

COMBO - SOLAR MPPT PCU WITH LITHIUM BATTERY BANK



Models

Solar Combo Li 1500/12V with Battery Bank 1024Kwh Solar Combo Li 2500/24V with Battery Bank 2.4Kwh Solar Combo Li 5500/48V with Battery Bank 4.8Kwh



Unleash the sun's potential! Solar lithium UPS systems are the smarter, sleeker way to keep your critical equipment humming during blackouts. Ditch the heavy lifting, the toxic fumes, and the frequent replacements of leadacid batteries. Upgrade to the next generation of backup power: solar lithium. It's lightweight, lasts years longer, and fuels itself from the sky.



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.



Su-vastika's Certifications

Certified excellence: Our ISO [standard] reflects our commitment to quality you can trust.



Increased Efficiency:

- Higher energy density: Lithium batteries can store more energy per unit weight and size than lead-acid batteries. This translates to a smaller and lighter overall system, which can be beneficial for space-constrained installations.
- Lower self-discharge: Lithium •
 batteries lose less charge when not in
 use compared to lead-acid batteries.
 This means you'll get more use out of
 your stored solar energy.
- Faster charge and discharge rates: Lithium batteries can charge and discharge much faster than lead-acid batteries, allowing you to quickly tap into your stored energy when needed and capture more of the available solar power throughout the day.

Improved Performance and Longevity:

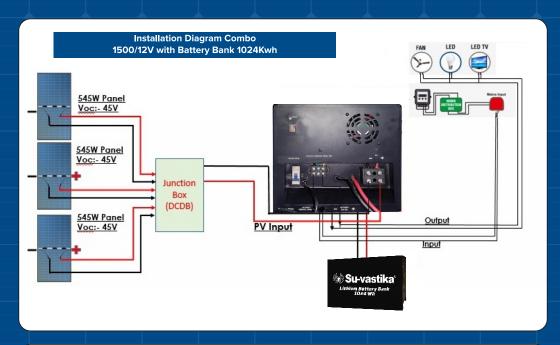
- Longer lifespan: Lithium batteries typically have a lifespan of 7-10 years, compared to 2-3 years for lead-acid batteries. This means you'll need to replace your batteries less often, saving you money and reducing environmental waste.
- Wider operating temperature range:
 Lithium batteries can perform well in a
 wider range of temperatures than leadacid batteries, making them suitable
 for a variety of climates.
- Deeper discharge cycles: Lithium batteries can be discharged to a much lower depth than lead-acid batteries without damaging them, allowing you to utilize more of their stored energy.

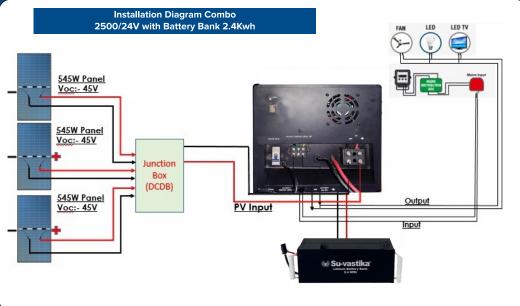
Other Benefits:

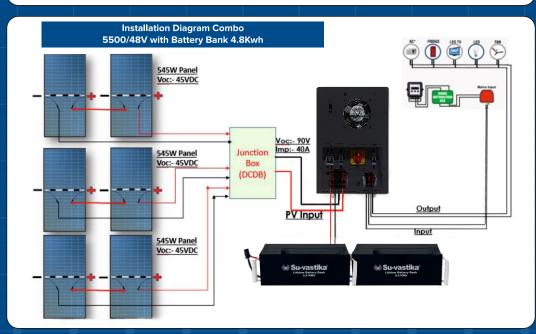
- Reduced maintenance: Lithium batteries require minimal maintenance compared to lead-acid batteries, which need regular watering and electrolyte checks.
- Improved safety: Lithium batteries are generally considered safer than lead-acid batteries, as they do not contain hazardous materials and are less prone to overheating and explosions.
- **Environmental benefits:** Lithium batteries are recyclable and contain fewer harmful materials than lead-acid batteries.
- The Pollution of Lead in the Air: Tubular Lead Acid batteries create lead and oxygen gasses, which are dangerous for the health of people staying around. Lithium batteries are sealed, pollution-free, and safer than tubular lead-acid batteries.



1. Installation Diagram of various Combos:



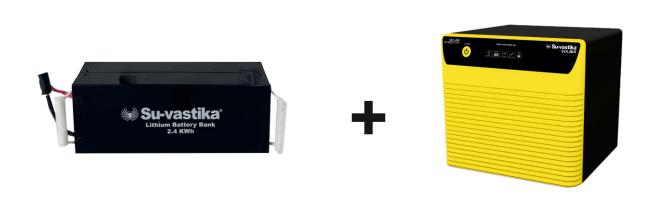




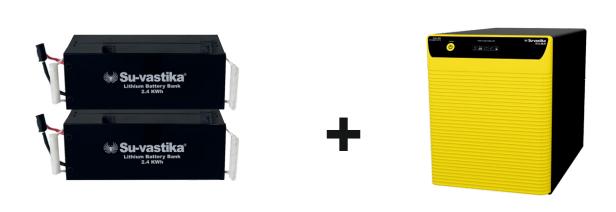
2. Available with Lithium Battery Bank:



Combo 1500/12V with Battery Bank 1024 Kwh



Combo 2500/24V with Battery Bank 2.4Kwh



Combo 5500/48V with Battery Bank 4.8Kwh

3. Smart and Convenient Digital Warranty:

Su-vastika's Digital Warranty: Say goodbye to lost paperwork and unfair coverage. This smart application tracks real usage, starting when your PCU powers on and pausing when it is off. Enjoy worry-free protection with Bluetooth/Wi-Fi access to your warranty status anytime, anywhere.

Paperless Warranty just pure peace of mind.





4. Take control of your power with a single glance.

Our intuitive app delivers a real-time dashboard of your UPS, unveiling its hidden potential. Monitor battery health, track solar energy harvesting, and see if the grid's playing nice – all in one convenient interface. No more guessing, no more surprises, just complete power awareness at your fingertips.

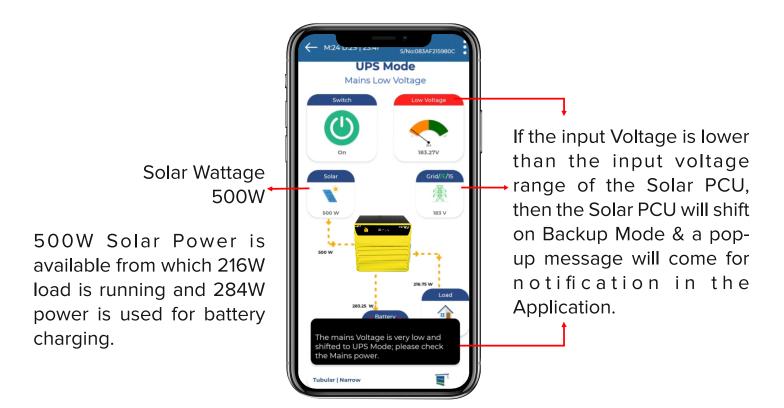
Solar Priority Selection - Automatic

500W Power is required for battery charging which is Available from Solar, So all required power is taken from Solar and disconnected from the Mains.



Mains are available but not connected by UPS because the required power for battery charging is sufficient from Solar.

Solar Priority Selection - Automatic



5. 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

6. 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. Short-Circuit
- Protection: Safeguards the battery and connected devices from short circuits.
- Bidirectional technology: It has a microcontroller 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: Technology means Bluetooth and a built-in Wi-fi facility to monitor all the inverter/UPS parameters.

Pure Sine Wave Technology designed for IT loads & Sensitive Appliances **Automatic Fast** Charging **Bypass Inbuilt MPPT Built-In Isolation Solar Charge Controller Transformer** **** 1 4 **Using Bi-Directional Easy Installation** Technology Plug and Play Resettable switch for Uninterrupted Mains protection **Power Inbuilt BMS Cold Start**

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7. Technical Specification

Model Name			Li 1500		Li 2500		Li 5500	
Display Type			LED					
LED DISPLA	Y FEATURES							
Mains On Backup		Charge	Overload		Solar available		Low Battery	
IBattery Low Protection 1		Overload Protection	Short Circuit Protection	Mains Trip Protection		Solar Not available		High Temperature Protection
INPUT PARA	AMETERS			Į.				ļ.
Phases			1 Phase 3-Wire					
I/P AC Voltage Range	UPS Mode		180VAC-260VAC ± 10VAC		180VAC-260VAC ± 10VAC		180VAC-260VAC ± 10VAC	
	W-UPS Mode		85VAC -95VAC ± 10VAC		85VAC -95VAC ± 10VAC		140VAC -150VAC ± 10VAC	
OUTPUT PA	RAMETERS							
Voltage Regulation		220V ± 20%		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)		980W		2000W		4000W		
BATTERY PA	ARAMETERS							
Type of Batteries			Lithium Batteries					
Battery KWH			1024Wh		2.4KWh		4.8KWh	
Battery Charge Method			cc-cv					
USER INTER	RFACE							
Remote Monitoring			Wi-Fi/Bluetooth					
SOLAR CHA	ARGE CONTR	OLLER PAR	AMETERS					
SCC Type			МРРТ					
SCC Rating		12V/40A		24V/40A		48V/40A		
SCC Voc		50V	DC	50VD	С		90VDC	

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