## SU-KAM OFFICES ADDRESSES

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Near Laggere Bridge, Lageere Bangalore-560058 PH-080-32471207 E-mail: blr@su-kam.com

389 Bomikhal Cuttack Puri Road Orissa, India Tel.: 0674-2585120,09238304724 Email: bhubaneswar@su-kam.com

SCO-215-217, 3rd Floor, Office No. 302, Sector-34 A. Chandigarh-160019, India Tel.: 0172-4648509, 09781382753 E-mail: chandigarh@su-kam.com

### CHATTISGARH

Flat No. 1, Govind Kunj, Civil Line, Near Jabal Fabricator. Raipur-492001 Chattisgarh India Tel.: 09371160624,09753406535 Email: chattisgarh@su-kam.com

### CHENNAL

1st Floor, 37 & 182, Mount poonar KJP Marriage Hall, Maduravayal Raod Porur, Chennai-600116, T.N., India Tel: 09600060196 09600060195 E-mail: vijaybabu@su-kam.com

### COCHIN

Door No-27/77; Plot No-188, 8th Cross Road Girinagar.Cochin Ernakulam-682020, Kerala, India Tel: 09895995651 09958170788 E-mail: cochin@su-kam.com

### DEHRADUN

55-A, Anupam Vihar, Lane No.-1 New Patel Nagar Dehradun, Uttarakhand, India Tel: 09971497566, 09997699973 Email: dehradun@su-kam.com

### DELHI

WZ-1401/02, Nangal Raya, Near Lajwanti Garden. New Delhi-110046, India Tel: +91-9971497566, 09971497492 Email: delhi@su-kam.com

### GHAZIABAD

A-13/7 Meerut Road Industrial Area Site-3 Near Uttam Toyota, Ghaziabad-20100 Tel: 09971497566, 09971497544 E-mail: gaziabad@su-kam.co

### **GUJARAT**

L-20/2 GIDC, POR, Ramangamdi, Tel: 09971497565 09662032433 Email: vadodra@su-kam.com

### HYDERABAD

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### INDORE

F-47, MIG Colony, Near Criestean Eminent School, Indore 452001 Madhya Pradesh, India Tel: 0731-3204887.09098890245 09926389002 E-mail: indore@su-kam.com

### **JAIPUR**

Plot No 69 Sudarshan Pura Ind. Area Baise Godown, Jaipur, Rajaethan India Tel: 09799414792.0141-3022864 E-mail: iaipur@su-kam.com

### JAMMU

Malik Market, Channi Rama, Bve Pass Road. Jammu - 180004 J&K. India Tel: 09971497566, 09419904733 E-mail: iammu@su-kam.cor

### GUWAHATI

ICE Factory Compound, R.G. Barnah Road, Nr. Assam State Guwahati-781005, Assam, India Tel: 09435191176 Email: guwahati@su-kam.com

### KOLKATA

Shade No-C09, Ground Floor 147, Neelgunj Road, Belgharia Kolkata-700056, West Bengal, India Tel: 033-25234751,09051837568 Email: kolkata@su-kam.com

### MUMBA

G-15, RNA Arcade, 1st Floor Cross Lane No. 3. Lokhanwala Comple Andheri (West), Mumbai-400058, India Tel: 022-40166900, 09004356905 09820585658, 09971497565 Fax.: 022-40166905 Email: bombayoffice@su-kam.com

Plot no. 28, First Floor, Prashant Nagar, Corporation Colony Near FCI Godown, Wardha Road, Nagpur-440015, India Tel: 0712-3297252, 09371160624 Email: nagpur@su-kam.com

### PATNA

House No-429, Ranu Niwas K.M. Singh Lane, East Boring Canal Road, Patna-800001, Bihar, India Email: patna@su-kam.com

### PUNE

### RANCHI

H.No. 242/B, Ashok Nagar Road No-1D, Ranchi-834002 Jharkhand, India Tel: 09304808275 Email: ranchi@su-kam.com

### LUCKNOW

E-170, Transport Nagar,

E20, SNO 163, Part Phursungi Village Phursungi, Meera Logistic & Warehous Co, Near Hotel Amantran Tal Havali Dist Pune India Tel: 020-26982369, 09850835681 09971494565 09371160624 Email: pune@su-kam.com

Lucknow, U.P., India Tel: 09936379561 Fmail: lucknow@su-kam.com

\* Please visit our website www.su-kam.com for updated addresses and contact details.

## Szu-Kam

SU-KAM POWER SYSTEMS LTD

Corp. Office: 54, Sec-37, Udyog Vihar Ph-VI, Gurgaon-122 001, Haryana (INDIA) Regd Office: WZ-1401/Z, Nangal Raya, New Delhi-110 046 (INDIA) Factory: Plot No. -64, DIC Industrial Area, Baddi, Dist. Solan-173 205, H.P. (INDIA) Factory: Plot No. -4, DLI Industrial Area, Baddi, Distt. Solan-1/3 205, H.P. (INUNA) Factory: Plot No. -198-C. & B, Uykog Vilan; Phase V, Sec 37, Gregon-122 001, Haryana, (INDIA) Now register your Product or launch online complaints at www.su-kam.com for prompt after sales services. Customer Care No: +91 -11 -44231111 Customer Care Email ID: customercare@su-kam.com

PKG-ML-174

PKG-ML- 174 Ref No.: SU/F-7.3.3.09(Rev. 00)

## **USER'S MANUAL (IFU)**

## **CHIC SERIES DIGITAL HOME UPS**

## Salient Features

- Electric Shock Proof PCABS Plastic Body.
- Micro Controller Based Digital Technology using MOSFETs.
- Very Fast Change Over Time.
- Run your Computer with other IT Equipments like Printer, Modem, Router etc.
- Extra Long Back-Up for Computers as Compared to Ordinary UPS.
- High and Low Input Voltage Protection for Connected Appliances.
- Fuzzy Logic Control based Battery Charger Technology.
- Reduces Frequency of Water Topping and Enhances Battery Life.
- Dual Selection for Battery Charging.
- Smart Overload and Short Circuit Protection with Auto-Reset.
- Automatic Low Battery Protection.
- Great Power Saving.
- User-Friendly Graphical Display.

### **GLOBAL CERTIFICATIONS:**

ISO 9001: 2000 ISO 14001:2004 MINISTRY OF SCIENCE & TECHNOLOGY GOVERNMENT OF INDIA

Before connecting, operating, or adjusting this unit, please read this instruction booklet carefully. Customer Care: +91 - 11 - 44231111



### CHIC SERIES

### CONTENT

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■ Digital Home UPS **——** 

### CHIC SERIES



### Welcome to SU-Kam

Dear Customer,

### Congratulations!

We thank you for your trust in Su-Kam products. We take pride in our reputation for product quality and industry proven performance. We are confident that you will be fully satisfied with it's performance and that it will serve your power back-up needs. This Digital Home UPS has been developed using state-of-the-art Micro controller based technology and FLC (Fuzzy Logic Control) based battery charger.

Su-Kam is committed to continual product improvement and feel the best way to accomplish this task is by listening to our valued customers. This commitment gets strengthened every time you buy a Su-Kam product.

Please read this manual to become familiar with its features and various applications.

# IMPORTANT SAFETY INSTRUCTIONS & PRECAUTIONS Before proceeding further kindly go through the safety instructions carefully.

- Before using the Digital Home UPS read all instructions and cautionary markings on the Digital Home UPS, Batteries and all the appropriate sections of this instruction manual.
- 2. Do not expose Digital Home UPS to rain, liquids of any type. The Digital Home UPS is designed for interiors only.
- 3. Do not disassemble the Digital Home UPS, take it to a Su-Kam Engineering Service Center when service or repair is required.
- 4. To reduce risk of electric shock disconnect all wiring before cleaning.
- 5. Do not cover your Digital Home UPS with any cover or cloth.
- Do not install this Digital Home UPS on or near flammable materials (Plywood, Chemicals, Gasoline etc.).
- 7. Be extra cautious when working with metal tools on and around batteries. It could short-circuit the batteries or other electrical parts producing the spark that could cause an explosion.
- 8. Never disconnect the battery cables while the Digital Home UPS is working.
- 9. Do not switch on the heavy load Refrigerators, Motor, Cooler, etc when Digital Home UPS is running on battery backup mode.
- 10. We recommend that you have point to point wiring of the Digital Home UPS.
- 11. This Digital Home UPS must be connected to the proper earth and permanent wiring system.

Digital Home UPS =

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### CHIC SERIES

### **FRONT VIEW:**









On the front panel of the Digital Home UPS there is one Power Active switch and a graphical symbol panel for indications.

- **I. MAINS ON:** This symbol indicates that incoming mains is available and display glows continuously. If mains fuse blown then display blinks with buzzer beep.
- 2. **INV. ON:** This symbol indicates that incoming mains is not available and the output is from the Battery.
- **3. BATT. CHARGING** / **CHARGED** : This white graphical glows intermittently during charging and glows continuously when battery is charged.
- 4. O.L./ SHORT CIRCUIT: This graphical symbol shows that either Short circuit has occurred or there is overload on the Battery mode. The Digital Home UPS resets itself automatically and makes 8 attempts in case of overload and 4 attempts in case of short circuit. During overload or short circuit this graphical symbol glows and the buzzer gives a intermittent beeps.
- 5. **LOW BATT.**: Digital Home UPS will shut down automatically after a few minutes. During this stage the graphical symbol glows and the buzzer beeps continuously and battery is discharged.
- **6. POWER ACTIVE SWITCH:** The ON/OFF switch at the front is to be pressed inside to ensure that the Digital Home UPS SWITCH ON in the

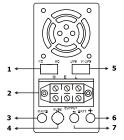


■ Digital Home UPS ■

### CHIC SERIES



### **BACK PANEL:**



- 1. Toggle Switch for Normal Charging (NC) / High Charging (HC) mode
- 2. 30A AC Output Terminal
- 3. 3 Core Input Wire (Mains Input for Digital Home UPS)
- 4. Fuse (6A/250V).
- 5. Toggle Switch for selecting W-UPS / UPS mode.
- 6. Positive Battery Wire (Red)
- 7. Negative Battery Wire (Black)

### TROUBLE SHOOTING

Symptoms	Rectifications	
Main power is coming. Digital Home		
UPS shows mains fuse blown on its	rear side of the Digital Home UPS.	
display panel.		
No power during backup mode.	Check if low battery graphic symbol is glowing, switch OFF the Digital Home UPS by power active switch. Allow the battery to charge when the mains is resumed before running the Digital Home UPS on battery again.	
Digital Home UPS does not operate.	(2) Check if overload/short circuit graphic symbol is glowing. Reduce load and reset the Digital Home UPS by Power Active switch.	
Digital Home UPS trips frequently at backup mode.	Check the battery connections and the mains connections	
	Reduce the load and restart Digital Home UPS through Power	
	Active Switch.	

Symptoms	Problem	Remedy
There is no output power	(I) Low Battery.	Check condition of batteries and recharge.
	(2) Loose or corroded batt. Connections.	Check and clean all connections.
	(3) Loose AC output connection.	Check all AC output connections.
System shuts down after 20 sec no display at all	Output of Digital Home UPS is wired back to its own input.	Check for proper AC input and output wiring.
Low/High AC output	Measuring with the wrong type Voltmeter.	Meter must be a true RMS reading meter.
Low surge power	Weak batteries, battery cable too long.	Refer to cable and battery recommendations in this manual.

■ Digital Home UPS ■

Back Panel & Trouble Shooting (3)



### CHIC SERIES

### **TECHNICAL SPECIFICATIONS**

MODEL	CHIC 650	CHIC 850
CAPACITY	650VA/12V	850VA/12V

### **VOLTAGE LIMITS NARROW WINDOW-UPS MODE (185V-265V ± 10V)**

Mains A.C. Low cut	185 ± 10V
Mains A.C. Low cut Recovery	190 ± 10V
Mains A.C. High cut	265 ± 10V
Mains A.C. High cut Recovery	260 ± 10V

### **VOLTAGE LIMITS WIDE WINDOW- W-UPS MODE (105V-285V ± 10V)**

Mains A.C. Low cut	105 ± 10V
Mains A.C. Low cut Recovery	120 ± 10V
Mains A.C. High cut	285 ± 10V
Mains A.C. High cut Recovery	275 ± 10V

### **OUTPUT PARAMETER**

Mains Output Frequency	Same as Input (45 Hz-55Hz)
Output Frequency	50.0 Hz. ± 0.1 Hz
Output Voltage with Full Load	200V-230V ± 25V
Overload	Above 110%
Short Circuit protection	>250% Load (Few msec)

### **BATTERY CHARGING**

FLC based Controlled SCR charging with Soft start over full range of mains 140V to 285V $\pm$ 10V	
Maximum Charging Current Limit	9.0 ± 1.0 Amp For NC Mode
	13 ± 1.0 Amp For HC mode
Charging Boost Voltage	13.9V ± 0.2V
Charging Float Voltage	13.6V ± 0.2V
Battery Lower Voltage Limit	10.2V ± 0.2V (Depending on Load)
Recommended Battery capacity 100AH-200AH	

Dimension (W XDX H) in mm	137 × 308 × 205	137 x 308 x 210
Weight(Kg)	8.0	8.7



Note: Specifications subject to change without prior Notice.

Digital Home UPS

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### CHIC SERIES



## Jerms 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 LED's, switches, Fuse and external body) for Digital Home UPS will be for a period of 2 Years.
- ★ The warranty will be automatically terminate on the expiry of the warranty period, even in case of the digital Digital 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 invalidated 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 will not be held liable in any condition 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 Digital Home UPS.
- ★ Claims if any, to this warranty shall be made only before courts having jurisdiction in New Delhi.
- ★ Now register your product or launch online complaints at **www.su-kam.com** for prompt after sales services.

Model No.	;
Serial No.	<b>:</b>
Address of Purchaser	:
	;
Date of Purchase	:
Address of Dealer &	:
Stamp	:

Digital Home UPS

Warranty

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