

VOLTCRAFT®

OPERATING INSTRUCTIONS



Version 06/09

Universal Isolating Transformer “IT 1500”

Item-No. 51 16 06

Introduction

Dear customer,

Congratulations for purchasing this product. We thank you for your excellent choice. You have purchased a product of above average quality, by a brand that proves itself to be particularly capable and is constantly innovating in the area of measurement technologies, charging units and network technologies. With Voltcraft you can solve challenging tasks like a professional user, but you can also pursue your hobbies in a professional manner.

Voltcraft offers you reliable technology at extremely reasonable value for money. We believe that your starting with Voltcraft is the beginning of a long lasting and worthwhile cooperation. The results will convince you.

We wish you a lot of fun with your new Voltcraft product!

Intended Use

An isolated transformer creates a galvanically isolated and a earth potential free output voltage (230V~/50Hz) that enables the operation of supply voltage-fed devices that are used for e.g. repairing/maintenance, and are required in laboratories.

With the help of the isolated transformer the danger of an electric shock when repairing or maintaining an electrical device is reduced, because when touching a defective device no electricity can flow through the body towards the earth. But there is still danger to life when both output poles are touched at the same time!

This isolated transformer is based on safety class II and has an output power of 1500VA. It can only be used on a power supply voltage of 230V~/50Hz.

Only one device can be connected or operated on the output of the isolated transformer.

Only one device that is suitable for operation on power supply voltage (230V~/50Hz) can be connected to the isolated transformer.

These Operation Instructions are for this product. They include important advice for the initial start-up and operation. Remember that even when you pass this product onto a third party. Therefore keep these Operation Instructions for reference!

Features

- galvanically isolated and an earth potential free output voltage of 230V~/50Hz
- each with one fuse for input and output
- on/off switch

Scope of delivery

- universal isolated transformer “IT 1500”
- operation instructions

Symbol description



The symbol of a lightning bolt in a triangle is used when there is danger to health, e.g., through electric shock.



The symbol of an exclamation mark in a triangle indicates a particular danger when handling, operating or using the device.



The “Hand” symbol will appear when special hints and advice for operation can be given.



This symbol shows that the device is equipped with double or increased isolation throughout.



Symbol for marking transformers with safety isolation.

Security and Danger Advice



All warranty claims will terminate when there is damage caused by non-observance of the Operation Instructions.



We do not bear any liability for consequential damages and damage to property and persons caused by incorrect handling or non-observance of the safety advice.

- The isolated transformer is CE-conform and complies with the required European guidelines.
- Because of safety and license reasons (CE) product alteration without authorisation is not permitted.

Do not disassemble this product! There is danger of hazardous electric shock!

- This product is built according to safety class II. Only a regular mains socket (230V~/50Hz) of the public electricity supply grid can be used as the voltage supply source.

- This product is not a toy and it is not permitted to let children play with it. Therefore pay particular attention in the presence of children.

- Check the product and the power cable for damage before each use. When you notice damage do not use this product any more. Disconnect it from the mains voltage by unplugging the power cord. Take this product to a repair shop or dispose of it in an environmentally friendly manner.

- Do not use this product shortly before, during and shortly after a storm (lightning! / high overvoltage!). Pay attention that your hands, shoes, cloths, the floor, the product or all cables/plugs, etc. are absolutely dry.

- Do not work with this product in rooms or under adverse surrounding conditions, where inflammable gases, vapours or dusts are or could exist.

- Avoid use in the immediate vicinity of highly magnetic or electromagnetic fields or transmitter antennas or HF-generators.

- The isolation of the whole product must not be damaged or destroyed. Do not drill any holes into the casing; do not drill any screws into it.

- The isolated transformer must not be connected to a direct current (DC) source. The isolated transformer only functions on alternating current (AC) (230V~/50Hz).

- Do not wear any metallic or conductive objects, like necklaces, bracelets, rings, etc., when using the isolated transformer or the user that is connected to it.

- There is hazardous voltage on the output of the isolated transformer when it is in operation! The output bushing must not be touched!

- This product must not be exposed to mechanical strain.

- This product must not be exposed to extreme temperature (<0°C or >40°C), direct sunlight, vibration or humidity.

This product can only be used in a dry indoor area; it should not get damp or wet; danger to life through electric shock!

- Condensation can develop when this product is brought from a colder room to a warmer room.

Wait until the isolated transformer has reached room temperature before connecting it to the voltage supply source. Otherwise there is danger of electric shock!

- Place the isolated transformer on a surface that is large enough, even and stable.

- Never insert items into the grill of the product or hinder the ventilation in any way. Never cover this product. Keep sufficient distance from other devices (at least 10cm).

- Do not place containers filled with liquid on or next to the isolated transformer.

- In industrial facilities accident prevention instructions of the accident prevention & insurance association for electrical equipment and utilities have to be followed.

- In schools, training centres, hobby and self-help workshops, the use of electric equipment has to be monitored by trained staff.

- A professional or a professional repair shop only can carry out maintenance, configuration and repair.

- Contact a specialist when you have doubt about the functioning, safety or connection of the device.

- Handle this product with care. Kicking, striking or dropping this device from a low height can still damage it.



- When you can presume that a safe operation is not possible you must put the device out of operation and you must secure it from unintended use.

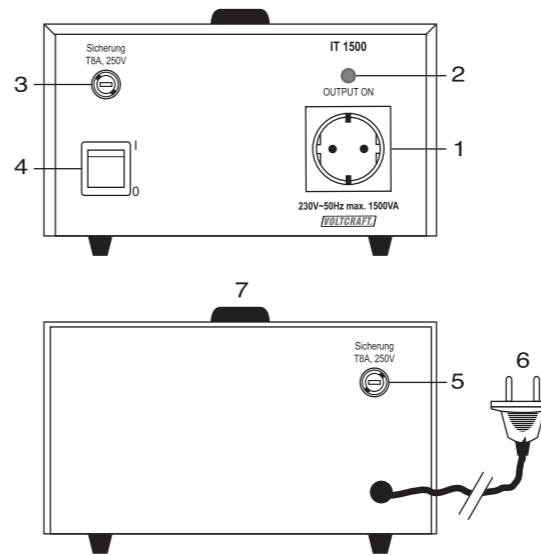
It can be presumed that a safe operation is no longer possible when:

- the product has visible damage
- the product no longer functions
- after a longer storage period under improper conditions, or
- after severe transportation strain



- Do not leave the packaging material lying around carelessly as children can use it as a dangerous toy.

Control Elements



Front side:

- Output bushing
- Control lamp for operation
- Safety halter for output fuse
- On/Off switch (“1”=on, “0”=off)

Rear side:

- Safety halter for input fuse
- Power plug
- Carrying handle

Operation



Please note the following operation instructions!

- Only one single consumer can be connected to the output bushing of the switched on isolated transformer. Never use e.g. multi-outlet power cords, etc.!

- Turn off the consumer that is supposed to be connected to the output bushing of the isolated transformer.



When a device that is switched on is connected to the output bushing of the switched on isolated transformer, it can result in the generation of sparks.

- The power consumption of the consumer that is supposed to be connected to the isolated transformer must only have a maximum of 1500VA (see “Technical Data”). Otherwise the isolated transformer will be overloaded and damaged, so there is danger to life through electrical shock!

- When the isolated transformer is not needed, disconnect it from the voltage supply source by disconnecting it from the mains socket.

- Never use bare wires or loose connections to connect a consumer to an output bushing of the isolated transformer. Pay attention that all cable/plug connections are secured and safe before turning the isolated transformer on.

After that proceed as follows:

- Switch off the isolated transformer.
- Insert the power plug (6) of the isolated transformer into the correct mains socket (230V~/50Hz) of the official supply grid. The red control lamp (2) will light up.
- Switch off the consumer.
- Connect the consumer to the output bushing (1) of the isolated transformer.
- Switch on the isolated transformer using its on/off switch (4).
- Switch the consumer on.

Maintenance and Cleaning

The product is maintenance-free for you; never open or dismantle it!

Switch the isolated transformer off before cleaning it and disconnect it from the mains voltage by unplugging it! Disconnect a potential connected consumer from the output bushing of the isolated transformer.

Only clean the isolated transformer with a dry, clean and soft cloth. Dust can very simply be removed with a soft, clean brush and a vacuum cleaner.

Replacing a Fuse

If the control lamp on the isolated transformer is no longer illuminated, or a consumer that is connected to the isolated transformer does not function, check both fuses of the isolated transformer.

Please do the following:

- Switch off the isolated transformer and disconnect it from the mains voltage, unplug the power plug (6) from the mains socket!
- Disconnect a potentially connected consumer from the output bushing of the isolated transformer.
- Turn the two fuse holders (3 & 5), one after the other, with a screwdriver, under slight pressure, a quarter turn anti-clockwise and pull out the fuse halter.
- Check the fuses. Replace a defective fuse with a new fuse of the same type (5 x 20 mm) and with the same parameter (T8,0A/250V).



Never bypass the fuse! Danger to life through electric shock, apart from that danger of fire through overloading!

- Reinsert the safety halter and secure it through applying slight pressure with the screwdriver in a clockwise direction until it is in place.

Disposal



In concern for our environment and to recycle the used resources as much as possible, the user is asked to take the used and/or defective device to the public collection point for the disposal of electrical appliance waste.

The sign of the rubbish bin with the black bar through it means that this product has to be taken to a collection point for electronic waste to ensure the best possible recycling of resources.

Technical Data

Input voltage:230V~/50Hz

Output voltage:.....230V~/50Hz

Output power:max. 1500VA

Fuses:T8,0A/230V (5 x 20mm)

Dimensions (B x H x D):305 x 135x 215mm

Weight:ca. 11kg

Operating temperature:0°C - 40°C (maximum relative humidity of 80%, not condensing)

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