

APPLICATIONS

- Refrigerator • Air Conditioner • Fan • Tube Light • Television • Washing Machine • Room Cooler • Water Motor Pump
- Projector • STD PCO Monitor • Scanner • Printer • Fax Machine • Video Camera • Cell Phone battery charger etc.

LOAD BACKUP CHART FOR 2.5KVA/48V INVERTER

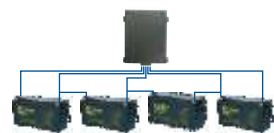
LOAD OPTIONS	29" T.V	FAN	TUBELIGHT	15W CFL	0.8 TON A.C / Room Heater	Air Cooler	REFRIGERATOR 220LTS	BACKUP TIME
					SUMMER			
Day	1	2	2	2	1	-	-	4 Hours
Day	1	2	-	4	-	1	1	6 Hours
Day	-	3	-	4	-	-	1	10 Hours
Night	1	2	2	8	-	1	1	7 Hours
Night	-	1	-	4	1	-	-	6 Hours
Night	-	3	-	4	-	-	1	11 Hours
					WINTER			
Day	-	-	2	2	1	-	1	6 Hours
Day	1	-	-	4	-	-	1	15 Hours
Night	-	-	-	4	1	-	1	6 Hours
Night	1	-	2	8	-	-	1	12 Hours

The Above Load Backup Chart is Calculated on Su-Kam's 200Ah SMF Battery.

LOAD BACKUP CHART FOR 3.5KVA/48V INVERTER

LOAD OPTIONS	29" T.V	FAN	TUBELIGHT	15W CFL	1 TON A.C / Room Heater	Air Cooler	REFRIGERATOR 360LTS	BACKUP TIME
					SUMMER			
Day	1	2	2	2	1	-	-	4 Hours
Day	1	2	-	6	-	1	1	5.5 Hours
Day	-	3	-	4	-	-	1	9.5 Hours
Night	1	2	2	8	-	1	1	6.5 Hours
Night	-	2	-	4	1	-	-	6 Hours
Night	-	4	-	6	-	-	1	10 Hours
					WINTER			
Day	-	-	2	2	1	-	1	5.5 Hours
Day	1	-	-	4	-	-	1	14.5 Hours
Night	-	-	-	4	1	-	1	5.5 Hours
Night	2	-	2	12	-	-	1	10.5 Hours

The Above Load Backup Chart is Calculated on Su-Kam's 200Ah SMF Battery.



Battery Equalizer
Su-Kam highly recommends that you use Su-Kam's Battery equalizer with any Inverter/UPS systems having more than 2 batteries in series. These equalizer will enhance your battery bank life & hence save you money by delaying the changing of your batteries. Also you get optimum life from your batteries.



SMF BATTERY
Su-Kam recommends Sealed Maintenance Free batteries. The safer alternative to the lead acid batteries as these do not emit harmful lead fumes. They do not require water topping either. Since they are maintenance free, you don't waste precious time to keep them in top condition.

RECOMMENDED INSTALLATIONS



1220L x 880H x 360 W (in mm)



1220L x 440H x 720W (in mm)



610L x 1760H x 720 W (in mm)

Su-Kam
powered by innovation

Su-Kam Power Systems Ltd.
Corporate Office: Plot No. 54, Udyog Vihar, Phase VI, Sector-37, Gurgaon -122001, Haryana, India
Tel: +91-124-4030700, 4170500, Fax: +91-124-4038700/1/2 E-mail: info@su-kam.com www.su-kam.com
Customer Care : 44231111

Global Certifications

ISO
9001:2000
ISO
14001:2004



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

Pure Sine Wave Inverters

Sine-I Series

2.5 – 3.5 KVA/48 V

PATENTED TECHNOLOGY

1 phase input - 1 phase output



World's
smallest
Air Conditioner running
Inverter

LIVE LIFE NON-STOP.



Su-Kam
powered by innovation

Sine-I Series 2.5 – 3.5 KVA/48 V

Su-Kam's Sine-i is the World's most advanced inverter as it is based on the world's most advanced DSP Sine Wave Technology. It provides steady source of 100% pure sine wave power to all the connected appliances. The power supplied by the Su-Kam Sine wave inverter is actually purer than the power supplied from the mains, a simple proof to this fact is that your appliances won't make any irritating, humming sound as they do on normal inverters available in the market.

Today almost all households have expensive electronic equipments like Double Door Refrigerator, Fully Automatic Washing Machine, Microwave Oven, Home theater System, Plasma TV, Air Conditioner etc. Unfortunately during power cuts, none of these equipments can be used because an ordinary inverter cannot supply the right kind of power to such sophisticated equipments.

However, Su-Kam's Sine-i inverter gives users the amazing advantage of being able to use all their most expensive & sensitive electronics appliances at all times.

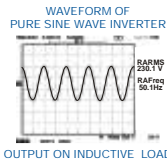


DSP Based PWM technology using MOSFET

DSP is one of the most powerful technologies and is meant for high speed processing applications. This will help in saving loss of power which happens during the process of power generation by a normal inverter, which in turn helps in reducing the electricity bills drastically.

DSP Si ne Wave
I nver ter

Mosfet test
O. K.



Pure Sinewave Output

Pure Sine Wave is 100% clean, regulated, completely stable and distortion free power which is absolutely safe for running the sophisticated appliances without humming & irritating sound.

Protection for your Appliances

A feature which will automatically switch on to the Battery mode in case there is extreme high or low voltage supplied from the mains, hence protecting your valuable equipments, connected through the inverter, from any kind of damage.

Mai ns Low Cut
I nver ter ON

Mai ns Hi gh Cut
I nver ter ON

Constant Supply of Power

The voltage supplied by the inverter during power failure will not differ with the increase or decrease in the load, hence delivering electricity consistently through inverter. The voltage & frequency at the battery mode will be consistent and will not be affected by increase or decrease in the load for example - The consistency in the speed of the fan.

O/P VOLT: 219. 6V
O/P FREQ. : 50. 0Hz

Fuzzy Logic Charging Technique

A unique patented technology that protects the battery, reduces frequency of water topping and enhances battery life by sensing the requirement of charging required by the battery.



Customized Charging Facility

Special provision of a Dual charging system has been in built into the Su-Kam Sine-i inverters wherein user can increase the speed of Charging of the batteries as per requirement. This feature is very useful in areas with high power cuts.

* *ATTENTI ON* *
Chargi ng current Status Changed

Chargi ng Current
Sel ecti on at 12A or 16A

Battery Water topping Alarm

Intelligent reminder for Flooded lead acid batteries. You will not have to remember as to when to top up the batteries. The message will be displayed after every 3 months.

Routi ne Remi nder
Pl. Check Battery Water
Level & Restart Inver ter

High Temperature Warning and Over Temperature Shutdown

Regular increase in the temperature can be harmful for the inverter; the increase in the temperature can be because of increase in the ambience temperature/faulty installation. Incase of excess heating, system displays warning and shuts down automatically, thus increasing the life of the system. The system automatically restarts itself after it regains its normal temperature.

ATTENTI ON
TEMP HI GH

PROTECTI ON
OVER TEMP SHUTDOWN

Power Fail duration on the LCD

Gives clear indication of the time duration from the time inverter is on, which in turn helps you to plan your consumption of electricity and it gives you an information about your battery life.

POWER CUT TI ME
02: 35: 15

Bypass Feature

Incise of maintenance of the battery/failure of inverter or during the servicing of the inverter, the customer himself can directly switch to the Mains by a simple twist of a switch, and will not need any electrician to remove any wires from the inverter.



Overload Management System

Incise of overload the inverter issues a warning to the user by switching "off" and "on" the power to the running appliances, the system gives the user chance to manage and identify the overload. Once the load is reduced the inverter automatically resumes its services and saves customer from physically going to the inverter and restarting it.

ATTENTI ON
LOAD > 100%

Auto Self Test

A personal Doctor for your Inverter, which will do regular self diagnostic tests and debug if required. It will keep a regular track of the health of the inverter system, hence increasing the efficiency and life of the system.

SELF TEST I N
PROGRESS . . .

SELF TEST:
PASS

Inbuilt Multimeter for displaying Input Voltage, Frequency & Battery Voltage.

Checks the quality/condition of power for input voltage and input frequency & the battery health and displays on the screen.

I /P VOLT: 228. 7 V
I /P FREQ: 50. 1 Hz

LCD Panel for Battery & Load Level indications

The LCD screen helps the user to manage the load and control the backup time. The LCD screen indicates the load level & battery level. It also helps in calculating the total life of the battery connected, by showing the total hours of backup generated by the batteries.

O/P LOAD: 79%
[■■■■■■■■]

BATT. LEVEL: 71%
[■■■■■■■■]

User friendly indications

The LCD screen and the alarm act as communication medium between the user and the system to provide comprehensive information about the condition of the system. User friendly indications on the LCD screen helps the user to manage the system with ease & comfort.

Fan Status: ON or OFF
INV Temp: Normal or Hi gh

SERVI CE: support@
su-kam. com

Generator compatible

Su-Kam Sine-i inverter is capable of charging on any kind of generator, as it can withstand the uneven power supplied by the generator and convert it into healthy power source. Also it helps you to consume the unutilized power of the generator to charge batteries, which helps in extending the life of the batteries and thus saving money.

Fuel Cell & Solar Energy compatible

A technological marvel with compatibility to the solar panels which helps in generating uninterrupted supply of power for hours as well as minimizing electricity bills.



* PROTECTI ON *
MAI NS MCB TRI P

REMEDY
SWI TCH ON MCB

AT BACK PANEL &
RESET THE SWI TCH.

Fault Detection

The system is intelligent enough to diagnose the faults and display it on the LCD panel with suggestive remedies, which helps the user to understand the nature of the problem and correct it on his own. For example Mains MCB trip, Short circuit etc.