



SALEM **SURYA** BATTERIES

Committed Power

IS 9001 : 2015 CERTIFIED



SURYA LITHIUM SERIES

We congratulate you for your excellent choice of our Power Wall which incorporates with advanced DSP based MOSFET PWM PURE SINEWAVE technology with LFP Battery which was equipment friendly with Smart Battery Management System. Hope you shall be fully satisfied with our Power Wall for years to come. We are providing our best service after sales.

**USER MANUAL &
WARRANTY CARD**

SAFETY PRECAUTIONS

- ▶ Before installing the ups, read all instructions of this user manual.
- ▶ Do not exposed the UPS to rain, snow, direct sunlight, liquids of any type or close to heat emitting source.
- ▶ Be sure that the area around the system is well ventilated.
- ▶ To reduce risk of electric shock, disconnect all the wirings from the UPS before attempting any maintenance or cleaning.
- ▶ UPS should be properly connected with ground.

About Power Wall

Power Wall is the device that powers the electric appliances in the event of the power failure. The PWM circuit generates a PURE SINEWAVE around 50Hz that super impose the AC generated by the inverter transformer. And its Inbuilt LFP Battery pack with Smart Battery Management System provides additional safety and Maintenance free operation.

WARRANTY CONDITIONS

- ▶ Every PowerWall is inspected and tested thoroughly before leaving our premises.
- ▶ We undertake to repair this PowerWall free of cost for a period of 60 months from the date of purchase.
- ▶ The warranty does not cover any form of damage resulting from accident, misuse, application of incorrect voltage, fire and water etc.
- ▶ The warranty is not valid if serial no and or warranty seal of the PowerWall has been deleted, defected or altered.
- ▶ The company will not accept any responsibility for damage or loss incurred during transit of the PowerWall.
- ▶ This warranty does not cover any cost of transportation of the PowerWall from the installation place to service center vice versa.
- ▶ Any accessories connected to the system will not be covered under warranty..
- ▶ If the PowerWall is purchased from unauthorised source or dealer, the warranty will be null & void of lodging any claim. Customer have to produce warranty card and invoice.
- ▶ All disputes are subjected to salem jurisdiction.

Power Wall Front Panel



Inverter ON/OFF

LCD Display

LCD Indications

- ✓ Charging Amps
- ✓ Input Voltage
- ✓ Output Voltage
- ✓ Battery Voltage
- ✓ Load in Watts

Power Wall Side Panel



1. Socket
2. Circuit Breaker
3. Main Cable
4. Fan
5. Battery ON / OFF
6. Binary Switch

UPS	AUT	SOL-ON	NC
INV	TUB	SOL-OFF	NC



Power Wall Back Panel



Protection

- ▶ Overload (5 Times Auto Retry)
- ▶ Battery Low (5 Times Auto Retry)
- ▶ Over Temperature
- ▶ Short Circuit

Our Packaging List

ITEMS	QTY	PICTURE
Powerwall	1	
Warranty Card	1	
Wall Mounted Anchor Fastener	4	
Wall Mounting Bracket	1	

FEATURES

- ▶ DSP Controller Based PURE SINE WAVE UPS
- ▶ SMD Components gives more efficient and reduce human errors
- ▶ Resettable Circuit Breaker
- ▶ Smart LCD Display with Audible Alarm
- ▶ Built in Thermal Sensor
- ▶ SOLAR Compatible
- ▶ Charge controller, no mechanical contact for charger controller.
- ▶ Regulated Output Suitable for Smooth Operation of Motors. 0% Failure.
- ▶ Inbuilt LFP Battery with smart Battery Management System.

INSTALLATION - WALL MOUNTING

Mark the Mounting Positions :

- ▶ Place the wall mounting bracket on the Wall
- ▶ Use a spirit level to ensure horizontal alignment.
- ▶ Mark the drilling positions using a pencil.

Drill the Holes :

- ▶ Select drill bit according to anchor fastener size.
- ▶ Drill holes at the marked positions.
- ▶ Hole depth should be slightly longer than the anchor fastener length.
- ▶ Remove dust and debris from drilled holes.

Install Anchor Fasteners and Mounting Bracket :

- ▶ Insert wall anchor fasteners into the drilled holes.
- ▶ Tap gently using a hammer until fix with the wall surface.
- ▶ Position the mounting bracket over the installed anchors.
- ▶ Tighten screws firmly using screwdriver or spanner.
- ▶ Verify bracket stability.

Lift and mount the Power Wall Unit:

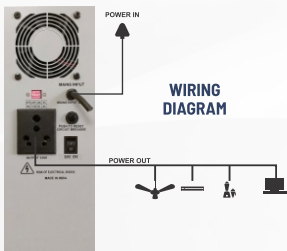
- ▶ Carefully lift the POWER WALL unit.
- ▶ Align the rear mounting hooks with the wall bracket.
- ▶ Slowly lower the unit onto the bracket.
- ▶ Ensure proper locking into the mounting slot.

WALL MOUNTING BRACKET



Mounting Area

INSTALLATION - ELECTRICAL



Mains Supply → POWER WALL → Load Distribution

Important Safety Notice :

- ▶ Electrical installation must be carried out only by a qualified electrician.
- ▶ Ensure mains supply is switched OFF before wiring.
- ▶ Incorrect wiring may damage the inverter and connected appliances.

Turn on Procedure :

- ▶ Connect the AC power cord to Mains Input.
- ▶ Connect the output of power wall to the load Distribution cable.
- ▶ Verify the line, Neutral and Earth are connected properly.
- ▶ Turn ON Battery Switch on the side panel of Power wall
- ▶ Turn ON Inverter power button on the front of Power Wall
- ▶ Check LCD display for
 - ◆ Battery Voltage, Output Power, Output AC Voltage, Fault Indication.
- ▶ Turn ON AC mains supply
- ▶ Check LCD display for
 - ◆ Battery Voltage, Charging Status, Fault Indication, Input / Output AC Voltage.

TROUBLE SHOOTING

- ▶ No output in inverter, check the ON/OFF switch.
- ▶ No output with long buzzer sound during mains, check the AC fuse backside the UPS.
- ▶ There is no battery charging indication, Check the input voltage.

Technical Specifications

S.No.	Model / Specifications	Surya Lithium Series
Inverter Specifications - 1kVA		
1	Input Voltage on Inverter Mode	90V - 290V \pm 10V
2	Input Voltage on UPS Mode	180V - 270V \pm 10V
3	Output Voltage on Mains Mode	Same as Input
4	Output Voltage on Backup Mode	220V \pm 10%
5	Output Frequency on Backup Mode	50Hz \pm 0.5Hz
6	Switching from Mains to UPS and from UPS to Mains	Automatic
7	Output Waveform on Mains Mode	Same as Input
8	Output Waveform on Backup Mode	Pure Sinewave
9	UPS Transfer Time	\leq 10m sec
10	Technology	DSP Based Design
11	Auto Reset Feature	Yes
12	Operating Temperature	0°C - 45°C
13	Protections	Overload / Battery Low / Over Temperature / Short Circuit
Battery Specifications		
1	Cell Chemistry	LiFePo4
2	Cell Form Factor	Prismatic
3	Battery Capacity (AH)	100
4	Battery Nominal Voltage (VDC)	12.8 / 25.6
5	Max Charging Current	0.25C
6	Max Discharging Current	0.5C
7	Operating Temperature (°C)	0 to 50
8	Cabinet Protection	IP 20
9	BMS	Smart BMS with BT

*Note : ♦ Power Factor may vary depending upon the load.

♦ Because of a policy of continuous product improvement, specifications are subject to change without notice

WARRANTY CARD

Customer Name

Product Name

Address

Date of Purchase

Mobile No

Model No.
QR Code
Serial No.

SURYA LITHIUM 1128 - 1000VA/1280WH

SURYA LITHIUM 2256 - 2000VA/2560WH

Dealer

Unit 1 : 76,75,73 & 80 The Salem Industrial Co-op. Estate,
Udayapatty, Salem - 636 140.

Unit 2 : Plot No.F-19, Industrial Area, Phase-1,
Ram Nagar, Varanasi - 221 110, Uttar Pradesh.

TAMILNADU. INDIA.

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