



LEAD ACID SOLAR  
TUBULAR BATTERIES

X-TRA  
POWER



Franklin 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.

Franklin 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



HIGH ACID VOLUME



LOW ANTIMONIAL ALLOY BATTERY



DEEP DISCHARGE RECOVERY



LOWER MAINTENANCE



PRESSURE DIE CASTING



TUBULAR PLATE

APPLICATION



Inverter/UPS Systems



Emergency Lighting



EPABX



Solar & Wind Power Storage



Elevator Back Ups



Hotels, Banks Offices

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



# TUBULAR BATTERY INTERNAL CLASSIFICATION

### Top Ventilation of Safe Charging

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



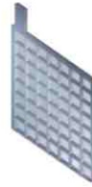
### Modern Terminal Design

- 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 FOR SOLAR TUBULAR BATTERIES

MODEL	Rated	Rating	Container Type	Overall Battery Dimension (± 2.0mm)			Net Weight (Kg.) (±3%)	Gross Weight (Kg.) (±3%)
	Voltage (V)	Capacity (Ah)		L	W	H		
FLTB - 7000	12	50AH	IT 500	500	275	272	23	24
FLTB - 9000	12	70AH	IT 500	500	275	272	27	28
FLTB - 12000	12	100AH	IT 500	500	187	416	48.5	50
FLTB - 17000	12	150AH	IT 500	500	187	416	55.5	57
FLTB - 22000	12	200AH	IT 500	500	187	416	63	64.5
FLTB - 26000	12	240AH	IT 500	500	187	416	65.5	67

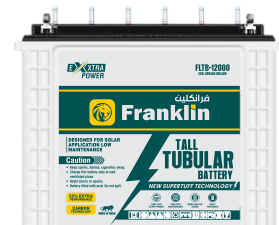
\*The height mentioned is upto terminal top



50AH FLTB - 7000



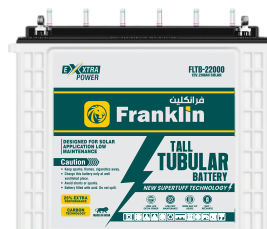
70AH FLTB - 9000



100AH FLTB - 12000



150AH FLTB - 17000



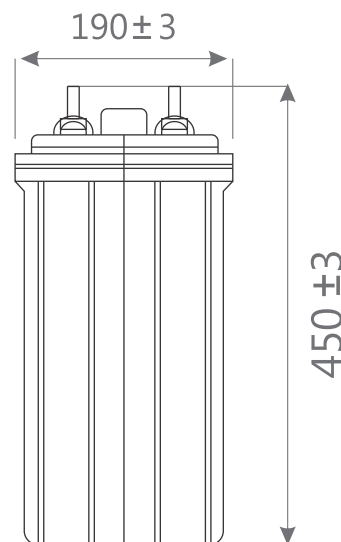
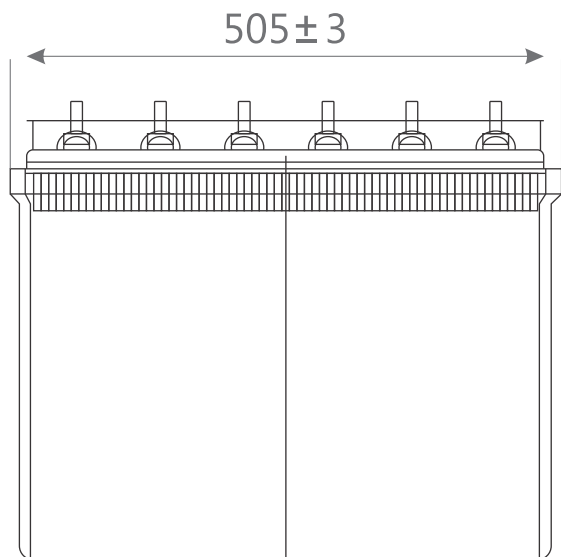
200AH FLTB - 22000



240AH FLTB - 26000



# 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

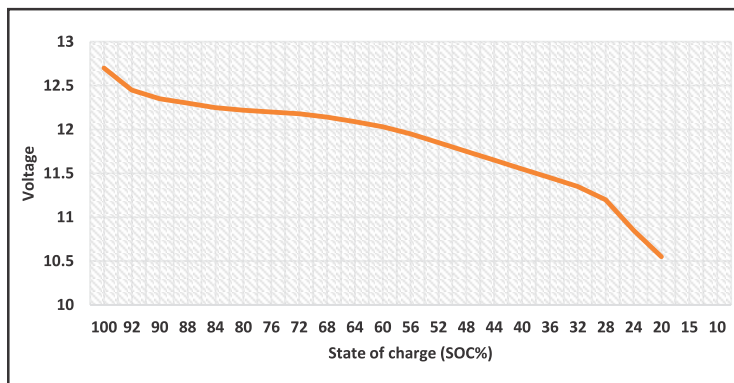
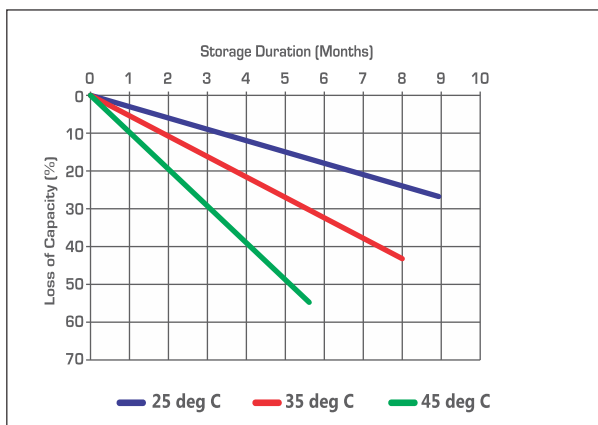
### PRODUCT BENEFITS

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

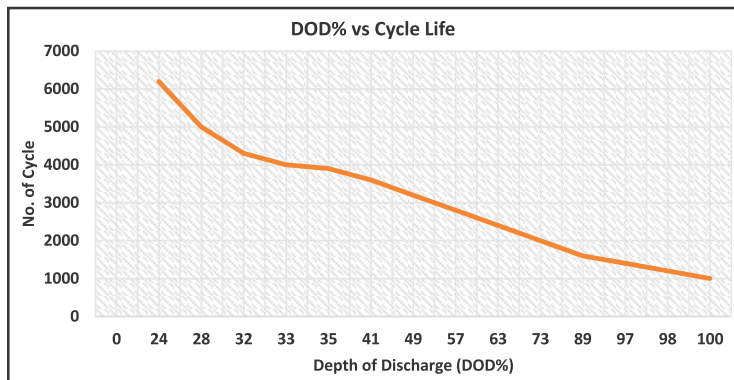
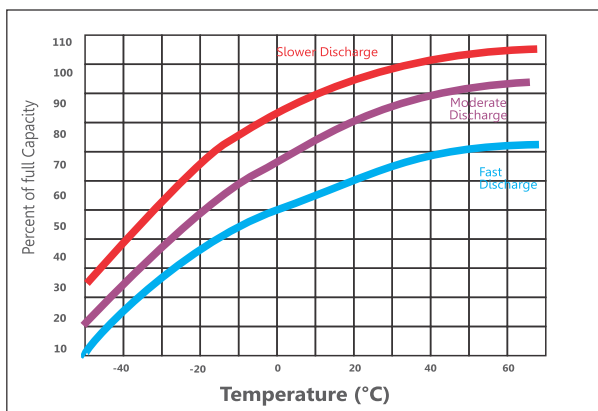


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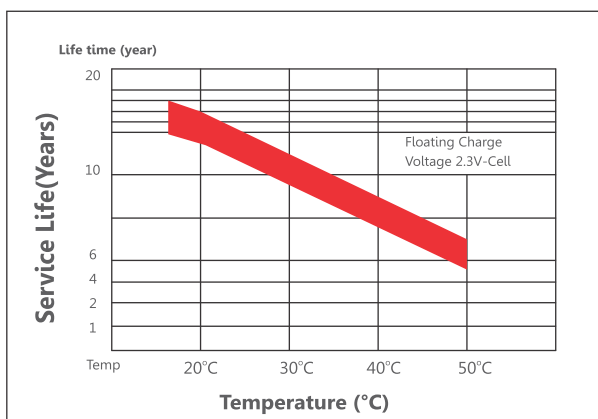
## Self Discharge Characteristics @ Different Temperature



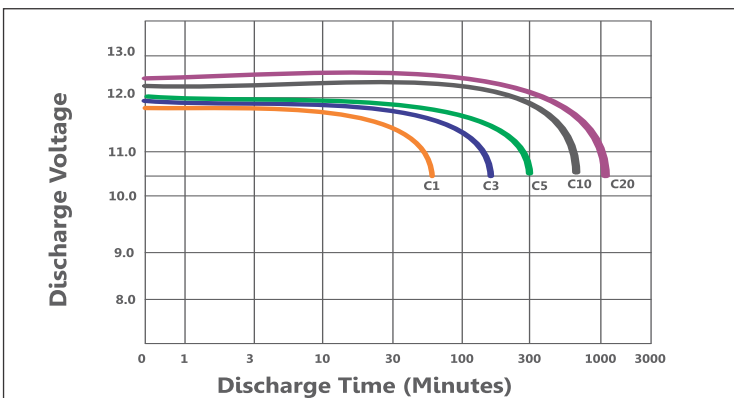
## Expected Capacity vs Temperature



## 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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