

# TALL TUBULAR

## ULTRA LOW MAINTENANCE BATTERY (UP TO 260AH)



**Hi-Power Selenium  
Technology**



**More Backup,  
More Reliability**



**Deep-Cycle Solar  
Compatibility Battery**



**Low Maintenance**



**Low Self Discharge  
Current**



**JTb Technology to  
Handle High Surge  
Current of Load**



PowerTen™ Power That Thinks Ahead

At PowerTen™, we believe power should be reliable, intelligent, and built for the future. That's why our Hi-Power Selenium Technology batteries are designed to deliver exceptional durability, longer backup, and ultra-low maintenance even in challenging conditions.

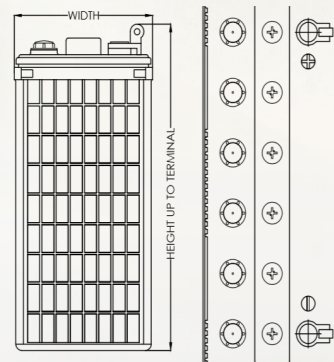
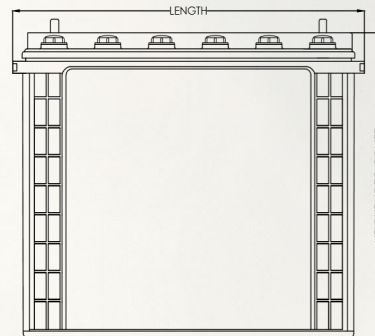
Our tall tubular batteries are solar-ready, programmable, and highly efficient, making them the perfect choice for homes, businesses, and communities across Nigeria.

Efficient. Intelligent. Sustainable.

PowerTen™ isn't just a battery it's a promise of uninterrupted power, so you can live, work, and grow without compromise.

## TECHNICAL SPECIFICATION

### TALL TUBULAR ULTRA LOW MAINTENANCE BATTERY



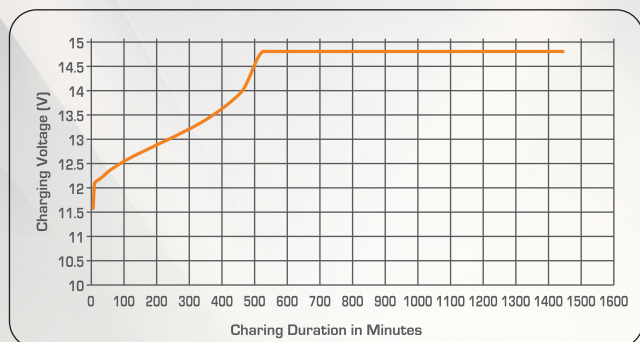
#### PowerTen™ Product Features

1. Strong Spine Design High-pressure die-cast spine resists corrosion.
2. Spill Proof Vent plug resulting in no spillage on top and low controlled acid fumes.
3. Optimized Negative paste receipt for fast charge acceptance
4. Consistent backup throughout life
5. Excellent behavior in PSOC condition as compare
6. Low Self Discharge
7. Excellent performance on deep cyclic application as compare to AGM VRLA
8. Very High Design & Service Life
9. Low water loss

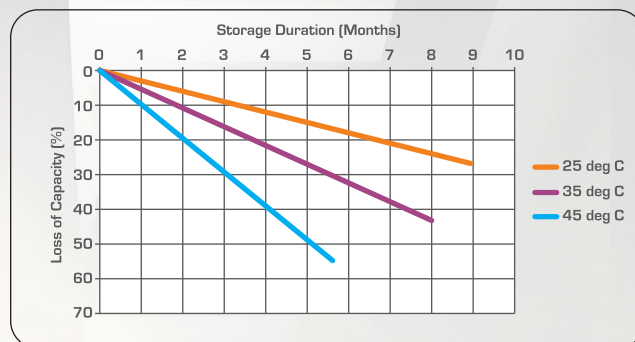




### Charging Profile



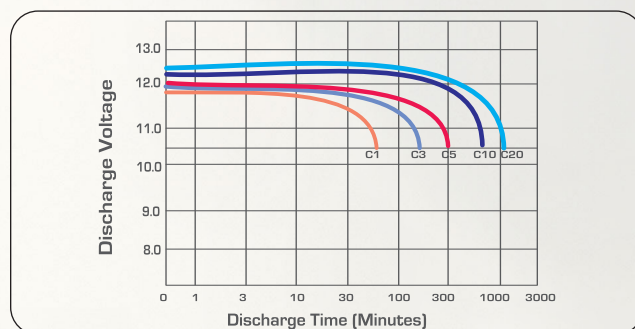
### Self Discharge Characteristics @ Different Temperature



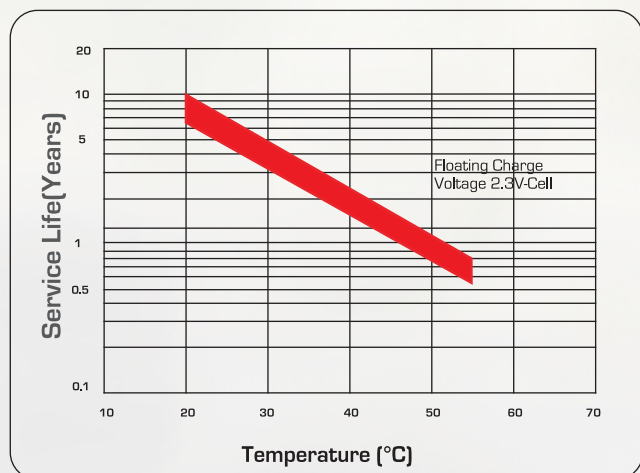
### State of Charge Measure of Open-circuit Voltage @ 27°C

State of Charge	Specific Gravity	Voltage
100%	1.250- 1.260	12.60-12.70V
75%	≤ 1.225	≤ 12.4V
50%	≤ 1.190	≤ 12.1V
25%	≤ 1.155	≤ 12.0V
0%	1.120	11.8V

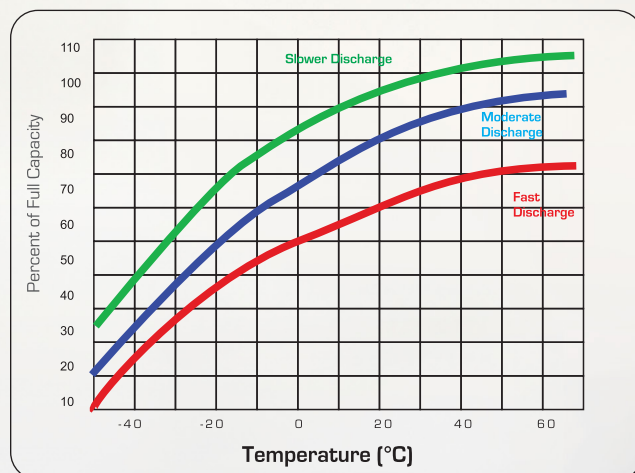
### Discharging Characteristics at various rates @ 27°C



### Service (Float) Life and Temperature



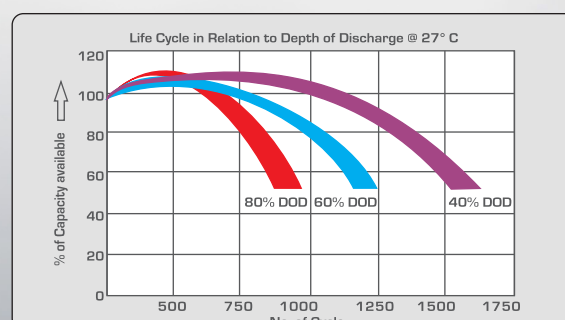
### Expected Capacity vs Temperature



### 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 0.0028 volt per cell for every 1°F below 77°F	0.005 volt per cell for every 1°C above 25°C or 0.0028 volt per cell for every 1°F above 77°F
	Operating Temperature	Self Discharge
OPERATIONAL DATA	-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



### TECHNICAL SPECIFICATIONS

Sr. No.	Model	Volts	Capacity C20	Maximum Overall Dimensions ( ±5mm)		
				Length	Width	Height
1.	PRTT 1000	12	100 AH	503	193	412
2.	PRTT 1400	12	140 AH	503	193	412
3.	PRTT 1600	12	160 AH	503	193	412
4.	PRTT 1800	12	180 AH	503	193	412
5.	PRTT 2000	12	200 AH	503	193	412
6.	PRTT 2200	12	220 AH	503	193	412
7.	PRTT 2400	12	240 AH	503	193	412
8.	PRTT 2600	12	260 AH	503	193	412



**SMARTEN POWER SYSTEMS LTD.**

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