



COMBO WALL MOUNTED PURE SINE WAVE UPS WITH LiFePO4 LITHIUM BATTERY BANK

Cutting the cord on Traditional Backup Power:
Innovation Tech Redefines Reliability



**950 Li with 1024Wh/12.8V
Lithium Battery**



**1200 Li with 1280Wh/12.8V
Lithium Battery**



**2500 Li with 2.24KWh/22.4V
Lithium Battery**



**5500 Li with 4.48KWh/44.8V
Lithium Battery**



INTRODUCTION



Powering Your Peace of Mind: Why a Lithium Battery and UPS Combo is the Ultimate Backup Duo

In today's tech-driven world, power outages are more than just an inconvenience. They can disrupt work, halt entertainment, and even compromise critical processes. That's where the humble Uninterruptible Power Supply (UPS) comes in, providing a vital lifeline during those dreaded blackouts. But what if you could boost your UPS's capabilities and enjoy even greater peace of mind? Enter the Lithium Battery and UPS Combo, a game-changer in the backup power game.

Su-vastika's Certifications



Superior Lithium Battery Technology

The Pure Sine Wave UPS with Lithium Battery harnesses the power of advanced lithium battery technology to provide a range of benefits over traditional lead-acid batteries.



Patent Certificate

Difference between Tubular and Lithium battery

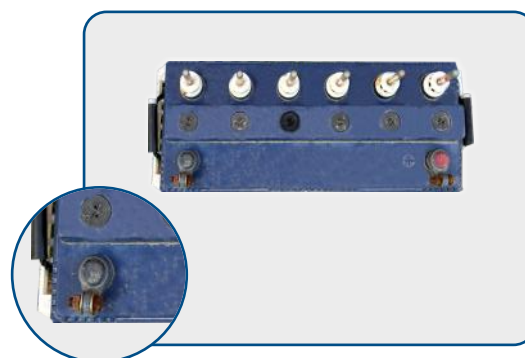
- Capacity :** Tubular battery comes in C20 Capacity or Solar battery comes in C10 capacity. The Lithium battery comes C1 capacity, hence More powerful.
- Clean technology vs Polluted technology:** People using Tubular batteries in their homes and offices are breathing Lead fumes because the Tubular Lead Acid batteries emit lead-based fumes, which are very harmful to the people inhaling them. Lithium batteries do not emit any toxic fumes or pollution.
- Space and weight of Tubular Vs Lithium battery:** The comparison between Tubular and lithium batteries is again a shocking revelation as a 150 Ah tubular battery is 65 Kgs of weight, and you need two people to carry the battery and install it in an office or home whereas the Lithium battery of 1 KW is just 10 Kgs of weight which any one person can install in the home and offices. Space saving is another factor as there is no need to install a trolley, it is wall mountable and consume one-sixth of the size of a Tubular lead Acid battery.
- There is no BMS inside the Tubular battery to control cell equalization:** One of the major differences is that the tubular battery has no electronic control over the charge-discharge current. Unbalanced cells reduce the life of Tubular battery. BMS in lithium battery equalizes each cell attached to the battery in series, hence increases battery life.
- Battery life in tubular vs lithium:** Lithium battery can easily last for ten years, whereas the life of the Tubular battery will be a maximum of 3 years. So one can easily see the price of Lithium is lower than Tubular.

Anderson Connector vs Tubular Battery Terminals

Su-vastika's Lithium Pure Sine Wave UPS and Battery come with Anderson Connector, which ensures that the installation engineer does not make mistakes while installing the Lithium Battery.



Lithium Battery with Anderson Connector







Tubular Battery with open Metal Terminals



Key Comparison between Tubular Batteries and Lithium Battery

Feature	Tubular lead acid battery (200Ah)	Lithium battery
Lifespan	2-3 years	7 to 10 years
Charging Time	13 - 15 hours (Approx)	4 to 5 hours (Approx)
High Voltage, Low Voltage, Overload, Short Circuit Protection	No	Yes
Maintenance	High	No
Equalization of Battery Cells	No	Yes
Capacity	C20	C1
BMS	No	Yes
MCB for Protection	No	Yes
Battery Connectors	Open Metal Connectors	Anderson Connectors

Model	UPS	Bulb Load	Lithium Battery	
Pure Sine Wave UPS 950 Li with 1024Wh LiFePO4 Lithium Battery	900VA	650W	1024Wh	
Pure Sine Wave UPS 1200 Li with 1280Wh LiFePO4 Lithium Battery	1050VA	725W	1280Wh	
Pure Sine Wave UPS 2500 Li with 2.24KWh LiFePO4 Lithium Battery	2500VA	2000W	2.24KWh	
Pure Sine Wave UPS 5500 Li with 4.48KWh LiFePO4 Lithium Battery	5000VA	4000W	4.48KWh	

Comprehensive Protection Features

The Pure Sine Wave UPS with Lithium Battery incorporates protection features to safeguard your valuable equipment and investment.

- **High-Voltage and Low-Voltage Protection:** Prevents damage from voltage fluctuations.
- **Overload Protection:** Shields against excessive power demands.
- **Protection:** Safeguards the battery and connected devices from short circuits.
- **Bidirectional technology:** It has a micro controller or microprocessor based technology for charging and discharging an inverter.
- **Isolation transformer:** It is an essential parameter before buying an inverter as it helps the life of the inverter and is a vital parameter to consider before buying an inverter.
- **IoT-based:** Bluetooth and Wi-fi to monitor all the inverter/UPS parameters.
- **Digital Warranty:** Paperless and convenient.
- **Battery MCB:** For Extra protection.
- **Battery Management System (BMS):** Equalises cells to increase battery life.



Su-Vastika Bluetooth/WiFi Monitoring App

Su-Vastika Bluetooth/WiFi Monitoring App Su-vastika Lithium system comes with Bluetooth and WiFi app that helps to monitor and control UPS through Mobile app or direct PC and loaded with the patented software.

This feature offers many advantages over regular Inverters/UPS.

- **Remote monitoring:** With Bluetooth and WiFi, you can monitor your UPS from anywhere worldwide, as long as you have an internet connection. This is ideal for homeowners who want to keep an eye on the power situation at home or office while they're away.
- **Real-time data:** Bluetooth and WiFi-enabled UPS can provide real-time data on your Inverter/UPS system performance. This data can be used to optimise your system's performance and troubleshoot any problems.
- **Inbuilt Digital Warranty:** The Digital Warranty gives you peace of mind as you don't need to keep any documents, and it works inside the microprocessor. The warranty works with the usage of the Inverter/UPS and not from the day you purchase the product.
- **Voltage and frequency:** In case of low or high Voltage, one can have the data recorded for the high and low voltages.
- Shows charging percentage of the battery

A Smart and Convenient Warranty Solution:

A Smart and Convenient Warranty Solution:

Su-vastika's Digital Warranty aligns with the actual usage of the Inverter. The warranty period starts only when the Inverter is connected to the Battery and pauses when the Battery is disconnected. This intelligent system ensures that warranty coverage is accurately tailored to the product's usage cycle. Su-vastika Pure Sine Wave UPS with Lithium Battery is a Bluetooth-enabled device that shows you the real-time digital warranty of UPS.

Digital Warranty

This revolutionary approach eliminates the hassle of physical warranty cards and provides consumers, dealers/distributors with unparalleled peace of mind.



Note: Guarantee is 3 years in 12 volt and 5 years in 24 and 48 volts combos



Tubular VS Lithium battery Backup Comparison of 12V System

Bulb Load	C20 Tubular Battery	1024Wh LiFePO4 Lithium Battery	
400W	150h/12V Tubular Battery	10 minutes more than 150Ah Tubular Battery	Weights of tubular Battery: 65Kg Weight of LiFePO4 Lithium Battery: 9.95Kg
600W	150h/12V Tubular Battery	10 minutes more than 150Ah Tubular Battery	
800W	150h/12V Tubular Battery	15 minutes more than 150Ah Tubular Battery	

Bulb Load	C20 Tubular Battery	1280Wh LiFePO4 Lithium Battery	
400W	200h/12V Tubular Battery	15 minutes more than 200Ah Tubular Battery	Weights of tubular Battery: 65Kg Weight of LiFePO4 Lithium Battery: 14.5Kg
600W	200h/12V Tubular Battery	20 minutes more than 200Ah Tubular Battery	
800W	200h/12V Tubular Battery	20 minutes more than 200Ah Tubular Battery	
1000W	200h/12V Tubular Battery	30 minutes more than 200Ah Tubular Battery	

Disclaimer: The comparative chart provided is based on testing conducted on branded lead-acid batteries with a C20 rating. Please be aware that there may be up to a 5% variation in measuring time.

Tubular VS Lithium battery Backup Comparison of 22V System

Bulb Load	C20 Tubular Battery	2.4kWh LiFePO4 Lithium Battery	
800W	150h/24V Tubular Battery	20 minutes more than 150Ah Tubular Battery	Weights of tubular Battery: 130Kg Weight of LiFePO4 Lithium Battery: 20.9Kg
1200W	150h/24V Tubular Battery	20 minutes more than 150Ah Tubular Battery	
1600W	150h/24V Tubular Battery	35 minutes more than 150Ah Tubular Battery	
2000W	150h/24V Tubular Battery	45 minutes more than 150Ah Tubular Battery	

Tubular VS Lithium battery Backup Comparison of 44V System

Bulb Load	C20 Tubular Battery	4.48kWh LiFePO4 Lithium Battery	
1600W	150h/48V Tubular Battery	20 minutes more than 150Ah Tubular Battery	Weights of tubular Battery: 260Kg Weight of LiFePO4 Lithium Battery: 39.8Kg
2400W	150h/48V Tubular Battery	30 minutes more than 150Ah Tubular Battery	
3200W	150h/48V Tubular Battery	35 minutes more than 150Ah Tubular Battery	
4000W	150h/48V Tubular Battery	35 minutes more than 150Ah Tubular Battery	

Disclaimer: The comparative chart provided is based on testing conducted on branded lead-acid batteries with a C20 rating. Please be aware that there may be up to a 5% variation in measuring time.

Technical Specifications

Model Name	950 Li	1200 Li	2500 Li	5500 Li	
Display Type	LED				
LED Display Features					
Mains On	Backup	Charge	Overload	Low Battery	ABS Active
Battery Low Protection	Overload Protection	Short Circuit Protection	Mains Trip Protection	High Temperature Protection	
INPUT PARAMETERS					
Phases	1 Phase 3-Wire				
I/P AC Voltage Range (W-UPS Mode)	80VAC-280VAC ± 10VAC		140VAC-280VAC ± 10VAC		
I/P AC Voltage Range (UPS Mode)	180VAC-265VAC ± 10VAC		180VAC-265VAC ± 10VAC		
OUTPUT PARAMETERS					
Voltage Regulation	220V ± 20%		220V ± 10%		
Phase	1 Phase 3-Wire				
Frequency regulation	50Hz±0.1Hz				
Output Waveform	Pure Sine Wave				
Overload	>100% Load				
Short circuit Protection	>200% Load				
Full load (Bulb Load)	650W	725W	2000W	4000W	
BATTERY PARAMETERS					
Type of Batteries	LiFePo4 Lithium Battery				
Battery KWH	1024Wh	1280Wh	2.24KWH	4.48KWH	
Battery Charge Method	CC-CV				
USER INTERFACE					
Remote Monitoring	Wi-Fi/Bluetooth				
Weight & Dimension of UPS					
Dimension LxWxH mm	315x300x130 mm	315x300x130 mm	300x300x285 mm	520x300x465 mm	
Weight	8.5Kg	10.5Kg	19Kg	39Kg	
Weight & Dimension of Battery					
Dimension LxWxH mm	257x231x213 mm	260x210x215 mm	500x220x180 mm	530x330x180 mm	
Weight	9.95Kg	14.35Kg	20.9Kg	39.8Kg	



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