UNIPOWER
200.12 DC

EN

IMPORTANT

Please imperatively respect the polarities when connecting your inverter with your battery. A polarity inversion may damage irreversibly your inverter, these damages are not covered by the warranty.

Dear customers, thank you very much for purchasing one of our Uniteck products. Please read carefully and thoroughly all the instructions before using the product.

DESCRIPTION

Unipower 200.12 DC is a 24V DC / 12 V DC current inverter. It transforms the 24V continuous current of your battery in 12V DC stabilized current. It is adapted to supply in 12V most of electric and electronic devices or lighting systems.

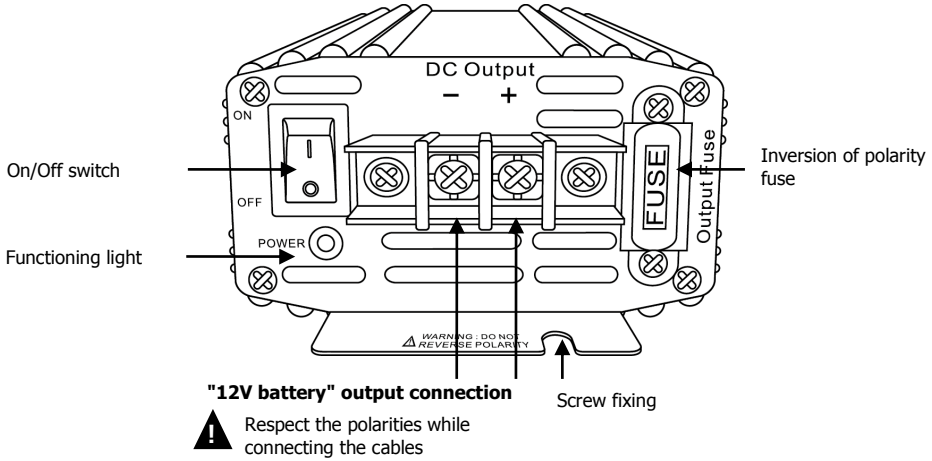
Its maximum continuous power tolerated is 200 watts.

Unipower is cooled down if needed by a fan according to the charge and to its functioning temperature.

INSTALLATION - FIXING

- Unipower was conceived for an indoor use. .
- Use the Unipower in a well-ventilated room, away from the rain, humidity, dust and condensation.
- While using, the inverter may get hot, keep it away from all inflammable.
- To assure a good air circulation necessary to the inverter cooling, make sure there is a 15cm (6 inches) free space around the product.

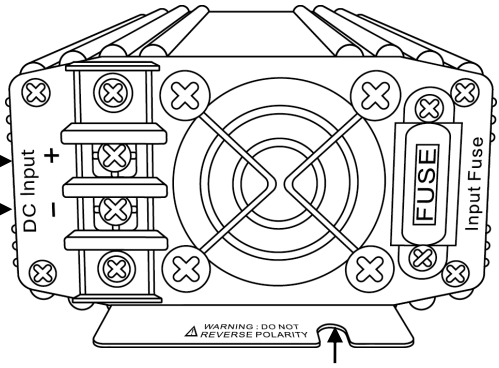
Front face



Back face

"24V battery" input connection.

Respect the polarities while connecting the cables



Protection fuse

Connection terminals

Fixing screws

INSTALLATION - CONNECTIONS

Before any connection, check that the inverter is OFF.

- Connect your 24V battery with the « DC INPUT » back plugs of your inverter, respecting the polarities (cables not provided) :

  Caution : Firmly tighten the tongs/the terminals, otherwise there are risks of : non supply, abnormal overheating of the cable, and damages of the supply of the inverter or fire.

- Connect your 12V battery with the « DC OUTPUT » front terminals of your inverter respecting the polarities (cables not provided) :

  - connect the black cable to the negative born of the battery (-),
  - connect the red tong to the positive born of the battery (+).

  Caution : Firmly tighten the tongs/the terminals, otherwise there are risks of : non supply, abnormal overheating of the cable, and damages of the supply of the inverter or fire.

- Put the Unipower ON. The LED lights as soon as the device is on.

- After using the inverter :

  - put the switch on OFF

  Caution : The metallic parts may be hot. Avoid to grasp it with the hands or to put it next to inflammable products.

INTEGRATED PROTECTIONS

- The Unipower are equipped with thermal protection and electrical protection against overloads as well as a low voltage, overvoltage protection and output short-circuit protection.

  The inverter lights off :

  - when the inner temperature of the inverter is too high
  - when the consumption of the connected devices is over the nominal power of the inverter
  - when the battery voltage is to low or too high.
  - when there is an output short-circuit.

TROUBLESHOOTING

Troubleshooting	Causes	Remedies
Unipower does not deliver current anymore	Overconsumption	Check that the power of the connected device is compatible with the power of the inverter or if possible reduce the consumption of the connected devices.
	Recharge your battery or replace it, if it is defective.	Discharged battery
	Battery overvoltage	Check that the battery voltage is compatible with the inverter. Replace the battery if it is defective.
	Thermal protection : the inner temperature of the inverter is above 45°C	Stop the consumer. Let the inverter cool down and improve the ventilation.
	Bad connection	Control the inverter/battery connection.
	The fuse on front or back face is melted.	Replace the fuse by another fuse of the same size.
	Output short-circuit	Control the connections of your devices to supply.

WARNING AND PIECES OF ADVICE

- Do not expose the product to a temperature higher than 60°C.
- Please follow the safety instructions of the manufacturer of the battery. In case of doubt, consult the reseller or the installer.
- The batteries may produce inflammable Gas. Avoid all flames or sparks.
- While manipulating the battery, there is a risk of acid runoff, protect yourself.
- Never put in short circuit the + and the – of the battery or the cables. Risk of explosion or fire.
- Maintenance: check the cables and all the connections at least once a year.
- Maintenance: Use a dry rag to clean the inverter. Never clean with water.
- All the tasks must be realized in conformity with the applicable rules of the country concerning electricity.
- This device is not provided for being used be people (including children) whose physical, sensory or mental capacities are reduced or people deprived of experience or knowledge except if they have enjoyed, by a person responsible of their safety, their surveillance, preliminary instructions concerning the device use.

PICTOGRAMS

CE — Device in conformity with European directives

Caution ! Read the user manual before use

IP10 — Only protected against a solid objet over 50 mm

Product is a target of a selective collection. Do not throw it away in a domestic dustbin.

TECHNICAL SPECIFICATIONS

	Unipower 200-12 DC
SYSTEM	
Nominal continous power	24 V DC / 12 V DC
Peak power	200W
Technology	300W
Self consumption	Inverter
Maximum efficiency	0,03 A
Thermal protection	90%
Short circuit protection	Yes
Polarity reversal protection	By interruption
Operating temperature	Fuse
Humidity rate (non condensing)	-15°C to 45°C
Storage temperature	90% max
Protection Rating	-30°C to 70°C
Nominal continous power	IP10
INPUT	
Input voltage range	18V DC -30V DC
Overvoltage protection	Yes
Low battery protection	Yes
OUTPUT	
Output voltage	12,5 V +/-0,5V
Output connection	Enchufe
Overconsumption protection	Yes
MECHANICAL CHARASTERISTICS	
Weight without accessories	178 x 89 x 50
Weight with accessories	0,6 kg
Weight without accessories	0,6kg

DECLARATION OF CONFORMITY

The UNITECK company testifies that the 24V/12V inverter described in this manual :
UNIPOWER 200.12 DC is manufactured in conformity with European requirements:

CEM (emission) :	EN 55022-class B
CEM (reception)	EN 55024, EN 61000-4-2, EN 61000-4-3, EN 61000-48
LVD (low tension)	EN 60950-1

Date of CE marking : January 2014.

01/01/2014
Société Uniteck
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Yoann Fourmond
Chief Executive Officer

WARRANTY

The warranty covers all defects or manufacturing flaws for 1 year from the day of purchase (pieces and workforce).

The warranty does not cover :
- the normal wear of the pieces (for ex. : cables, etc.).
- the input voltage errors, polarity inversions, incidents due to a bad use, fall, disassembly, or any other damage due to the transport.

In case of failure, return the device to your supplier, and join :
- a dated proof of purchase (cashier's receipt, bill…).
- an explanatory note of the failure.

Caution : Our after-sales service does not accept postage due returns.

After the warranty, our after-sales service ensures repairs after acceptance of a quotation.
After-sales service contact :
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34500 Béziers -France
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Fax: +33 (0)4 88 04 72 20