

KSW4000VA4000W

Solarix Kingstar 4KVA Off Grid Pure Sine Wave Inverter

Product Overview

Solarix KingStar 4KVA 24VDC 60A Pure Sine Wave OffGrid Inverter- 60A PWM Solar Charge Controller , 4000w Rated Power, Max Watt Output 4KW Peak Efficiency 93%, Retail Box , 6 Months Warranty.



Specifications

About this product

The Solarix KingStar 4KVA Off-Grid Pure Sine Wave Inverter (KSW4000VA4000W) delivers a rated output of 4000W with a peak efficiency of 93% for solar power and battery backup applications. Featuring a 24V DC battery system, an integrated 60A PWM solar charge controller, and combined inverter and battery charging functionality, it is designed to support off-grid power installations. Compatible with lithium, gel, and lead-acid batteries, it also offers an LCD display, configurable charging settings, and built-in overload, over-temperature, and short-circuit protection. Buy this Solarix 4KVA solar inverter from our online store for your backup power and off-grid energy requirements in South Africa.

Overview Summary

The Solarix KingStar 4KVA 24V Off-Grid Pure Sine Wave Inverter is a multifunctional power solution combining a 4000W rated inverter, battery charger, and 60A PWM solar charge controller. It converts 24V DC battery power into 230V AC output for compatible electrical equipment, making it suitable for home backup power, small office installations, and off-grid solar systems.

With a peak efficiency of 93%, an integrated LCD display, and configurable charging options, the KingStar allows users to adjust battery charging current, AC or solar charging priority, and input voltage settings according to their installation requirements. Its support for lithium, gel, and lead-acid batteries provides flexibility when designing a compatible battery backup system.

Additional features include automatic restart when AC power returns, cold start functionality, and protection against overload, excessive temperature, and short circuits. The inverter can also operate with mains electricity or generator power as an AC input source.

Performance tier:4kW off-grid inverter for home and small office backup power systems

Uses:Solar power systems, home backup power, small office backup power, battery-based electricity supply, off-grid installations, compatible household appliances

Overview

The Solarix KingStar 4KVA Off Grid Pure Sine Wave Inverter is a multi-function inverter/charger, combining functions of inverter, solar charger and battery charger to offer uninterruptible power support with portable size. Its comprehensive LCD display offers user-configurable acceptable and .easy-accessible button operation such as battery charging current.AC/solar charger priority, and acceptable input voltage based on different applications.

Description

The Solarix KingStar 4KVA Off-Grid Pure Sine Wave Inverter is designed to combine solar energy management, battery charging, and AC power conversion in one unit. With a rated power of 4000VA and a stated maximum watt output of 4000W, it provides a central component for compatible off-grid and backup power installations.

The inverter operates with a 24V DC battery system and delivers 230V AC output at 50/60Hz. Its pure sine wave output is designed for compatible electrical equipment that requires a stable AC power supply. Supported battery types include lithium, gel, and lead-acid batteries, subject to the battery manufacturer's requirements and the inverter's configuration.

An integrated 60A PWM solar charge controller manages charging from a compatible solar panel array. The solar charging specifications list a maximum solar charging power of 1600W, a minimum solar voltage of 30V DC, and a maximum solar voltage of 105V DC. Correct solar panel configuration is essential to remain within the inverter's permitted voltage and power limits.

The built-in AC charger provides an additional charging option when compatible mains electricity or generator power is

available. The LCD display and control buttons allow users to configure charging current, select AC or solar charging priority, and adjust the acceptable input voltage range for different applications.

For additional operational flexibility, the KingStar includes automatic restart when AC input power returns and a cold start function. Overload, over-temperature, and short-circuit protection help protect the inverter during specified fault conditions. Its IP21 protection rating means that the unit should be installed in a suitable, protected indoor environment.

This inverter is suitable for users planning a properly designed solar or battery backup installation. Before purchasing, confirm the total continuous load, appliance starting requirements, battery capacity, solar panel configuration, and installation requirements with a qualified solar installer.

Features

The Solarix KingStar combines inverter, solar charging, and battery charging functions to simplify the design of a compatible off-grid power system.

- 4000W rated power: Designed to supply compatible electrical loads within the inverter's rated operating limits.
- Pure sine wave output: Provides a sinusoidal AC output for compatible household and office equipment.
- 24V DC battery system: Operates with a compatible 24V battery bank.
- 60A PWM solar charge controller: Supports solar battery charging within the specified voltage and power limits.
- 93% peak efficiency: Provides the manufacturer's stated peak conversion efficiency under applicable operating conditions.
- Multifunction inverter and charger: Combines DC-to-AC conversion with solar and AC battery charging functionality.
- LCD display and control buttons: Provides access to configurable charging and input settings.
- Adjustable charging current: Allows battery charging current settings to be selected according to system requirements.
- Configurable charging priority: Allows users to select AC or solar charging priority through the LCD settings.
- Adjustable input voltage range: Provides configuration options for different appliance and personal computer applications.
- Multiple battery chemistries: Supports compatible lithium, gel, and lead-acid batteries.
- Mains and generator compatibility: Accepts compatible AC input from mains electricity or a generator.
- Automatic AC recovery restart: Can restart automatically when AC input power is restored.
- Cold start function: Provides a cold start capability as specified by the manufacturer.
- Protective functions: Includes overload, over-temperature, and short-circuit protection.
- IP21 protection rating: Intended for installation in a suitably protected environment.

What's in the Box

- 1 x Solarix KingStar 4KVA Off-Grid Pure Sine Wave Inverter
- Retail packaging
- 6-month warranty

Battery cables, batteries, solar panels, mounting accessories, and other installation components are not confirmed as included in the supplied product information. Confirm the package contents before installation.

Specifications

- Brand: Solarix
- Product range: KingStar
- Model / product code: KSW4000VA4000W
- Product type: Off-grid pure sine wave inverter and charger
- Rated inverter power: 4000VA
- Rated watt output: 4000W
- Peak efficiency: 93%
- Battery input voltage: 24V DC
- DC input current: 156.3A

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Product Specification Sheet

- AC output voltage: 230V AC
- AC output frequency: 50/60Hz
- AC output current: 13A
- Supported battery types: Lithium, gel, lead-acid
- Solar charge controller: PWM
- Maximum solar charging current: 60A
- Maximum solar charging power: 1600W
- Minimum solar input voltage: 30V DC
- Maximum solar input voltage: 105V DC
- AC charger input voltage: 230V AC
- AC charger input frequency: 50/60Hz
- Maximum AC charging current: 60A
- AC charger input current: 16.3A
- AC charger DC output: 27V DC, 50A
- AC charger mode output: 230V AC, 50/60Hz, 13A
- Nominal PV voltage: 105V DC
- Display: LCD
- Charging settings: Configurable battery charging current and AC/solar charging priority
- AC input sources: Compatible mains electricity or generator power
- Restart function: Automatic restart when AC input power returns
- Cold start: Supported
- Protection functions: Overload, over-temperature, short circuit
- Operating temperature: -10 to 50 degrees C
- Protection class: Class I
- Ingress protection rating: IP21
- Net weight: 19.06 kg
- Gross weight: 20.32 kg
- Package dimensions: 56.5 x 38.3 x 18.8 cm
- Warranty: 6 months
- Packaging: Retail box

FAQ

What is the rated power of the Solarix KingStar 4KVA inverter?

The Solarix KingStar has a rated inverter power of 4000VA and a stated maximum watt output of 4000W. The connected load must remain within the inverter's rated limits and appliance starting requirements.

Does the Solarix KingStar include a solar charge controller?

Yes. It has an integrated 60A PWM solar charge controller with a stated maximum solar charging power of 1600W and a maximum solar input voltage of 105V DC.

What battery voltage does this inverter use?

The inverter uses a 24V DC battery system. The battery bank must be compatible with the inverter and configured according to the manufacturer's installation instructions.

Which battery types are compatible with the KingStar 4KVA inverter?

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Product Specification Sheet

The listed supported battery types are lithium, gel, and lead-acid. Confirm the selected battery's voltage, charging requirements, and compatibility before connecting it.

Can this inverter charge batteries from mains electricity?

Yes. The inverter includes an AC battery charger and can accept compatible mains electricity or generator power as an AC input source.

What is the output voltage of the Solarix KingStar?

The specified AC output is 230V at 50/60Hz, with a listed output current of 13A.

Can the inverter be used for home backup power?

Yes. It can form part of a compatible home backup power system. Suitability depends on the total connected load, appliance starting currents, battery capacity, and the available solar charging capacity.

Does the Solarix KingStar have overload protection?

Yes. The listed protection functions include overload, over-temperature, and short-circuit protection.

Can I connect any solar panel to this inverter?

No. The solar array must remain within the specified solar input voltage range of 30V DC to 105V DC and the stated maximum solar charging power of 1600W. A qualified installer should confirm the correct panel configuration.

What is the peak efficiency of this inverter?

The stated peak efficiency is 93%. Actual efficiency varies with operating load and system conditions.

What warranty is supplied with the Solarix KingStar 4KVA inverter?

The supplied product information states a 6-month warranty. Refer to the warranty documentation for the applicable terms and conditions.

Does the inverter include batteries and solar panels?

The supplied product information confirms the inverter and retail packaging but does not confirm that batteries or solar panels are included. Check the package contents before purchasing.

Product Information Online

For the latest product information, availability and purchasing details, please visit the product page:

Product page:

<https://www.comx-computers.co.za/KSW4000VA4000W-Solarix-Kingstar-4KVA-Off-Grid-Pure-Sine-Wave-Inverter-p-341867.php>

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Product Specification Sheet

For the most current and accurate product information, please refer to the product information available on our website. If any specification or other information differs from information published elsewhere, please confirm the details with us before relying on the information or making a purchasing decision.

If you identify an error or discrepancy, please report it to us so that we may investigate and correct it where necessary.