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### Tall Tubular Battery (Thundercell)

Solar tubular batteries are commonly used in off-grid solar systems, where they store energy generated during the day for use during night time or when sunlight is not available. The tubular design of the positive plates enhances the battery's durability and performance in deep discharge cycles, which is common in solar energy storage systems. They are designed for deep cycle applications, meaning they can withstand frequent charging and discharging cycles without significant degradation. Solar tubular batteries often have a higher capacity compared to traditional lead-acid batteries, allowing them to store more energy per cycle.

### The Key Features of Tall Tubular Battery (Thundercell)

- ✓ 100% Tubular Technology
- ✓ 99.99% Pure Lead
- ✓ Quick Recharge Formulation
- ✓ Longer Life
- ✓ Low Maintenance
- ✓ Ceramic Water Level Indicator



### Advantage :-

- Energy Durability** : They are designed to withstand deep discharge cycles, which is common in solar energy systems. This makes them more durable and longer-lasting compared to regular lead-acid batteries.
- High Efficiency** : Solar tubular batteries are highly efficient in storing and delivering solar energy. Their design allows for effective charge acceptance and efficient energy conversion.
- Longer Lifespan** : They typically have a longer lifespan compared to conventional batteries. With proper maintenance, they can last for several years, making them a reliable investment for solar power systems.
- Deep Discharge Capability** : They can tolerate deep discharges without affecting their performance or longevity. This is crucial in solar systems where batteries frequently undergo deep cycling.
- Suitability for Off-Grid Systems** : They are particularly well-suited for off-grid solar systems where reliable energy storage is essential. Their robust design ensures continuous operation even in remote locations.

### Cautions :-

- Maintenance** : Regular maintenance is essential for solar tubular batteries. This includes checking electrolyte levels, ensuring proper ventilation, and topping up with distilled water as needed. Neglecting maintenance can lead to reduced battery life and performance.
- Overcharging and Undercharging** : Avoid overcharging or undercharging the batteries, as this can lead to damage and reduce their lifespan. Proper charge controllers and voltage regulators should be used to prevent these issues.
- Temperature Sensitivity** : Solar tubular batteries are sensitive to temperature extremes. They perform best within a certain temperature range (usually around 25-30°C). Extreme heat or cold can affect their efficiency and lifespan.
- Disposal and Recycling**: When the batteries reach the end of their lifespan, they should be properly disposed of or recycled according to local regulations. Lead-acid batteries contain hazardous materials and should not be discarded in regular trash.

### Technical Specification

Battery Name	Model Number	Type Of Battery	Battery Capacity	Warranty
ThunderCell	SLTC - 17060	C 20	170 Ah	36 + 24 * M
	SLTC - 20060		200 Ah	
	SLTC - 23060		230 Ah	
	SLTC - 17084	C 10	170 Ah	60 + 20 * M
	SLTC - 20084		200 Ah	
	SLTC - 23084		230 Ah	