

SU-KAM OFFICES ADDRESSES

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REGD.OFF.: WZ-1401/2, NANGAL RAYA , NEW DELHI-46

PKG-ML- 098

USER'S MANUAL (IFU)

Fusion
Series

DSP SINE WAVE HOME UPS

Salient Features

- Designed Using World's Most Advanced DSP Technology.
- Runs Computer Along With Other Appliances.
- User Selector Switch for Computer / Air-Conditioner Operation.
- Fuzzy Logic Controlled Five Stage Battery Charger.
- Dual Selection for Battery Charging .
- User Friendly LCD Panel.
- Battery Water Topping Reminder.
- Smart Overload & Short Circuit Protection.
- Automatic Protection For High and Low Voltage.
- Smart Thermal Management.
- Great Power Saving.

GLOBAL CERTIFICATIONS:

ISO 9001 : 2000
ISO 14001:2004

R&D
Recognised
by
GOVERNMENT OF INDIA
MINISTRY OF SCIENCE & TECHNOLOGY

Before connecting, operating, or adjusting this unit, please read this instruction booklet carefully .

PKG-ML- 098

Customer care: +91 - 124 - 4170561-566

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Introduction

Dear Customer,

We feel immense pleasure that you are now proud owner of Su-Kam DSP Sine Wave Home UPS, Fusion Series designed and developed using state of the art DSP technology .

The Distinguished Features of Su-Kam DSP Sine Wave Home UPS are:

- Designed Using World's Most Advanced DSP Technology.
- Runs Computer Along With Other Appliances.
- User Selector Switch for Computer / Air-Conditioner Operation.
- Fuzzy Logic Controlled Five Stage Battery Charger.
- Dual Selection for Battery Charging .
- User Friendly LCD Panel.
- Battery Water Topping Reminder.
- Smart Overload & Short Circuit Protection.
- Automatic Protection For High and Low Voltage.
- Smart Thermal Management.
- Great Power Saving.

Knowing Your DSP Sine Wave Home UPS

In its most basic form, a Home UPS transforms Direct Current (DC) to Alternating Current (AC). The battery bank with the UPS acts, as a reservoir to ensure continuous supply of power whenever supply from utility power is not available.

A) DESCRIPTION OF FRONT PANEL:

On the front panel of DSP Sine Wave Home UPS there is one UPS ON/OFF switch and a LCD panel.

PARAMETERS DISPLAYED ON LCD PANEL OF DSP SINEWAVE HOME UPS

1. Mains not Available & Home UPS Switch in OFF Condition.

- | | | |
|----|----|----|
| a. | b. | c. |
| d. | e. | f. |

2. Mains not available & Home UPS Switch in ON Condition.

Whenever there is no mains & Home UPS is switched ON, Home UPS performs Self-Test for once to check the status of the Home UPS. If there is any fault, Short Ckt., Over Load the display shows only the fault after Welcome Note.

- | | | |
|---|--|---|
| a. | f. | j. |
| b. | • LCD display shows all digits as shown above. | • H/W and S/W Revision |
| c. | g. | k. |
| d. | • Either buzzer O.K. or Faulty. | • If self test fails then restart the system once or twice. If still the problem exist call the Service Engineer. |
| • System checks itself for any fault before starting in the following sequence. | h. | |
| e. | • Battery Voltage. | |
| | i. | |

After The Above Messages, Following Messages are Displayed in Cyclic Order:

- | | | | |
|----|----|----|----|
| a. | b. | c. | d. |
| e. | f. | g. | |

The above five message keeps scrolling on the LCD panel displaying Home UPS Parameters one by one in the sequence shown above till Mains Input recovers.

3. Mains available & Home UPS Switch in ON Condition.

- | | | |
|----|----|----|
| a. | b. | c. |
|----|----|----|

Displays Battery status in mains mode. Whether Battery is charging or Charged.

Mains Input voltage & Frequency.

- d.

BATTERY CHARGING [.....]

 or

BATTERY CHARGED []

 e.

FAN STATUS : ON OR OFF UPSTEMP : NORMAL OR HIGH
--

 f.

MODE : UPS/W-UPS

Under Various Protection Condition

1. Overload Occuring -With Buzzer Beep 2. Overload Shutdown Occurred

- a.

* ATTENTION * OVERLOAD > 100%

 b.

** REMEDY ** REDUCE SOME LOAD

 c.

* PROTECTION * OVERLOAD SHUTDOWN

 d.

REDUCE LOAD AND RESTART UPS

This display shows that Home UPS is in Over Load Condition (condition 1, See above), i.e., the running load (VA) on the Home UPS is above the rated system capacity, In this case system resets itself automatically and makes 4 attempts to turn ON again. If the overload continues even after the 4th attempts, it turns OFF permanently (condition 2 above) and will turn ON after the switch on the front panel is turned OFF and then turned ON.

3. Short Circuit Occurred -With Buzzer Beep

- | |
|--|
| * PROTECTION *
SHORT CKT./ OVERLOAD |
|--|

** REMEDY ** CHECK WIRING AND REDUCE LOAD AND RESTART UPS
--

This Display shows that Short Circuit has occurred in the Output and Home UPS has gone into Shutdown immediately with continuous buzzer beep. Switch OFF the Home UPS. Switching OFF Home UPS will stop beeping the buzzer immediately. Now remove Short-circuit and then switch ON the Home UPS.

Note :- Repeatedly switching ON the Home UPS when short circuit is present at the output may damage the Home UPS.

4. Low Battery Attention -With Buzzer Beep

- | |
|------------------------------|
| * ATTENTION *
BATTERY LOW |
|------------------------------|

** REMEDY ** REDUCE LOAD OR SHUTDOWN UPS

This display is shown when battery goes down to a limit during discharge. It will start displaying (Condition 4, See above) When battery voltage falls below 20% of its rated capacity. The buzzer will start beeping and the Home UPS will Shut off after few minutes. In this condition Home UPS will make four attempts to restart again and if low battery continues, it turns off permanently (condition 5). It will turn ON only when ON/OFF switch on the front panel is turned OFF and then switched ON.

5. Low Battery Protection - Without Buzzer Beep

- | |
|-------------------------------|
| * PROTECTION *
BATTERY LOW |
|-------------------------------|

6. Mains MCB Trip

- | |
|----------------------------------|
| * PROTECTION *
MAINS MCB TRIP |
|----------------------------------|

** REMEDY ** SWITCH ON THE MCB

AT BACK PANEL & RESET THE SWITCH

This Display shows when the Mains MCB Trips.

First Switch OFF The Mains and Home UPS then Switch ON MCB and Reset the Switch to ON.

7. Mains Low Cut (UPS Switch ON)

- a.

MAINS LOW CUT UPS ON

 b.

BATTERY : ___ V [.....]

 c.

O/P VOLT : ___ V O/P FREQ : ___ HZ

- d.

O/P LOAD :% [.....]

 e.

POWER CUT TIME HH : MM : SS

 f.

FAN STATUS OFF UPS TEMP : NORMAL / HIGH
--
- g.

MODE : UPS/W-UPS

This display shows Mains Low cut protection. In this condition system comes on Home UPS mode and the Mains will get cut off. The above message keep on scrolling on the LCD panel displaying above parameters one by one till Mains recover.

8. Mains Low Cut (UPS Switch OFF)

- a. **MAINS LOW CUT UPS SWITCH OFF**
- b. **I/P VOLT : __V
I/P FREQ : __HZ**
- c. **CHARGING CURRENT SELECTION AT 12A**
- d. **BATTERY : __V
[||||]**
- e. **FAN STATUS : OFF
UPSTEMP : NORMAL/HIGH**
- f. **MODE : UPS/W-UPS**

In this condition the system gets permanently shutdown but battery keeps charging with 2-3 amps up to Main input voltage 140Volts.

9. Mains High Cut (UPS Switch ON)

- a. **MAINS HIGH CUT UPS ON**
- b. **BATTERY : __V
[||||]**
- c. **O/P VOLT : __V
O/P FREQ : __HZ**
- d. **O/P LOAD :%
[||||]**
- e. **POWER CUT TIME
HH : MM : SS**
- f. **FAN STATUS ON
UPSTEMP : NORMAL / HIGH**
- g. **MODE : UPS/W-UPS**

This Display shows Mains High Cut protection. In this condition, the system comes on Home UPS mode and the mains will get cut off. The above message keep on scrolling on the LCD panel displaying above parameters one by one till Mains recover.

10. Mains High Cut (UPS Switch OFF)

- a. **MAINS HIGH CUT UPS SWITCH OFF**
- b. **I/P VOLT : __V
I/P FREQ : __HZ**
- c. **CHARGING CURRENT SELECTION AT 16A**
- d. **BATTERY : __V
[||||]**
- e. **FAN STATUS : OFF
UPSTEMP : NORMAL/HIGH**
- f. **MODE : UPS/W-UPS**

In this condition the system gets permanently shutdown. For using, Home UPS should be switched ON if the battery is charged.

11. Charging Current Change With Selection Switch

- a. *** ATTENTION *
CHARGING CURRENT**
- b. **STATUS CHANGED
RESTART UPS**
- c. **FROM FRONT PANEL
TO ACTIVATE**

This is Displayed when charging selection switch at back panel is toggled, Restart Home UPS to activate the changed charging current.

12. Over Temp. Protection with Buzzer Beep

- a. **FAN STATUS : ON
UPSTEMP: HIGH**
- b. **PL. CHECK FAN AT
THE BACK PANEL**
- c. *** PROTECTION *
OVER TEMPERATURE**

This is displayed when system is overheated.

13. Temperature Sensor Fail Condition

- * ATTENTION *
TEMP. SENSOR FAIL**

14. After Every 3 Months Routine Reminder is Displayed

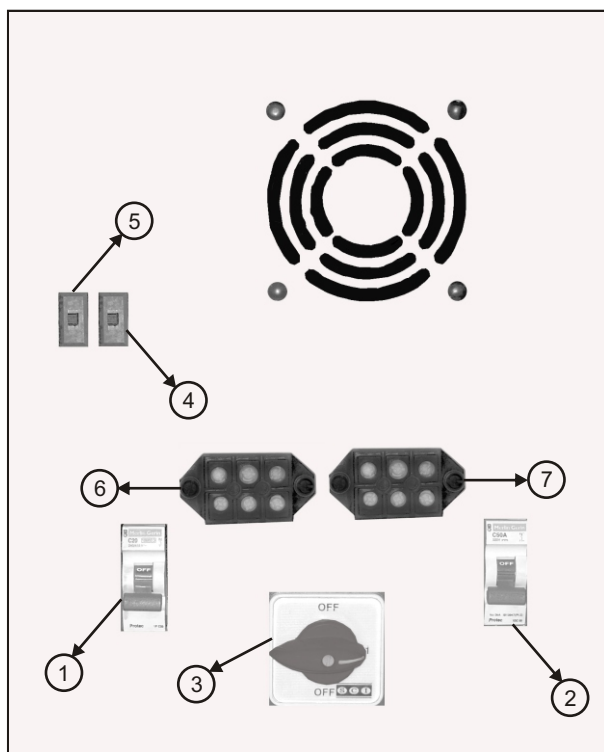
- a. **ROUTINE REMINDER
PL. CHECK BATTERY**
- b. **WATER LEVEL &
RESTART UPS**

B) DESCRIPTION OF BACK PANEL

- 1) **Mains Input MCB** : This isolates mains input from Home UPS.
- 2) **Battery MCB** : This isolates battery from Home UPS.
- 3) **Maintenance Bypass Rotary Switch** : A three position rotary switch is provided for
 - (i) Home UPS Output (ii) Output OFF (iii) Bypass
 - 1) **Home UPS Output**: This is the normal running position, when output is fed to the load.
 - 2) **Output OFF**: The output of system is disconnected from load.
 - 3) **Bypass**: The load is bypassed from Home UPS and is connected to Mains Supply only.
- 4) **Battery Charging Selection Switch** : Selector switch to adjust the battery charger for different battery capacity. Set 12A for 100 - 150 Ah Battery and 16A for 160 - 200Ah Battery. In case of frequent power cut, set the switch Position at high charging current (16A) to charge your batteries in lesser time.

- 5) Selection of Switch for UPS / W-UPS Mode :
If you want to run PC load select the switch to UPS mode.
Other wise keep the switch to W-UPS mode.
- 6) Input Terminal Block.
- 7) Output Terminal Block.

BACK PANEL



Quick Installation Guide

- 1) Mount the Home UPS securely in horizontal position in a clean, dry and ventilated enclosure.
- 2) Ensure that the front panel ON/OFF switch and battery MCB at the rear panel is in OFF position before you begin the installation.
- 3) Connect the positive terminal of the battery to the positive wire (RED) of the Home UPS and negative terminal to negative wire (BLACK) of the Home UPS. Immediately check the connections & switch ON Battery MCB.
- 4) Now connect the Output terminal to the load.
- 5) Switch ON the front panel switch and run the load without AC input Power. Place a load on the Home UPS and make sure it works.
- 6) Connect AC input supply to the input terminal such that Line is connected to the terminal marked 'L' ; Neutral is connected to terminal marked 'N' and Earth is connected to the Earth terminal marked 'E'.
- 7) Switch ON the mains MCB & Home UPS should now show 'Mains Present, Battery Charging' on the LCD. After the delay for mains synchronization (approx. 30Sec), the load is connected to mains & simultaneously the Battery starts charging.
- 8) Now disconnect the AC input power, the load should be transferred to the Home UPS mode immediately.

NOTE: - Never disconnect the battery cables while Home UPS is delivering power or battery charger is operating. The ON/OFF switch has no effect on the charger, it turns OFF only the Home UPS. To disconnect the batteries for service

- a) Turn OFF the power switch.
- b) Disconnect all AC power.
- c) Disconnect all the battery cables.

Enhanced Features

- **Battery Management Protocol (BMP)**

Su-kam Home UPS has highly advanced battery management algorithm that is designed to prevent damage to batteries and extend the useful life of your batteries by regulating the charging voltage and current. Batteries can overheat if the charge rate is too high.

- **ATM Charger**

ATM stands for Auto Trickle Mode. ATM with pulse charger is used for the first time in Home UPS. ATM with pulse charger, charges the battery to its full capacity and after charging, it maintains the battery at its float voltage level, so the water loss in battery is very less.

- **Auto Reset**

Su-Kam Sine Wave Home UPS has auto reset function in case of Overload, Low battery. It will reset the Home UPS in fault condition automatically and will make 4 attempts for the same.

- **Automatic Protection**

Low battery cutout, high battery cutout, over current and short circuit..

- **Intelligent Thermal Control**

Su-Kam Sine Wave Home UPS senses the overheating and displays the warning with buzzer beep. It also automatically shutdown the Home UPS in case of over temperature.

- **Auto Power Saving**

Fan control system takes care of operation of fan when ever necessary. This saves your power and also enhances the life of fan.

- **AC Mains Cut-Out**

Su-Kam Sine Wave Home UPS continuously monitors the AC mains Voltage. When AC voltage falls below the preset level, the Home UPS automatically transfers from AC to DC power. This cut out voltage is Factory preset as Per technical specification mentioned on Page 15.

Trouble shooting

SYMPTOMS	RECTIFICATIONS
Home UPS mode, but no output	<ul style="list-style-type: none"> ▶ Check the position of rotary switch at the back panel. ▶ Check if over temp. Shutdown protection is displayed. Allow the unit to cool down. ▶ Check if low battery protection is displayed. Allow the battery to charge. ▶ Check if overload/short circuit protection is displayed. Reduce load and switch OFF/ON front panel switch. Check wiring for short circuit.
Mains power is coming. Home UPS shows MCB trip on its LCD Panel.	<ul style="list-style-type: none"> ▶ Reduce load and switch ON mains MCB at the rear panel and restart Home UPS <p>If again the MCB trips, then Please check the mains wiring for short Circuit and call our customer care.</p>
Short circuit protection at the time of installation.	Input mains is connected to the output of the Home UPS. Please check & correct the Wiring Immediately
Buzzer beeps continuously with 'Charging current status changed' message is displayed.	Battery Charger status is changed from back panel. To activate restart Home UPS, else change the position of switch to previous mode.

Trouble shooting

SYMPTOMS	RECTIFICATIONS
Buzzer beeps with 'UPSTemp:High' & message is displayed.	▶ Check fan at the back panel. Shutdown UPS & allow it to cool down. If problem is repeated continuously, Please call our customer care.
Fan is not Running	Check the fan status at display panel, if fan status : OFF, then intelligent fan control mode is active. ELSE if fan status : ON, then call our customer care.
LCD displays 'Routine Reminder: PI check battery water level & restart Home UPS along with Buzzer beeps	This is a routine reminder that repeats after every 3 months. Please check battery water Level, do water topping & restart Home UPS. To ignore reset Home UPS.

Our Recommendations

- ✓ Never use Automobiles Batteries with your Home UPS. They are not suitable for these applications.
- ✓ Always use Deep cycle batteries that are best suited for Home UPS.
- ✓ Place the battery charger switch to 12A for (100-150Ah) and 16A for (160-200Ah).
- ✓ In case of frequent power cuts or in winters you may switch to 16A charging selection for fast charging of batteries.
- ✓ Always check the water level in batteries, when ever reminder for battery water topping (after every 3 months) occurs. This will keep your batteries in good condition & also enhance its life.
- ✓ Use good quality wires with Input and Output power terminals. Recommended wire ratings are

Capacity	DC Voltage	Input	Output	Battery Wire
2.5KVA	48	4 mm ²	2.5 mm ²	10 mm ²
3.5KVA	48	6 mm ²	4 mm ²	16 mm ²
5KVA	96	8 mm ²	6 mm ²	16 mm ²

- Never disconnect battery wires or switch OFF battery MCB while Home UPS or battery charger is operating.

Technical Specifications

MODEL : FUSION SERIES

INPUT PARAMETERS

W-UPS (Wide UPS Mode):

Mains AC Lower Voltage Limit : 140V±5V
 Mains AC Lower Recovery Voltage : 150V±5V
 Mains AC Higher Voltage Limit : 270V±5V
 Mains AC Higher Recovery Voltage : 260V±5V

UPS Mode:

Mains AC Lower Voltage Limit : 180V±5V
 Mains AC Lower Recovery Voltage : 190V±5V
 Mains AC Higher Voltage Limit : 260V±5V
 Mains AC Higher Recovery Voltage : 265V±5V

OUTPUT PARAMETERS (UPS Mode):

Output Voltage : 220V±5%
 Output Freq. : 50Hz±0.3Hz
 Output Freq in Mains mode : Same as Input
 Change Over Time : < 10ms

BATTERY PARAMETERS :

DSP Controlled PWM charging with soft start over full range of mains. (140V to 270V)

Maximum Charging current limit (Switch Selectable) : 12A±1A or 16A±1A
 Max. Float Voltage Level : 13.7V±0.2V/Battery
 Max. Boost Voltage Level : 14.3V±0.2V/Battery
 Battery Low Voltage Limit : 10.0V±0.2V/Battery
 Battery Type : 12V (SMF / Flooded)

ENVIRONMENTAL:

Acoustic Noise : <50 dB
 Operating Temperature : 0 to 40°C
 Storage Temperature : 0 to 45°C
 Relative Humidity : 0 to 95% Non-condensing

TECHNOLOGY :

- DSP based state of the art technology using MOSFETs.
- DSP controlled Fuzzy logic battery charger for optimum charging & enhanced battery life.

MECHANICAL:

Capacity	DC Voltage	Dimensions(DxWxH)			Weight
2.5KVA	48	395	245	350	27.3 Kg
3.5KVA	48	395	245	350	31.5 Kg
5KVA	96	450	245	425	45.0 Kg

***Note:** Due to Continuous product improvement specifications are subject to change without prior notice*

WARRANTY CARD

Fusion Series

Model No. :

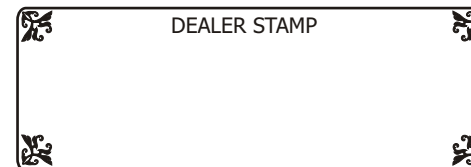
Serial No. :

Name of Purchaser :

Address :

Date of Purchase :

Dealer's Name :



Terms and conditions of warranty

- ★ SU-KAM POWER SYSTEMS LIMITED warrant to the original purchaser provided the product is still in possession of and used by the original purchaser from the date of purchase.
- ★ The warranty stands on all parts (except LCD's, switches and external body) for Home UPS will be for a period of 24 months.
- ★ The warranty will be automatically terminate on the expiry of the warranty period, even in case of the Home UPS not being in use in the specified period.
- ★ This warranty is valid only if it is duly signed by the authorized dealer.
- ★ The warranty will be invalid if defects arising in company's opinion by reasons of accident, abuse, misuse, neglect, improper installation (if not undertaken by the company or its representative), fire, flood, or other act of GOD and any other natural calamities and any other unauthorized repairs done or carried out will have to be borne by the purchaser. The problem of fuse blown will not be included in the warranty of the product. The services given for the same will be paid service.
- ★ The company is in no way or will be held liable for any loss or injury or damage caused to life or property or death and disability caused to any form of life for any reason whatsoever.
- ★ The warranty will not apply if the original seals are found broken or tampered with.
- ★ Free service under the terms of warranty will be provided only by authorized representatives/dealers of the company anywhere in India.
- ★ The company expressly denies the right of any person to incur or assure for it any other liability or obligation in connection with the sale of Home UPS.
- ★ Claims if any, to this warranty shall be made only before courts having jurisdiction in New Delhi.
- ★ Please send your queries, Complaints or Suggestions to info@su-kam.com or Customer care no: +91-124-4170561-566

