INFORMATION ON SAFETY

- Risk of shock - UPS device does not have a structure, which allows the user to perform repairs or replacements on his own. Never attempt to open the casing.
- UPS is powered with 12V, sealed, maintenance-free lead battery made in AGM technology.
- Connecting the equipment to other than bipolar, three-wire, grounded power socket causes a risk of electric shock.
- In case of failure the device should be turned off by pressing the built-in button, and then disconnect it from the mains power supply and disconnect all devices plugged into UPS.
- The device is not protected against moisture, avoid using it in damp rooms, do not put near the containers with liquid and moisture sources.
- The machine is designed to operate in room conditions.
- Do not plug the power socket of the device to its own sockets. Do not plug the power socket to the output socket of the device.
- UPS has internal protection and stabilizers and limited power, and therefore, do not connect to it additional anti-surge protectors, extension cords or power distributors
- UPS is not suitable for powering devices outside the category of IT equipment. It can not be used to power medical devices or household appliances (electric kettles, vacuum cleaners, microwave ovens).
- In order to avoid overheating do not cover the device, block access of air, expose to the rays of sunlight, mount near heat sources such as heaters or space heaters.
- Before cleaning disconnect the device from the power source. Do not use liquid detergents for cleaning the device.
- Do not throw the battery into the fire as it can explode.
- Do not disassemble the built-in battery. The electrolyte is dangerous to eyes and skin.
- In order to avoid short circuit or electric shock, observe the following safety rules:
  1. When handling the battery, remove from your hand any metal parts (rings, watches);
  2. Use only tools with insulated handles.
  3. Use insulating gloves;
  4. Do not put metal tools on the casing of battery near the connectors;
  5. Before disconnecting the battery, turn off the ups device and disconnect it from power sources.
- Repair and replacement of the battery should be performed only by trained technicians at authorized service points.
- Replacement must be made for the battery with the same type and parameters.
- During replacement the ambient temperature cannot exceed 40 degrees Celsius.
- During installation, make sure that the leakage current does not exceed 3.5mA.

This device is marked with the symbol of crossed-out container for waste. Such marking indicates that the equipment after its period of use cannot be placed together with other waste from households.

ATTENTION! this equipment must not be disposed of in municipal waste! The product should be disposed of by selective collection in points designed for it. The appropriate procedure with the used electrical and electronic waste equipment helps to avoid harmful to human health and environment the consequences resulting from the presence of dangerous elements and improper storage and processing of such equipment.

DESCRIPTION OF PRODUCT

Line interactive UPS of Micropower series is designed specifically to operate with computers of PC class. The low weight and compact dimensions make it an ideal solution in the office or at home, where work space is very limited. UPS uses Line-Interactive and AVR technologies protecting your devices and making the operation possible in a wide range of input voltages. The key features of UPS Micropower devices:

- advanced controllers ensure high switching speed and safety ofoperation;
- AVR technology immunizes your equipment to the fluctuations in the mains voltage up to 15%;
- Green Power function for saving energy;
- cold-start function;
- automatic switching when power is restored;
- compact size, light weight;
- overload protection.

BASIC OPERATION OF UPS GREEN CELL DEVICE

1. Device

After taking out of the package, make sure there is no visible damage on the casing during shipping. If you notice any damage, do not connect the device and contact your dealer.

2. Loading

The device is sent from the factory with fully charged batteries, but due to the phenomenon of self-discharge the battery may require recharging after it was received. Turn on the device and connect it to the mains. Leave UPS for about 6 hours with no load to charge it completely.

3. Position

The device must be used under controlled conditions, which ensure adequate air flow. You must absolutely avoid:

- significant pollution (dust, sand, etc.).
- moisture,
- sources of corrosion,
- high temperature.
- At the same time you should remember that the UPS is away from computer monitors to avoid interference.

4. Connection

Connect Micropower power supply to the bipolar socket of electrical mains with the grounding pin. You can then connect the computer and other devices to the output sockets. NOTE! Do not connect devices using extension leads or distributors.

5. Start up

To start up the device, press the POWER button in front of the casing.
To turn off the power supply, press the button again.

6. Cold start

To force the operation on the battery power supply press the POWER button.

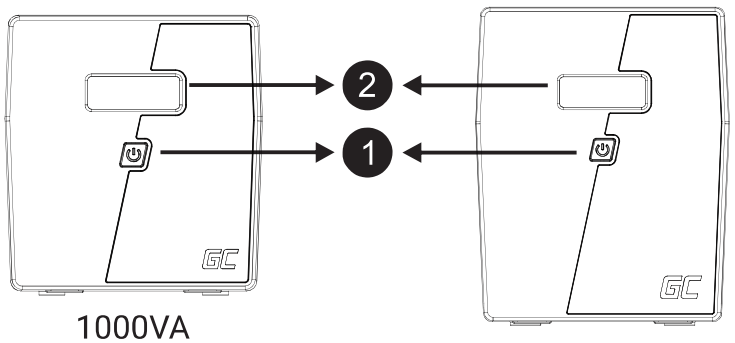
TROUBLESHOOTING

Symptoms	Possible causes	Suggested solution
No highlight of LED Diodes	Low Battery	Charge the battery for at least 8 hours
	Faulty battery	Replace the battery with a new one of the same type
	POWER button is not pressed	Press the POWER button again
The device emits a constant beeping alarm during mains power supply. Very short time of hold-up during the operation of battery.	The device is overloaded	Check the load of the device and compare it with technical specification. Disconnet some devices.
	The battery is discharged	Charge the battery for at least 8 hours.
	The battery is damaged	Replace the battery for a new one of the same type.
Despite the availability of power supply the device switches to battery operation.	Power plug is disconnected.	Check and correct the connection of the power plug.

DESCRIPTION OF INDICATORS AND COUPLINGS

Front panel:

1. switch
2. LCD display

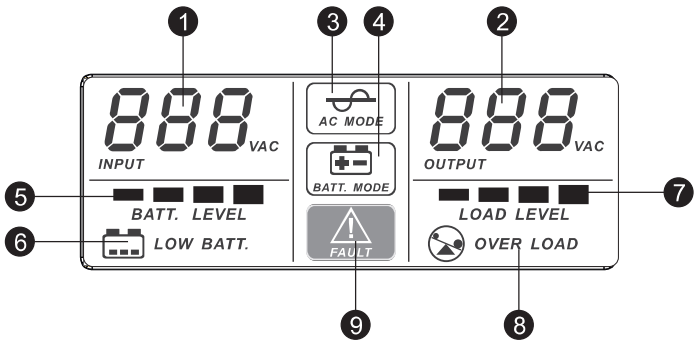


1000VA

2000VA

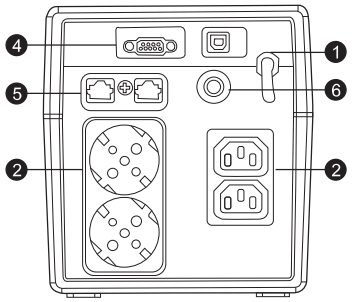
LCD display:

1. Input voltage
2. Output voltage
3. Mains power supply (when the UPS operates in AVR mode the indicator flashes) Battery power supply
4. Battery level
5. Low battery alert
6. Load level
7. Overload alert (symbol flashes)
8. Symbol of power failure (shines when there is a short circuit, overload,
9. Overload

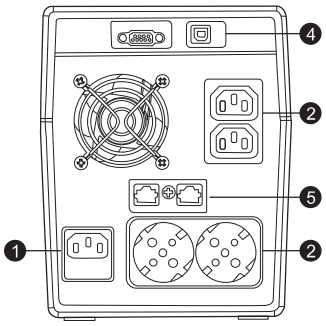


Rear panel

1. Input socket of mains power supply
2. Output socket 230V
3. USB Irj11 sockets (optional)
4. USB and RS-232 sockets (optional)
5. RJ 45 (optional)
6. RESET button interrupting the connection



1000VA



2000VA

SPECIFICATION

Model		PureWave	
Capacity	VA	1000VA	2000VA
Input	Voltage	162-290V / 81-145V	
	Ffrequency	50Hz / 60Hz	
Output	Voltage regulation (operating with a battery)	+/-10%	
	Frequency	50Hz / 60Hz	
	Battery frequency control	+/-1Hz	
	Output waveform	pure sin wave	
Battery	Type of battery	12V/7.0AH ×2	12V/9.0AH ×2
	Charging time	6-8 hours to 90% after full discharge	
Transfer time	Standard	2-6ms	
Sound alert	Battery work mode	sound alert every 10 seconds	
	Low battery	sound alert every 1 second	
	Overload	sound alert every 0,5 second	
	Error	continous sound alert	
Protection	Full protection	against overload, overcharging and deep discharge	
Dimensions	Dimensions (mm)	146 × 160 × 350	146 × 205 × 397
Weight	Net weight (kg)	8	11
Work enviro-ment	Temperature	0ºC-40ºC	
	Noise level	below 40dB	