

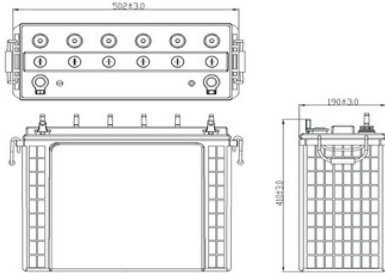


# TALL TUBULAR BATTERY





## TECHNICAL SPECIFICATIONS



### Product Features :-

1. Consistent backup throughout life
2. Robust Tubular with High Pressure diecasted spine-resulting low rate of spine corrosion.
3. Excellence behaviour in PSOC condition as compare
4. Low self discharge
5. Optimized Negative paste receipty for fast charge acceptance
6. Low water loss
7. Excellent performance on deep cyclic application as compare to AGM-VRLA
8. Very high design and service life
9. Spill proof vent plug - resulting in no spillage on top and low controlled acid fumes.

S.No	Type	Ah @C-10	Battery Dimensions in mm $\pm 3\%$				Weight in kg $\pm 3\%$	Charging Current (Amp.)	Battery Layout
			Length	Width	Height	Height with float			

### Tall Tubular Battery

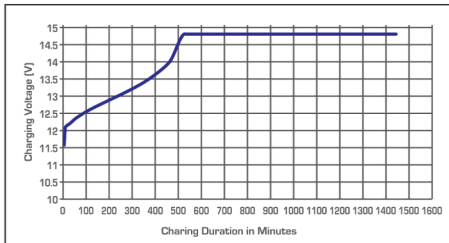
1	TT500	300	505	190	405	465	75	20	L
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\*Specifications are under continuous improvement. Subject to change without notice.

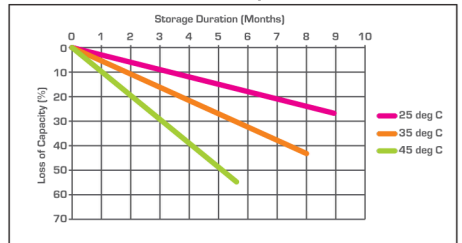


- Poly Components Material :- Polypropylene Co polymer
- Watering system :- Individual to every cell in Monobloc
- Color :-White

### Charging Profile



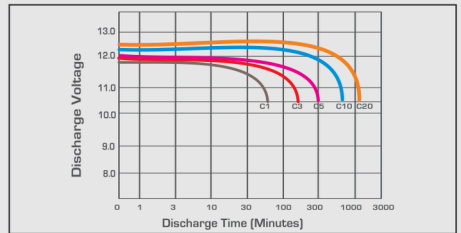
### Self Discharge Characteristics @ Different Temperature



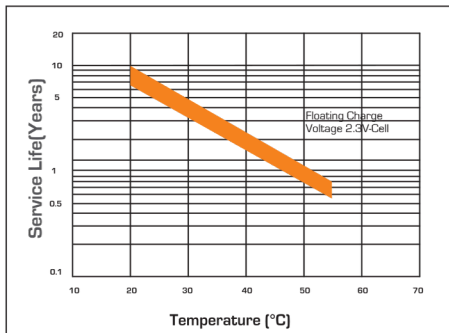
### State of Charge Measure of Open-circuit Voltage @ 27°C

State of Charge	Specific Gravity	Voltage
100%	1.245-1.275	12.55V-12.70V
75%	≤ 1.225	≤ 12.4V
50%	≤ 1.190	≤ 12.1V
25%	≤ 1.155	≤ 12.0V
0%	1.120	11.8V

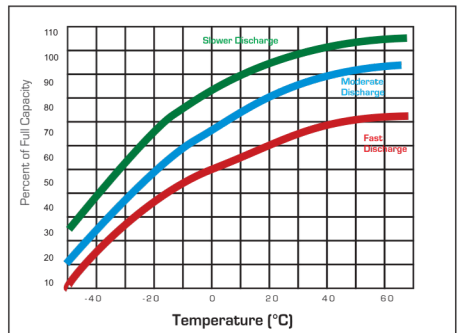
### Discharging Characteristics at various rates @ 27°C



### Service (Float) Life and Temperature



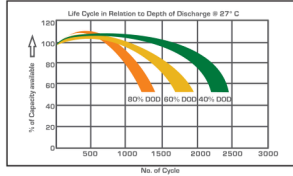
### Expected Life For Regular Series



### Specific Gravity & Self Discharge w.r.t. Temperature

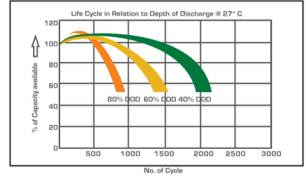
	Add	Subtract
CHARGING TEMPERATURE COMPENSATION	0.005 volt per cell for every 1°C below 25°C	0.005 volt per cell for every 1°C above 25°C or 1°F above 77°F
	0.0028 volt per cell for every 1°F below 77°F	0.0028 volt per cell for every 1°F above 77°F
OPERATIONAL DATA	Operating Temperature	Self Discharge
	4°F to 131°F (20°C to +55°C) At temperatures below 32°F (0°C) maintain a state of charge greater than 60%.	As per discharge Graph

### Expected Life Cycles of Tall Tubular Battery



80%: 1100-1200 Cycle, 60%: 1600-1800, 40%: 2200-2400

### Expected Life Cycles of Short Tubular Battery



80%: 800-900 Cycle, 60%: 1300-1500, 40%: 1900-2100

### Charging Instructions

Charger Voltage Settings (at 77° F/ 25°C)			
System Voltage	12V	24V	48V
Maximum Charge Current	0.2C10		
Minimum Charge Current	20Amp.		
Maximum Absorption Phase Time (hours)	4		
Absorption Voltage	14.6	29.2	58.4
Float Voltage	13.8	27.6	55.2
Equalization Voltage	16	32	64
NOTE: 1) Do not install or charge batteries in sealer or non-ventilated compartment. Constant under or overcharge will damage the battery and shorten its life as any battery. 2) Maximum two strings are allowed in parallel connections.			
Periodic Charge	Provide a periodic fresh charge to maintain a SOC greater than the threshold of 80%		

Terminal Configuration :-  
Terminal Type :- L  
Bolt Type :- M8



Vent Plug Type :-  
M22 coin type



Vent Plug Type :-  
M30 Dummy Plug

