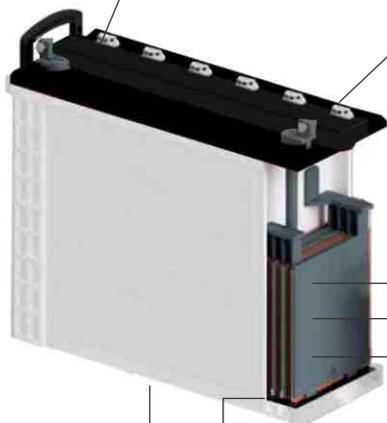
### Top Ventilation of Safe Charging

- Easy gas release during charging
- Reduce gas accurturation
- Greater product safety



### Modern Terminal Design

- Prevents form external short circuit
- Terminal orientation Changes
- New robust design first time in the industry



### Robust Grid Design

- With special additives



### PV Envelop Separator

- A Perfect separation medium
- Enhances Decimation Resistance
- Increase product life

### High Purity Lead

- Higher cycle time
- Low self discharging rate
- Low topping up

### Thicker Plate

- For Extra Life

### Deep Cycle

- Flat negative plate with special additives
- Expanders for better charge
- Deeper discharge cycle

## MODERN TERMINAL DESIGN



### Terminal Configuration

Terminal Type :-L  
Terminal Height :- 31mm  
Torque Value :- 8-10 N.m  
Bolt Type :- M8

## Technical Specifications @ C-20 Batteries

MODEL	Rated	Rating	Container Type	Overall Battery Dimension (± 2.0mm)			Volume of Electrilyte 1.220 Sp. Gr	Gross Weight (Kg.) (±3%)
	Voltage	Capacity (Ah)		L	W	H		
	(V)	(@C20)						
LSTB 12000	12	100Ah	IT 500	500	187	416	14	49.8
LSTB 16500	12	150Ah	IT 500	500	187	416	20	58.3
LSTB 20000	12	180Ah	IT 500	500	187	416	19	59.0
LSTB 22000	12	200Ah	IT 500	500	187	416	19.5	61.0
LSTB 24000	12	220Ah	IT 500	500	187	416	19	62.5
LSTB 26000	12	240Ah	IT 500	500	187	416	20	64.5
LSTB 27000	12	250Ah	IT 500	500	187	416	22	66.0
LSTB 28000	12	260Ah	IT 500	500	187	416	24	69.5
LSTB 30000	12	280Ah	IT 700	514	200	425	26	72.8
LSTB 32000	12	300Ah	IT 700	514	200	425	28	74.0

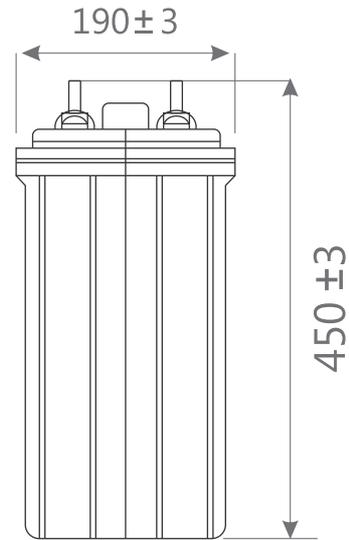
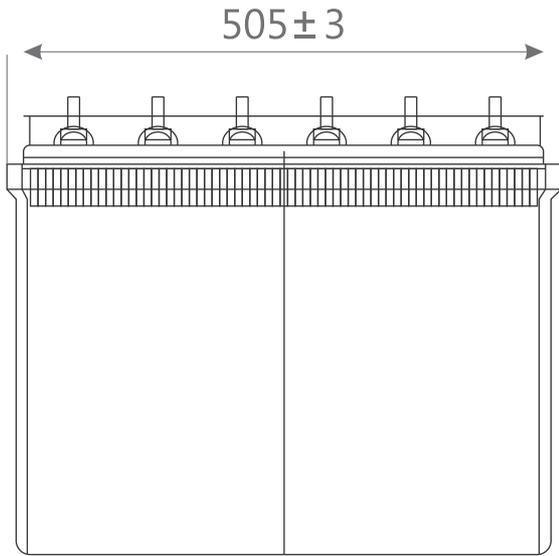
\*The height mentioned is upto terminal top

## Technical Specifications @ C-10 Batteries

MODEL	Rated	Rating	Container Type	Overall Battery Dimension (± 2.0mm)			Volume of Electrilyte 1.240 Sp. Gr	Gross Weight (Kg.) (±3%)
	Voltage	Capacity (Ah)		L	W	H		
	(V)	(@C10)						
LSTB 12000	12	100Ah	IT 500	505	200	415	14	51.3
LSTB 16500	12	150Ah	IT 500	505	200	415	20	59.8
LSTB 22000	12	200Ah	IT 500	505	200	415	19.5	62.5
LSTB 24000	12	220Ah	IT 500	505	200	415	19	64.0
LSTB 26000	12	240Ah	IT 500	505	200	415	20	66.0
LSTB 27000	12	250Ah	IT 500	505	200	415	22.5	69.0
LSTB 28000	12	260Ah	IT 500	505	200	415	24.5	70.8
LSTB 30000	12	280Ah	IT 700	514	200	425	26.5	73.0
LSTB 32000	12	300Ah	IT 700	514	200	425	29	75.0

\*The height mentioned is upto terminal top

# TUBULAR BATTERY INTERNAL CLASSIFICATION



## ADVANTAGES

I Very long life I user friendly I acid volume per ampere hour is 30% more than that off ordinary tubular batteries. it act as coolant and also ensure very low maintenance I suited for use in areas of frequent power cuts I can withstand overcharge better I occupies less floor space, totally new look I less pollution environment friendly I ensure consistent quality

## NORMAL RECHARGING INSTRUCTION

Recharging through Inverter at constant potential mode of 14.2V with limited current as specified. After battery potential reaches 14.4V, the battery should continue in float charge mode at constant potential of 13.8V.

## Table I - Regular Wet Lead Acid Battery

Readings taken via Voltmeter after resting for more than 2 hrs. (i.e., no charging or discharging)

State of charge (Soc)	100%	95%	90%	80%	70%	60%	50%	40%	30%	20%	10%	Below 10% DEAD
12V	12.70	12.60	12.50	12.42	12.32	12.20	12.06	11.90	11.75	11.58	11.31	10.5 or less
Comments	Cycling your battery in this zone will ensure a reasonable life expectancy							Occasionally dropping into this zone is OK but is not recommended. Repeated discharge to these levels will shorten battery life.			Permanent damage will occur	

Notes : Stated voltage assume a temperature of 27°C Batteries just taken off the charger will have significantly higher voltage until the surface charge decays over 2 hrs or more.

### PRODUCT FEATURES

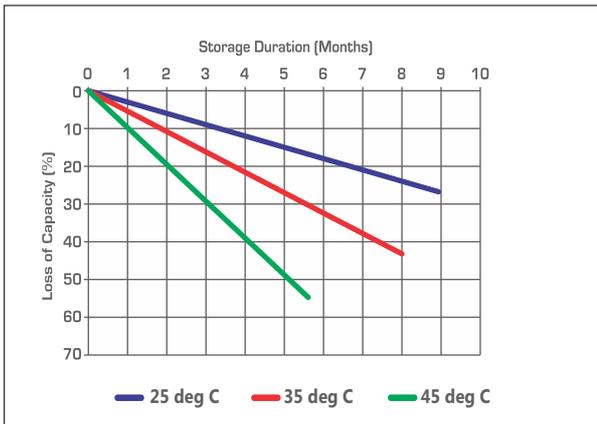
-  Long shelf life when left unattended for extended periods
-  Acid Resistant Polyester Gauntlets
-  Pasted Negative Plates
-  High Porosity Envelope Separators
-  Tubular Positive Plates
-  Micro porous Ceramic Vent Plug

### PRODUCT BENEFITS

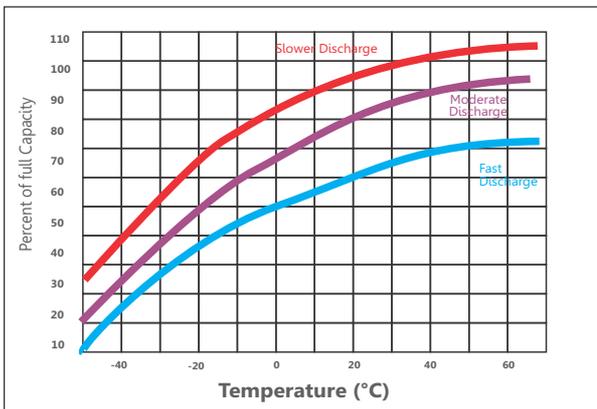
-  Long design life
-  Rugged Performance
-  Very low maintenance
-  Longer life without charging
-  Can handle extreme weather conditions
-  More efficient and saves money

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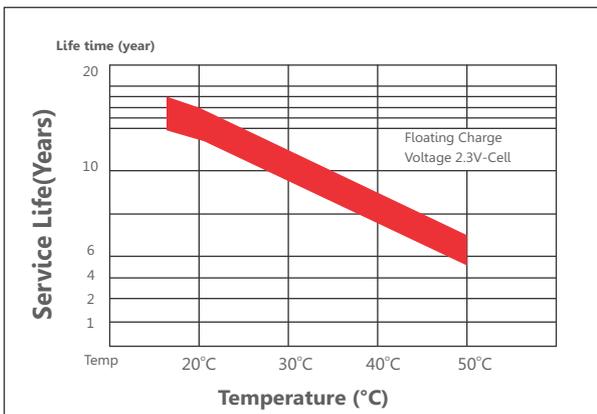
## Self Discharge Characteristics @ Different Temperature



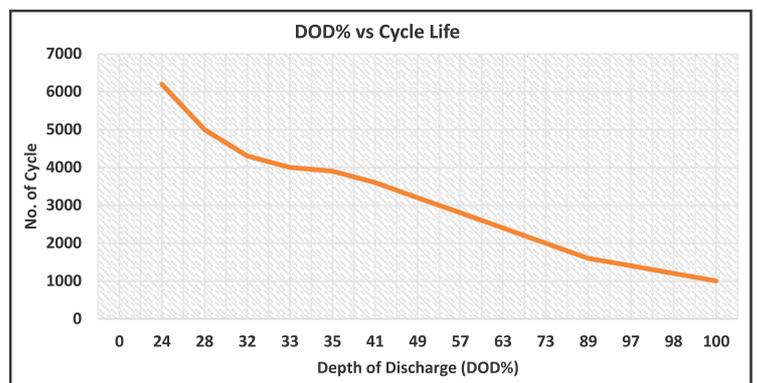
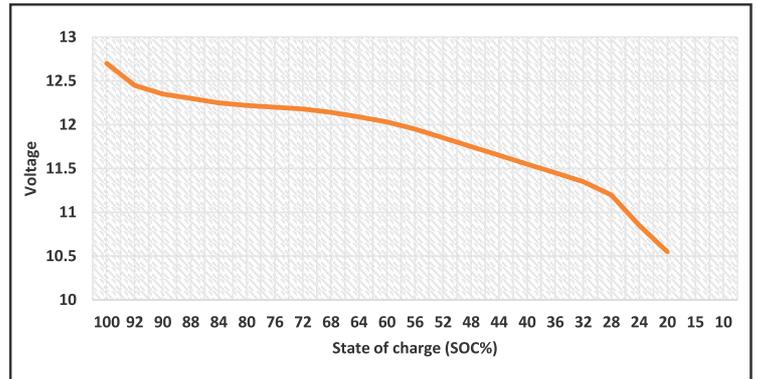
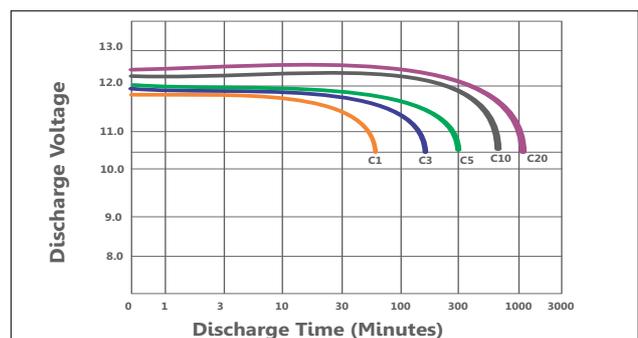
## Expected Capacity vs Temperature



## Service (Float) Life and Temperature



## Service (Float) Life and Temperature at various rates @ 27°C



## Charging Instructions

Charger Voltage Settings (at 77° F/ 25°C)			
System Voltage	12V	24V	48V
Maximum Charge Current	As mentioned in the table on page no 2.		
Absorption Voltage	14.4	28.8	57.6
Float Voltage	13.6	27.2	54.4
Equalization Voltage	16	32	64
Do not install or charge batteries in a sealer or non- ventilated compartment. Constant under or overcharging will damage the battery and shorten its life as with any battery.			
Periodic Charge	Provide a periodic freshening charge to maintain a SOC greater level.		

Product By :

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