



PURE SINE WAVE UPS Li 1100 WITH LITHIUM BATTERY BANK (910Wh, 1024Wh & 1200Wh)

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



Models Available:

Pure Sine Wave UPS Li 1100 with 910Wh Lithium Battery Bank
Pure Sine Wave UPS Li 1100 with 1024Wh Lithium Battery Bank
Pure Sine Wave UPS Li 1100 with 1200Wh Lithium Battery Bank

www.suvastika.com



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.



Difference between Tubular and Lithium battery

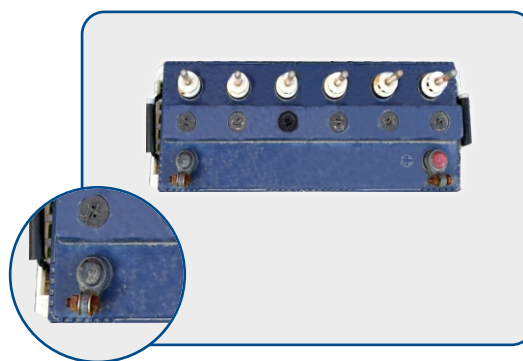
- **Capacity :** Tubular battery comes in C20 Capacity or Solar battery comes in C10 capacity. The Lithium battery comes in C1 capacity, hence More powerful.
- **Clean technology vs Polluted technology:** People using Tubular batteries in their homes and offices are breathing Lead fumes because the Tubular 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-ion 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 Pure Sine Wave UPS and battery come with the 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 Lithium and Tubular Batteries

Feature	Lithium battery 1200Wh	Tubular lead acid battery (200Ah)
Lifespan	7 to 10 years	2-3 years
Charging Time	4 to 5 hours	15 hours
High Voltage, Low Voltage, Overload, Short Circuit Protection	Yes	No
Maintenance	No	High
Equalization of Battery Cells	Yes	No
Capacity	C1	C20
BMS	Yes	No
Size and Weight	13-14 Kgs	58-65 Kgs
Fuse for Protection	Yes	No
Battery Connectors	Anderson Connectors	Open Metal Connectors

Model	Inverter	Bulb Load	Lithium Battery	
Pure Sine Wave UPS Li 1100 with 910Wh Lithium Battery	1000VA	700W	910Wh	
Pure Sine Wave UPS Li 1100 with 1024Wh Lithium Battery	1000VA	700W	1024Wh	
Pure Sine Wave UPS Li 1100 with 1200Wh Lithium Battery	1000VA	700W	1200Wh	

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.



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.

MADE IN INDIA



**COMBO PACK
COMES WITH
3 YEARS WARRANTY**



Tubular VS Lithium battery Backup Comparison of 12V System

Bulb Load	12V/120Ah Tubular Battery	910 Wh Lithium Battery	
400W	2:15 Hours	10 minutes more than 120Ah Tubular battery	Weight of Tubular Battery:- 55Kg Weight of Lithium Battery:- 8Kg
600W	1:10 Hours	10 minutes more than 120Ah Tubular battery	
800W	0:45 Hours	15 minutes more than 120Ah Tubular battery	

Bulb Load	12V/150Ah Tubular Battery	1024Wh Lithium Battery	
400W	2:50 Hours	10 minutes more than 150Ah Tubular battery	Weight of Tubular Battery:- 62Kg Weight of Lithium Battery:- 8Kg
600W	1:30 Hours	10 minutes more than 150Ah Tubular battery	
800W	1:00 Hours	15 minutes more than 150Ah Tubular battery	

Bulb Load	12V/200Ah Tubular Battery	1200Wh Lithium Battery	
400W	3:30 Hours	10 minutes more than 200Ah Tubular battery	Weight of Tubular Battery:- 66Kg Weight of Lithium Battery:- 13Kg
600W	1:50 Hours	10 minutes more than 200Ah Tubular battery	
800W	1:15 Hours	20 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.

Technical Specifications



Model Name	Pure Sinewave UPS Li 1100
Display Type	LED

LED DISPLAY FEATURES

MAINS ON	BACKUP	CHARGE	OVERLOAD	LOW BATTERY	ABS ACTIVE
BATTERY LOW PROTECTION	OVERLOAD PROTECTION	SHORT CIRCUIT PROTECTION	MAINS MCB TRIP PROTECTION	HIGH TEMP. PROTECTION	

INPUT PARAMETERS

Phases	1 Phase 3-Wire
I/P AC Voltage Range (W-UPS Mode)	80VAC-280VAC ± 10VAC
I/P AC Voltage Range (UPS Mode)	180VAC-265VAC ± 10VAC

OUTPUT PARAMETERS

Voltage Regulation	220V ± 20%
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)	700W

BATTERY PARAMETERS

Type of Batteries	Lithium Batteries
Battery Wh	910Wh / 1024Wh / 1200Wh
Battery Charge Method	CC-CV

USER INTERFACE

Remote Monitoring	Wi-Fi/Bluetooth
--------------------------	------------------------

WEIGHT & DIMENSION

Dimension (LxWxH)	260 x 165 x 230 mm
Weight Net ±0.5Kg	12.1Kg



Customer Care No.: +91 9711774744



info@suvastika.com, export@suvastika.com