

Saving Tonnes of Money With a Sukam Inverter



A Richtone Technology Limited Product brochure

FINALLY, WE CRACK THE POWER SUPPLY CODE FOR YOU!

Are You Fed Up With The Inconveniences Of The Persistent Power Outages And Looking Desperately For A Viable Solution?

Is Your Power Generating Set Draining Your Pocket Of Resources You Could Apply Profitably To Other Beneficial Purposes?

HERE'S THE DEPENDABLE, RUNNING COST-FREE, NO- HASSLES SOLUTION TO TRULY SET YOU FREE...

SU-KAM INVERTERS ... tested, trusted.

THE SUPERIOR SOLUTION TO YOUR POWER SUPPLY PAINS

- Saves you tonnes of money otherwise spent in running power generating sets;
- You simply tap, store and use power, absolutely for free;
- Sukam inverters are durable, top-performing and offered with a one year warranty.



10KVA Sukam



7.5KVA Colossal Series



5-10KVA ONLINE



2.5KVA Sine-i Series



1.4KVA & 800VA



Colossal Series 3.5KVA

Turn over to learn more...



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WEIGH THE FACTS, MAKE YOUR JUDGEMENT. TIME TO GET SMARTER WITH POWER

THE FAMILIAR SOLUTION IS LITERALLY A PAIN IN THE NECK
- Power Generators



The Scorecard

- ✓ **Generates power** to meet your power need.
- ✗ **Massive running cost** in fuel consumption. For every second of use, you must be burning fuel.
- ✗ **Huge maintenance costs** due to frequent breakdowns – extended usage easily overworks the unit. Soon needs a replacement.
- ✗ **Sizable budget on consumables:** oil, change-over, etc.
- ✗ **Unbearable noise pollution.** Quiet harm to your mental wellbeing.
- ✗ **Messy & Polluted Environment** – oil spills, unhealthy fumes, sucking of petrol and such health hazards.
- ✗ **Storage Handicap:** Because of the known hazards, where to store the gen is challenge.
- ✗ **Danger in the House:** Fires and carbon monoxide poisoning are some of the serious risks.

THE SMARTER SOLUTION WIPES YOUR PAIN & BRINGS TOTAL CONVENIENCE
- Power Inverters



The Scorecard

- ✗ **Doesn't generate power**, though makes up by tapping & storing.
- ✓ **Extended power supply** – Virtually 'always-on' power possibility
- ✓ **No running cost, Big Saving:** Doesn't use petrol or diesel.
- ✓ **Stable performance with virtually no maintenance costs** – except to change batteries when worn out.
- ✓ **Uses no consumables:** that's more money saved
- ✓ **Absolutely no noise pollution.** You enjoy peace from your inverter.
- ✓ **Clean equipment** – your inverter can even be in your bedroom if you choose.
- ✓ **Safe equipment, no storage headaches:** Can be anywhere in your home. Also not cumbersome.
- ✓ **Poses no peculiar danger in the house:** No fuel to start a fire or poisonous fumes that could harm.



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SUKAM INVERTERS PERFORMANCE FACTSHEET

■ **Why Are Sukam Inverters Branded Top-Performing, Reliable And Highly Durable?**

■ **What Specific Performance Parameters deliver the Outstanding results that Sukam inverters are credited with?**

Check these 6 Critical Performance Criteria for Inverters, Listed Below, and See How Sukam Ranks.

Simply Put, it's a Towering, Five-star Rating, all Through.

CRITICAL PERFORMANCE FACTORS FOR INVERTERS AND HOW SUKAM RATES – Contd.

| Factor | Expectation | Sukam Delivery | Rating |
|-------------------------------|--|---|--------|
| Inverter Switching Technology | An inverter requires a switching device which could be Mosfet, IGBT or Transistor. MOSFETs are the latest breed, with unique advantages and performance superiority. | <p>Sukam Inverters use MOSFET technology.</p> <p>Besides, Sukam inverters are built on MOSFET switching with Pulse-Width-Modulation (PWM) controls for highly regulated output voltage and superior performance. The high switching speed achieves 95% efficiency, meaning more backup time and less stress to batteries.</p> | ***** |
| Mains Power Sensing Circuit | An efficient sensing circuit is required to sense failure of mains and automate backup power supply | <p>Sukam inverters have a fast mains power sensing unit and quick switch-over, ensuring that most appliances won't sense a break in supply and will remain on.</p> <p>Sukam inverters' sensing circuits also detect bad voltages below 110V or above 280V and would switch to backup supply automatically.</p> | ***** |



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SUKAM INVERTERS PERFORMANCE FACTSHEET – Contd.

CRITICAL PERFORMANCE FACTORS FOR INVERTERS AND HOW SUKAM RATES – Contd.

| | | | |
|---------------------------------------|--|---|--------------|
| <p>Battery Charge Technology</p> | <p>Today's inverters have in-built battery charging mechanism. A quality inverter charging system must have tough voltage regulation to protect the batteries.</p> | <p>Sukam's silicon-controlled rectifier technology is a superior charge technology and best for battery charging. It's a CCCV (constant current constant voltage) charging system that ensures regulated charging voltage, irrespective of AC voltage (whether 150V or 270V, for example). That protects the batteries and gives optimal performance.</p> <p>What's more, Sukams advanced trickle charging mechanism ensures only a trickle charge to charged batteries and prevents damaging overcharging.</p> | <p>*****</p> |
| <p>Inverter Protection Mechanisms</p> | <p>The inverter works in a tough environment – power system bombardments and user actions – and needs tough in-built protection.</p> | <p>Sukam inverters' fast sensing unit detect unsuitable voltages – above 270V or below 110V and will switch to backup supply.</p> <p>Sukam inverters have overload protection with auto-resetting. You get alerted on overload and system can shut down if you fail to reduce load.</p> <p>The in-built short-circuit protection protects the equipment from otherwise damaging short-circuiting.</p> | <p>*****</p> |

SUKAM INVERTERS PERFORMANCE FACTSHEET – Contd.

CRITICAL PERFORMANCE FACTORS FOR INVERTERS AND HOW SUKAM RATES – Contd.

| Factor | Expectation | Sukam Delivery | Rating |
|-------------------------|---|--|--------|
| Battery Bank Protection | Because the battery bank is a major chunk of the setup cost, in-built battery protection is critical to efficient use of an inverter. Unprotected batteries could easily be damaged, leading the wasteful spending. | <p>Sukam has robust in-built battery protection with three key elements:</p> <p>Low Battery/Deep Discharge Protection: deep discharge is damaging to batteries and shortens their lifespan. Sukam inverters alert user on low battery and will shut down if no action is taken to reduce load (and extend carrying capacity of batteries) or turn off the inverter.</p> <p>Battery Overcharge Protection: Over-charging corrodes battery plates and shortens their lifespan. CCCV ensures regulated voltage to protect the battery plates, extend battery life and give optimal delivery.</p> <p>Reverse Battery Protection ensures that wrong connection of battery terminals will not result in damage.</p> | ***** |
| The Extras | Some more factors add to the overall rating of an inverter unit. For instance, the output power quality. | <p>Sukam inverters have superb voltage regulation, providing output voltage that's nearly constant, irrespective of battery condition or inverter load. Your equipment will thank you for the power quality.</p> <p>Sukam inverters provide pure sine wave power which is stable and clean, giving no humming sound in tube-lights and appliances and ensuring safety of your important gadgets.</p> | ***** |



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SUKAM INVERTERS

USER EXPERIENCE IS THE FINAL TEST

FINALLY, WHAT IT MEANS FOR YOU, THE USER

| | | | |
|---|----------------------------------|--|---|
| ✓ | Extended Backup Time | The high performance efficiency of Su-kam inverters means more backup time from your inverter. Extended power supply is your goal – that's what Su-kam delivers. Many more hours of free power supply |  |
| ✓ | No Running Costs | Just think for a moment: no petrol, no diesel, no oil, no generator mechanic, no expenditure. It sounds almost untrue, yet that's what you get. | |
| ✓ | Stable Performance | Su-kam inverters are built on solid, robust inverter technology that ensures you get stable performance to justify your investment. | |
| ✓ | Extended Battery Life | In-built battery protection means extended battery life, reduced expenditure on batteries and better overall performance. |  |
| ✓ | Stable Output Power | Clean output power of stable voltage is excellent for your sensitive appliances like laptops and other costly gadgets. |  |
| ✓ | Fully Automated Operation | The fast Mains Power Sensing circuit ensures your inverter switches to backup mode in less than a second of power outage with unnoticeable transition. Change to charging mode is also automated. Your Sukam is fully automated, needing no manual intervention. That saves you all the 'gen-operation' hassles. |  |
| ✓ | Durable Product Service | Sukam inverters are a long-term investment, based on stable technology. Their durability gives enough time to recoup your investment, over and over. | |
| ✓ | Total Convenience | That's exactly what you get from a Sukam inverter: the power you need, with no hassles. Period. | |

SUKAM INVERTERS

A RANGE OF LOAD CAPACITIES TO CHOOSE FROM

THERE'S A SUKAM CAPACITY TO MEET YOUR NEED

There's an inverter capacity to meet your need, but you have to balance desire with the cost. An inverter must have a battery bank to backup the power to function with and that could be one or many more batteries. That adds to the cost of set-up. You need to weigh the total cost implication, inclusive of battery bank cost, in choosing the capacity to use. Here are Su-kam capacity options to consider:

800VA/12V SU-KAM INVERTER



800VA output inverter, ideal for home or office use. Compact, space-saving unit, running on one battery only. Ideal battery capacity: 200AH/12V. Best for small family unit or business office. You will enjoy:

- Fast switch-over (no break) and long backup time – the core inverter benefits.
- Pure Sine Wave output that safely runs sensitive appliances.
- Fuzzy Logic Control – unique, advanced technology that protects the battery.
- Smart overload sensing mechanism and short circuit protection & high surge withstand.
- Automatic low battery cutout.
- Smart SMPS-based fast battery charger with automatic power factor correction.
- Peak power output 300%

This unit has the following load estimate (note: items can be swapped):

| | |
|-----------------------------|--------------|
| Desktop or Laptop or TV set | 1 unit |
| Satellite Decoder or VCD | 1 unit |
| Tube Light and CFLs | 3 units each |
| Fan | 3 units |

1.4KVA/24V SU-KAM INVERTER



1.4KVA offers more capacity than the 800VA, at 24V. With 2 units of 200AH 12V batteries as standard, you more comfortably take appliances or lighting at home or office. Plus its:

- High surge withstand (up to 300%).
- Extended backup time
- Instant switchover (avoid computer rebooting at power outage.
- Smart overload sensing mechanism and short circuit protection.
- Pure Sine Wave output that safely runs sensitive appliances.
- Automatic low battery cutout.
- Peak power output 300%

Estimated load capacity (note: items can be swapped):

| | |
|------------------------------|----------|
| Desktop or Laptop | 1 unit |
| TV set | 1 unit |
| Tube Light | 5 units |
| Fan | 5 units |
| Or CFL (Energy-saving light) | 12 units |



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SUKAM INVERTERS

A RANGE OF LOAD CAPACITIES TO CHOOSE FROM

2.5KVA/48V SU-KAM INVERTER, Sine-i Series



The 2.5KVA/48V Sukam inverter is a sizable capacity to meet an expanded range of home or office equipment. Runs on 4 units of 200AH 12V batteries, ideally. The manufacturer recommends this capacity for gadgets like: Microwave ovens, Room cooler, Washing machine, Plasma TV/LCD/DVD, Refrigerator, Printer, Scanner, Fax machines, Tube Lights/ Fans/ Bulbs. Features

- Extended backup time with high efficiency.
- Advanced DSP based PWM technology using MOSFET – that's high power drive.
- Built-in Automatic temperature controller to stabilize temperature.
- Fuzzy Logic Charging algorithm suitable for all type of batteries.
- Constant voltage and frequency.
- Auto self test for inverter on LCD panel.
- LCD panel for display and remedial actions.
- Free of spikes and surges.

Possible estimated load configuration (note: items can be swapped):

| | |
|--------------------------|--------------|
| Desktop or Laptop | 1 unit |
| TV set | 1 unit |
| Small Fridge | 1 unit |
| Satellite Decoder or VCD | 1 unit |
| Tube Light and CFLs | 3 units each |
| Fan | 4 units |

3.5KVA/48V SU-KAM INVERTER, Sine-i Series



Gain even more room for standard home or office application, with the 3.5KVA/48V Sukam unit. The 3.5KVA 48V Sukam is also run on a battery bank of 4 units. Good for Microwave ovens, Room cooler, Washing machine, Plasma TV/LCD/DVD, Refrigerator, PC, Printer, Scanner, Fax machines, Projector, Tube Lights/ Fans/ Bulbs. Plus:

- Extended backup time
- DSP based PWM technology using MOSFET.
- Fuzzy Logic Charging algorithm excellent for the battery bank,
- Constant voltage and frequency.
- User friendly LCD panel display on its operation.
- Auto self test on LCD Panel.
- Smart short circuit protection.
- Reverse battery polarity protection.
- Free of spikes and surges.
- Runs heavy loads

Possible estimated load configuration (note: items can be swapped):

| | |
|---------------------------|---------|
| Desktop or Laptop | 1 unit |
| Medium fridge | 1 unit |
| TV set | 1 unit |
| Tube Light | 3 units |
| Fan | 4 units |
| CFL (Energy-saving light) | 4 units |



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SUKAM INVERTERS

A RANGE OF LOAD CAPACITIES TO CHOOSE FROM

5KVA/96V SU-KAM INVERTER



The 5KVA/96V Sukam inverter offers sufficient capacity for most basic powering needs of a home or small to medium office setup. On a battery bank of 8 units of 200AH 12V batteries as standard, there is capacity to take more load. Typical items are: Microwave ovens, Room cooler, Washing machine, Plasma TV/LCD/DVD, Refrigerator, Printer, Scanner, Fax machines, Tube Lights/ Fans/ Bulbs. Features

- Extended backup time with high efficiency.
- Advanced DSP based PWM technology using MOSFET – that's high power drive.
- Built-in Automatic temperature controller to stabilize temperature.
- Fuzzy Logic Charging algorithm suitable for all type of batteries.
- Constant voltage and frequency.
- Auto self test for inverter on LCD panel.

| | |
|--------------------------|--------------|
| Desktop or Laptop | 1 unit |
| Plasma TV set | 1 unit |
| Freezer or 1HP AC | 1 unit |
| Satellite Decoder or VCD | 1 unit |
| Tube Light and CFLs | 3 units each |
| Fan | 5 units |

7KVA/120V SU-KAM INVERTER



This 7.5KVA/120V Sukam unit takes your load capacity into the heavy duty range, able to take on such heavy power consumption equipment as a deep freezer or AC unit, in addition to other basic appliances. It's large enough for office demands, including extended backup for server rooms or ATM units. Plus:

- Extended backup time
 - DSP based PWM technology using MOSFET.
 - Fuzzy Logic Charging algorithm excellent for the battery bank,
 - Constant voltage and frequency.
 - User friendly LCD panel display on its operation.
 - Auto self test on LCD Panel.
 - Smart short circuit protection.
- Possible estimated load configuration (note: items can be swapped):

| | |
|--------------------------|---------|
| AC | 1 unit |
| Fridge | 1 unit |
| Plasma TV set | 1 unit |
| Tube Light | 6 units |
| Fan | 5 units |
| Satellite Decoder or VCD | 1 unit |



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SUKAM INVERTERS

A RANGE OF LOAD CAPACITIES TO CHOOSE FROM

SU-KAM 10KVA 180V

SU-KAM 15KVA 360V

SU-KAM 20/30KVA 360V



For the big power loads, you will need to step up to higher Su-kam capacities. Freezers, air conditioners and other high power consumption equipment at home, for instance. Or for server suites, major equipment configurations and other uses in business offices. Or ATM units that require extended power backup. Hospital units and equipment that require regular power supply. Laboratories. Petrol pumps. And much more. **Depending on the total load, a 10KVA, 15KVA, 20KVA, 30KVA or higher capacity will need to be deployed.**

- Pure Sine Wave Output produces clean power.
- Running of heavy duty appliances/equipments.
- User friendly display and operation.
- Auto self test on LCD Panel (buzzer test, fan test, input and output supply, battery status)
- Free of spikes and surges.
- Built in Galvanic Isolation Transformer.
- Cold start.
- Fuzzy logic controlled battery charging.
- Low running cost.
- Smart short circuit and overload protection.
- Running efficiency of more than 92%.

Possible load configuration for a 10KVA:

| | |
|-----------------|---------------|
| Air Conditioner | 2 units 1.5HP |
| Fridge | 1 unit |
| Freezer | 1 unit |
| PC | 1 unit |
| TV | 1 unit |
| Light points | 8 |
| Fans | 8 |
| Decoder | 1 |
| Dispenser | 1 |

SUKAM FROM RICHTONE TECHNOLOGY, RISK-FREE. WHAT IF WE TOOK THE RISK OFF YOU?

BUY, RISK-FREE!

Our homes and offices are strewn with the relics of used equipment, some of which really failed to deliver to expectation. Investing in an equipment entails some risk, certainly, because it could fail to perform. For the Sukam inverters we offer you, here are the three pillars of protection we put at your disposal, to mitigate all purchase risk:

12 MONTHS Product Warranty

You buy with a **full year** effective manufacturer's warranty. That simply says that it's our responsibility to keep your equipment running in that period, at no extra cost to you, in respect of items covered in the warranty.

Our 7-Day Money- back Guarantee

Just what it says: within 7 days of installation, you can ask for your money back if the inverter fails to perform to stated standard. So, you have ample time to evaluate it in use to confirm it performs to your satisfaction.

Our Proprietary 'Guru' Installation

You wouldn't invest a significant sum in equipment that has a vital role in your home or office and leave it to untested hands to install. Installation can make or mar, but that's where we have our best strength. Our proprietary, fail-safe guru installation is the result of extensive experience with this product. We have customized our installation to local conditions and challenges. That's peace of mind for you.

PLUS...

Our Five-Star Customer Care & Tech Support

Take it for granted that you will get the best in care and attention from us, if you need any. Whether it is information and guidance you need or there is a technical issue requiring tech support, we will be there for you promptly and until every issue is satisfactorily resolved. That's a guarantee.



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SUKAM FROM RICHTONE TECHNOLOGY, RISK-FREE. WHAT TO DO

Ready to go?

Really, every single additional day of burning diesel or petrol and spending massively on generator maintenance is money down the drain, especially if you will eventually buy an inverter. If you rest that generator, it will save you lots of money and substantially extend the life of the generator since, it will only serve as an occasional charging backup. Why not cut the loss now? If ready, here's what to do:

| | |
|---|---|
| ■ | Contact us to discuss your requirement and identify the appropriate capacity for you. We may undertake a site inspection, at no cost to you , to evaluate your requirement. Contact information: 0702 638 7777; 0809 511 0155; 0803 313 7896 bestdeals@mygadgetsmaill.com No. 186 Ikorodu Road, Beside First Bank, Palmgrove, Lagos. |
| ■ | The appropriate pricing for your identified requirement and other options will be provided to you. |
| ■ | Implementation timeline is agreed. Usually, installation is in one day after a firm order. |
| ■ | Done. You are home and dry. |



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