

Trust

1000 UPS ENERGY PROTECTOR

UK

User's manual



V1.0

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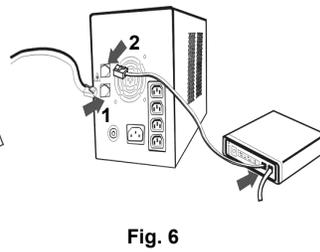
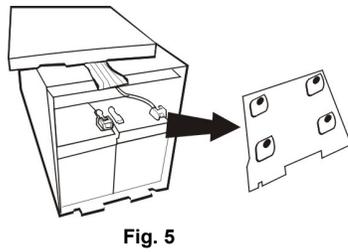
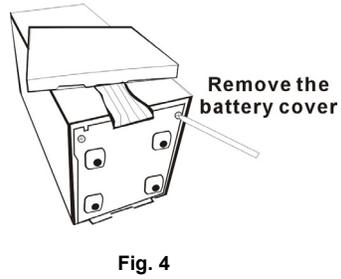
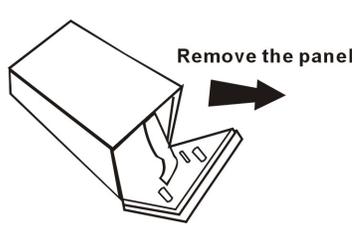
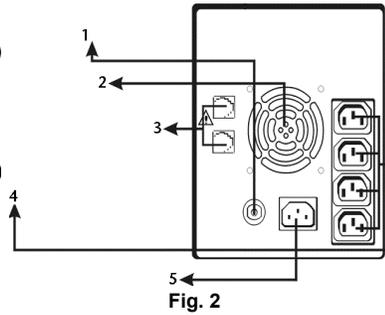
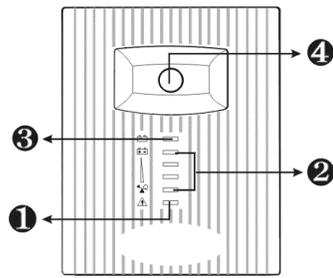
1000 UPS ENERGY PROTECTOR

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For the first time use, see QIG (Quick Installation Guide).

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1 Introduction

This instruction manual is for users of the TRUST UPS ENERGY PROTECTORS, models 1000. These energy protectors can be used as a back-up power supply for your PC during power cuts. These energy protectors also provide protection against extreme power surges and filter the mains supply, so that your devices receive a constant voltage.

2 Safety

Carefully read the following instructions before use.

- Disconnect the power plug from the mains supply before cleaning the device. Do not use a liquid cleaner or a spray to clean the device. Clean the device with a dry cloth.
- Do not use aggressive substances, such as white spirit, to clean the device. These may harm the material.
- Do not submerge the device in liquid. This may be dangerous and will damage the device.
- Keep this device away from liquids, such as water.
- Do not use this device in a damp environment, such as a bathroom, damp basement or swimming pool.
- Do not use this device in combination with non-computer related items, such as medical equipment, microwave ovens, vacuum cleaners, etc.
- Make sure the UPS is placed on a firm surface, such as your desk or the floor.
- ALWAYS use the UPS with an earthed plug socket.
- Do not connect a multiple socket to the UPS input.
- Make sure nothing is placed on the cable. Do not use this device in an area where the cable can become worn or damaged as a result of people walking over it.
- Never cover the UPS to avoid overheating. Keep the UPS out of the reach of heat sources, such as the sun, heaters, etc.
- Never insert objects into the slits on the front of the UPS, because you may touch live components. This may cause a fire or give you an electric shock.
- The outputs may have a high voltage, even when the device is turned off.
- Keep the UPS at least 20 cm from your monitor.
- Do not repair this device yourself. If you open this device, you may touch live components.
- Under the following circumstances, remove the plug from the power socket and have the device repaired by qualified personnel:
 - The cable or plug is damaged.
 - The device has been dropped or the casing has been damaged.
 - The device is clearly not operating correctly.

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BATTERY:

- Do not expose the battery to a naked flame. This may cause the battery to explode.
- Never drill holes into the battery.
- Keep the battery out of the reach of small children.
- The battery may only be replaced by qualified personnel.
- The battery must not be opened or damaged. If the battery is opened or damaged, electrolyte may be released, which is harmful to skin, eyes and the environment.
- When the battery is empty, ask your local authority where you can dispose of it.

FAN:

- The fan in UPS may get dusty after using a while, please remove the AC input power and turn off the UPS then use a soft brush gently clean off the dust for better ventilation of the UPS and longer product life.
- Do not insert any object into the fan while it's spinning which may lead to the broken of the fan, or damage of the UPS, or damage of the object being inserted.

3 Approval



This device meets the essential requirements and other relevant conditions of the applicable European directives. The Declaration of Conformity (DoC) is available at www.trust.com/13988/ce.

4 Installation

Note: Turn your computer off before connecting the device.

See QIG.

See Figure 1:

1	Fault LED
2	AC mode: Load level LEDs Battery mode: Battery capacity LEDs
3	AC mode: steady green Battery mode: flashing green
4	On/Off switch

See Figure 2:

1	Circuit breaker.
2	Cooling fan.
3	Modem/Phone line surge protection.
4	AC output.
5	AC input.

Table 1: Connections

- Note:** *The battery is being charged when the plug is inserted into the plug socket. Charge the battery for 8 hours before using it with, for example, a computer without a mains supply.*
- Note:** *It's normal that the cooling fan turned on when you plug in the power cord without powering on the UPS.*
- Note:** *When the AC power is plugged at UPS, it's charging. It is not necessary to power on the UPS in order to charge the battery in UPS.*

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4.1 Optional modem/phone line protection

1. Connect a RJ-11 cable from telephone socket to the telephone/modem connection IN on the UPS (1, figure 6).
2. Connect a RJ-11 cable from your telephone/modem to the telephone/modem OUT connection on the UPS (2, figure 6).

Note: *This UPS doesn't provide you dial-up function, the RJ-11 jacks are provided for phone line surge protection only. RJ-11 cable- please buy at electronics store.*

5 Use

You can test the UPS after 8 hours by unplugging the power cable. The green LED will flash and a beep will be heard.

5.1 Functions

Indicator	Sound	Output	Charging	Description	What to do?
-	-	No	Yes	UPS is turned off	Turn the UPS on using the ON/OFF button (A, figure 1).
-	A beep every 2 seconds	230 V	Yes	Battery abnormal.	Replace battery.
Green (Fig. 1, 3) - ON	-	230 V	Yes	Normal use (AC mode)	No action.
Green (Fig. 1, 3) - flashing	A beep every 10 seconds	230 V	No	No input voltage (Battery mode)	No input voltage. Is now using the battery voltage. Save your data and turn off your computer.
Green (Fig. 1, 2)	-	230V	Yes	These LEDs indicating load level (AC mode)	No action.
Green (Fig. 1, 2)	-	230V	No	These LEDs indicating battery capacity (Battery mode)	Charge battery if there's no LED on.

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Indicator	Sound	Output	Charging	Description	What to do?
Green (Fig. 1, 3) - flashing quickly	Beep every second	230 V	No	Battery empty. UPS will turn off soon	Save your data immediately and turn off your computer.
Red (Fig. 1, 1) - ON	Continuous beep	No	No	Too high load connected	Reduce the load. Turn off the UPS and wait 2 minutes before turning it back on.
				Low battery voltage.	Do not connect a load. Charge the battery for 8 hours or replace the battery.
				Battery or UPS faulty (internal error).	Contact your dealer.

Note: *If there is a power cut when using a PC, save your data immediately and turn off your PC to prevent losing any data.*

Note: *Trust is not directly or indirectly responsible for any loss of data and consequential damage.*

5.2 Reset circuit breaker

Overloading may cause the circuit breaker (1, figure 2) in the UPS to pop up. This UPS uses NFB (No Fuse Breaker), therefore you do not need to replace fuse. When the breaker pops up, remove the unnecessary load on UPS first and then press it back to reset the protection.

5.3 Maintenance of the battery

Below are two tips for increasing the life span of the battery.

- Recharge the battery as quickly as possible when it becomes empty.
- If the UPS is not connected to the mains supply for a long period of time, recharge the UPS at least every three months.

5.4 Replace the battery

1. Disconnect all the power sources on the UPS.
2. Removing the front panel. (Figure 3)
3. Removing the metal battery cover. (Figure 4)
4. Carefully extract the two wires connected to the Blazer. (Figure 5).
5. Replace the batteries with the **same kind/type**.
6. Connect the two wires back to the Blazer.
7. Assembling back the metal battery cover.
8. Assembling back the front panel.

9. Ask your local authority where to dispose the replaced batteries at an appropriate recycling facility.

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5.5 Technical specifications

Model		1000
Output capacity		1000 VA/600 W
Input		115 VAC/230 VAC
	Voltage range	170 ~ 274 VAC
	Frequency	47-63 Hz
Output		115 VAC/230 VAC
	Frequency	50 o 60 Hz
	Freq. regulation	+/- 1 Hz
Surge current protection (J)		Max. 150
Max. surge current (Amp)		6,500 A
Transfer time (typical)		Less than 3 ms
Battery	Battery type & number	12 V/7 AH x2 battery
	Backup time (min.)	38 ~ 70
	Charge time	8 hours to 90% after full discharge
Surroundings	Working surroundings	0 – 40° C, 0-90% relative humidity
	Sound level	Less than 40 dB
Weight		13.8 kg

6 Troubleshooting

Method

1. Read the solutions given below.
2. Check for up-to-date FAQs, drivers and instruction manuals on the Internet (www.trust.com/13988).



Problem	Possible cause	Solution
The computer cannot be turned on.	The UPS has not been turned on.	Turn the UPS on by pressing the ON/OFF button on the UPS for at least 3 seconds.
	The battery voltage is too low.	Recharge the UPS.
	The mains cable has not been connected correctly or is loose.	Connect the power cable correctly.

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Problem	Possible cause	Solution
The UPS remains in the battery mode (green LED (Fig. 1, 3) flashes every 5 seconds and a beep is heard).	The power cable is loose.	Connect the power cable correctly.
	The circuit breaker pops up.	Reset the circuit breaker (see chapter 5.2).
	The mains supply is too high, too low or there is a power failure.	This is normal. If this lasts for a long period of time, contact your electricity supplier.
There is a continuous beeping noise.	The UPS is placed under a heavy load.	Disconnect the less important devices.
	The battery voltage is too low.	Recharge the UPS.
The backup time is too short.	The battery has not been fully charged.	Recharge the UPS.
	The load is too great.	Reduce the connected load.

If you still have problems after trying these solutions, please contact one of the Trust Customer Care Centers. You can find more information at the back of this instruction manual. Please have the following information available.

- The article number: 13988.
- A good description of what does not work.
- A good description of when the problem occurs.

7 Warranty conditions

- Our products have a two-year manufacturer's warranty which is effective from the date of purchase.
- If there is a fault, return the product to your dealer and include an explanation of the fault, the proof of purchase and all the accessories.
- During the warranty period, you will receive a similar model, if one is available. If no similar product is available, your product will be repaired.
- Please contact our help desk for missing components, such as the instruction manual, software or other components.
- The warranty becomes invalid if the product is opened, if there is mechanical damage, if the product has been misused, if alterations have been made to the product, if the product has been repaired by a third party, in the case of negligence or if the product has been used for a purpose other than that originally intended.
- Excluded from the warranty:
 - Damage caused by accidents or disasters, such as fire, flood, earthquakes, war, vandalism or theft.
 - Incompatibility with other hardware/software which is not stated in the minimum system requirements.
 - Accessories, such as batteries, fuses (if applicable).
- Under no circumstances will the manufacturer be held responsible for any incidental or consequential damage, including the loss of income or other commercial losses resulting from the use of this product.

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