

150 WATT MSW INVERTER

SPECIFICATION	
Model:	HI-150P
Input voltage range:	10-15V DC
Input full load current:	15A
Output voltage (AC):	240V ±5%
Output socket:	1x
Output wave form:	Modified Sine Wave
Output frequency:	50 Hz
Continuous output power:	150W
Efficiency:	>90%
Input low voltage protection:	9.5V±0.5VDC
Input high voltage protection:	15.5V±0.5VDC
Output short circuit protection:	Yes
Automatic recovery after protection:	Yes
Cigarette plug fuse:	20A
Output voltage USB:	5V DC
Output current USB:	2.4Amp

12 MONTHS WARRANTY

QUALITY ASSURED

SCA

Value you can trust

150 WATT MSW INVERTER

INSTRUCTION MANUAL



HI-150P  
PLU: 564607

QUALITY ASSURED



Manufactured and packaged for SRGS PTY LTD ABN 23 113 230 050  
751 Gympie Road, Lawnton, Queensland 4501, Australia  
MADE IN CHINA

GENERAL PRODUCT SAFETY PRECAUTIONS

- SCA Modified Sine Wave inverters are designed for **indoor use only**, and are not water resistant or waterproof. Do not expose the inverter to water or liquids.
- To reduce risk of hazard, do not cover or obstruct the ventilation openings on the top or bottom of the inverter. Ensure ventilation is adequate and any vent holes in the battery or inverter are not blocked or obstructed.
- Do not install the inverter in a zero-clearance compartment. Overheating may result causing the thermal protection to shut the unit down until a safe temperature is reached. To avoid a risk of fire and electric shock make sure that existing wiring is in good electrical condition. Do not operate the inverter with damaged or substandard wiring.
- This equipment contains components which can produce arcs or sparks. To prevent fire or explosion do not install in sealed compartments containing batteries or flammable materials or in locations which require ignition protected equipment. This includes any space containing gasoline-powered machinery, fuel tanks; joints, fittings, or other connection between components of the fuel system.

SAFETY / WARNING FOR PERSONS

To avoid any personal injury please read the safety instructions below.

- This power inverter is not intended for use by children or infirm persons without supervision.
- Always wear the appropriate Personal Protective Equipment (PPE) when working near batteries. This includes gloves and eye protection.
- Do not use naked flame near a battery. Batteries generate explosive gasses during the charging process that may explode.
- Never smoke or light cigarettes near a battery.
- Remove personal metal items such as rings, bracelets, necklaces, and watches when working with a lead-acid battery.

FIRST AID

- For advice, contact the Poisons Information Centre in Australia (PH: 13 11 26) or the National Poisons Centre in New Zealand (PH: 0800 764 766)
- If battery acid makes contact with the skin or clothing, wash immediately with soap and water.
- If battery acid makes contact with the eyes, hold eyelids apart and flush the eye continuously with fresh running water for at least 15 minutes or until the Poisons information centre advises you to stop.
- If battery acid is swallowed, **do not** induce vomiting. Drink a glass of water and seek medical assistance.

INTRODUCTION

SCA Modified Sine Wave inverters are designed to efficiently and reliably power a wide range of 230/240V household appliances from a 12V automotive power source. Correct installation is imperative to get the best performance from your inverter.

Please read this operation manual fully prior to installation, and keep in a safe location for later reference.

Please pay special attention to **SAFETY** and **WARNING** statements in the manual, to prevent personal injury or damage to the inverter or connected equipment.

**IMPORTANT:** When using a power inverter it is important to remember that the inverter is drawing power from the battery and the battery levels should be monitored. A second, or separate, battery is ideal, as well as a means of charging the battery such as a generator or solar system.

If you are running an inverter from your vehicle starting battery the vehicle should be run regularly to recharge the battery to prevent a flat battery and a stranded vehicle.

Power inverters running at full load will quickly deplete even the largest automotive batteries. Please consider the maximum load and running time of the appliance and how you are planning on recharging the battery before installing and using this inverter.

MEASURING POWER REQUIREMENTS

Most electrical equipment will have a label advising of the maximum power consumption in Amps (A) or Watts (W).

To calculate requirements add all the power consumptions for the total of all items you want to power from the inverter, and ensure the total consumption does not exceed the capacity of the chosen power inverter, use the below formula.

AMPS X VOLTS = WATTS  
WATTS / VOLTS = AMPS

Example:

If you have an appliance rated at 0.9 Amps, multiply this by 230 Volts (AS/NZ3000.2, AS/NZ60038) and you will get a consumption rating of 207 Watts.

**0.9 Amps x 230 Volts = 207 Watts**

Please Note: *Resistive loads* (such as incandescent lamps) are the easiest items to power up with an inverter. Inductive motors (electric motors without brushes) power tools and some televisions may require up to 6 times the consumption rating to power up. We recommend you buy a larger model than you think you'll need (at least 10% to 20% more than your largest load).

**CAUTION: ENSURE THE CAPACITY OF YOUR DEVICE DOES NOT EXCEED THE INVERTER MAXIMUM RATING.**

**APPLICATION EXAMPLES**

This inverter has safety systems to prevent damage to the inverter or connected device in the event the connected load is too large, however care should still be taken when selecting the types of items to power from an inverter. For more information see **Inbuilt Safety Protections**.

- Power tools – circular saws, drills, grinders, sanders, buffers, air compressors, battery charger.
- Office equipment – computers, laptop power supply, printers, monitors, facsimile machines, scanner.
- Household items – vacuum cleaners, fans, fluorescent and incandescent lights, shavers, sewing machines.
- Kitchen appliances – coffee makers, blenders, mixers, toasters.
- Home entertainment electronics – televisions, DVD, game consoles, stereos, musical instruments.
- USB 5V devices such as phones and tablets may be operated directly from the 1 x 2.4A USB outlet on the front panel.

APPLIANCE TYPE	150W	400W	700W
USB CHARGER			
MOBILE PHONE			
FAN			
WORKLIGHT			
LAPTOP/PAD			
240V AIR PUMP			
TELEVISION			
POWER TOOLS (UP TO 350W)			
FRIDGE			
MICROWAVE			

SUITABLE

NOT SUITABLE

\*Not limited to these appliances



5V USB PORT

AC OUTPUT SOCKET

CIGARETTE PLUG

WARNING AND CAUTION

**WARNING**

**SHOCK OR FIRE HAZARD**

Keep all power inverter leads away from sharp edges and hot surfaces e.g. engine compartment or exhaust systems

This power inverter produces the same lethal AC power as a household power outlet. Do not insert foreign objects into the AC outlet or any other openings of the inverter. Do not open inverter, only allow a qualified tradesperson perform any repairs to the inverter. Never expose the inverter to rain, spray or snow.

Do not cover or block the ventilation vent of the inverter, do not install the inverter in an enclosed place.

**RISK OF EXPLOSION**

The inverter contains components that may produce sparks, never install the inverter in places that contain batteries, flammable materials or in places that contain ignition protected equipment.

CAUTION

The inverter must only be operated on a 12 volt battery, it will NOT operate on 24 volts.

The cigarette lighter plug can become hot with extended use and cause burns and personal injury.

INBUILT SAFETY PROTECTION SYSTEMS

- Overload Protection:** Will occur when the load connected to the inverter is greater than the inverters rating. If the overload is 110% or greater than maximum inverter capacity, the red LED on front panel will illuminate and output power will be cut. This protection state will automatically reset once overload has been removed.
- Over Temperature Protection:** Will occur when the internal inverter temperature goes above 65 °C, the red LED on front panel will illuminate, a warning beeper will also activate, and output power will be cut. If this occurs, power down the device and inverter and leave the unit to cool down. Check for operation of the cooling fans, and they are not blocked by dust or debris.
- Overvoltage Protection:** If the source battery voltage goes above 15.5V, the red LED on front panel will illuminate and output power will be cut off (there will be no beeping warning). Overvoltage indicates a problem with the source battery or charging system, and it should be checked immediately to prevent damage to the source battery. This protection will automatically reset one the overvoltage state is removed.
- Low Voltage Protection:** If the source battery level falls below 11.9 V, a low voltage input alert will beep along with a red flashing LED light on the display indicating the battery should be charged.

Pease Note:

Continued operation of the inverter will result in 240V power output shutdown once the source battery voltage reaches 11.7V. **Care should be taken to ensure the source battery remains charged if running refrigerators and medical devices where uninterrupted power is required.**

MAINTENANCE

Very little maintenance is required to keep your SCA Modified Sine Wave inverter operating properly. You should clean the exterior of the unit periodically with microfiber cloth to prevent accumulation of dust and dirt.

**CAUTION: ALWAYS ENSURE INVERTER IS SWITCHED OFF AND POWERED DOWN PRIOR TO ANY EXTERIOR CLEANING**

If dust is accumulating around the rear cooling fans on the unit, this can be cleaned by lightly vacuuming or gently wiping with a clean dry microfiber cloth. **DO NOT** use wet cleaning methods around the fan to prevent possible electric shock.

Frequently asked questions:

**Q. Why does the inverter turn itself off?**

A. Check that the SCA Modified Sine Wave inverter is not overloaded or that the source battery has enough voltage.

**Q. Is the SCA Modified Sine Wave inverter(400W & 700W MODELS ONLY) Reverse Polarity Protected?**

A. No. If you accidentally connect the inverter to the battery incorrectly (reverse polarity) a large current will be drawn by the inverter which could damage internal sensitive electronic components. Always double-check the battery polarity before making any connections.

**Q. Can I run my CPAP or RPAP Machine off an inverter connected to a source battery.**

A. Please check with you Medical Equipment provider to ensure that your equipment is safe to run off the SCA Modified Sine Wave inverter.

WARRANTY

This product is guaranteed against defects for a period of 12 months from date of purchase. This warranty is provided by SRGS PTY LTD, ABN 23 113 230 050 of 751 Gympie Rd Lawton QLD 4501 Ph (07) 3482 7500. Supercheap Auto will offer a repair, replacement product or store credit if the product is assessed as being defective during the warranty period.

To claim under this warranty, take this product to the Front Service Desk of your nearest Supercheap Auto store. For store locations, visit [www.supercheapauto.com.au](http://www.supercheapauto.com.au) (AUS) or [www.supercheapauto.co.nz](http://www.supercheapauto.co.nz) (NZ). You will need your receipt or proof of purchase. Additional information may be requested of you to process your claim. Should you be not able to provide proof of purchase with a receipt or a bank statement, identification showing your name, address and signature may be required to process your claim.

This product may need to be sent to the manufacturer to assess the defect before determining any claim. Faults or defects caused by product modification, misuse and abuse, normal wear and tear or failure to follow user instructions are not covered under this warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

Any expenses incurred relating to the return of this product to store will normally have to be paid by you.

For more information contact your nearest Supercheap Auto store.

The benefits to the consumer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods and services to which this warranty relates.