

Specification.

Model		1000GE	1400GE	2000GE	3000GE
Capacity		1000VA	1400VA	2000VA	3000VA
Input	Voltage	230V			
	Voltage range	175 – 270 V (AVR)			
	Frequency	50Hz ± 5Hz			
Output	Voltage	230V			
	Frequency	50Hz ± 5Hz			
	Voltage regulation (Batt. Mode)	± 3%			
	Frequency regulation (Batt. Mode)	± 0,3%			
	Kształt Waveform	Modified sinewave			
Battery	Type	Sealed, lead-acid battery, maintenance free			
		2 x 12V 7Ah	3 x 12V 7Ah	4 x 12V 7Ah	4 x 12V 9Ah
	Backup time	5 – 15 min.			
	Recharge time	8 hours to 90 % after complete discharge			
Transfer time		< 2 ms			
Indicator		AC mode : Green lighting Backup mode : Orange flashing			
Alarm		Backup mode, Low battery			
Interface		Dry Contact DB9			
Operating environment		0 – 40 °C, 0 – 95% relative humidity (non-condensing)			

orvaldi®

Power Protection

USER MANUAL

ORVALDI

1000GE/1400GE/2000GE/3000GE

ORVALDI Power Protection Sp. z o.o.

Centre Logistics and Service

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1. INTRODUCTION

1.1 Safety Instruction

Caution !

- The UPS contains voltages which are potentially hazardous. All repairs should be performed by qualified service personnel.
- The UPS has its own internal energy source (battery). The output receptacles may be live even when the UPS is not connected to an AC supply.

For safe and continuous operation of the UPS depend partially on the care taken by user. Please observe the following precautions.

- Do not disassemble the UPS.
- Do not attempt to power the UPS from any receptacle except a 2-pole 3-wire grounding receptacle.
- Do not place the UPS near water or in environment of excessive humidity.
- Do not allow liquid or any foreign object to get inside the UPS.
- Do not plug appliances, such as hair dryers, into the UPS receptacles.
- Do not place the UPS under direct sunshine or close to heat -emitting source.
- The power socket should be installed near the equipment and be easily accessible. To isolate from AC input, disconnect the plug in the power cord.
- The printer may best be connected directly to wall receptacle instead of UPS. (laser printer can't be connected to the UPS.)
- The battery will discharge naturally. If it is charged periodically, its life time will be prolonged. It will damage if long-term no use, which won't be covered in our warranty.

1.2 System Description

The UPS equipped with Boost-up and Buck-down features Accepts wide range input windows without using batteries. It is your best choice for LAN and PC. Built-in RJ11 jacks protect your modem/fax line thoroughly.

To enable user to start on the UPS without Utility Power, It is also equipped with "cold start function".

2. INSTALLATION AND OPERATION

2.1. Unpacking and Inspection

Examine the packing carton for damage. Notify the carrier immediately if any damage occurs. Retain the packing for future use.

2.2. Installation

- Connect the power cord to a verified grounded 3-wire receptacle.
- Charge the batteries for ten (10) hours before use. The UPS will recharge the batteries automatically whenever its power cord is plugged into a wall outlet. You may use the UPS immediately without recharging, but the backup time may be less than the rating.
- Connect the power cord of your computer equipment to the Backup Outlets of the UPS. Switch on the computer equipment.

Caution : Do not plug laser printers into the Backup Outlets because they may draw too much power.

- Switch on the UPS by pressing the Main Switch. The "Mains" LED will light on. The UPS is now considered to be working properly. If overload condition occurs, the alarm will beep continuously, it means you have connected too many devices. Please proceed to unplug the least critical equipment from Backup Outlets.
- To test backup function, you may disconnect the power cord of the UPS. The "Mains" LED of the UPS will Light intermittently and the alarm will beep every 4 seconds.

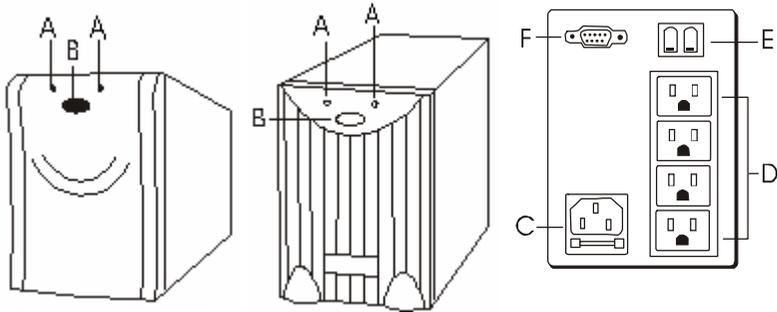
2.3. Storage Instruction

For extended storage in moderate climates, the batteries should be charged for 12 hours every 3 months by plugging the power cord into the wall receptacle. Repeat it every 2 months in high temperature locations.

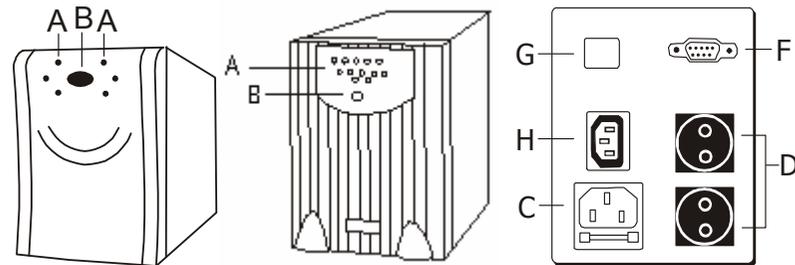
2.4. Panel's Explanation

(A) LED; (B) Main Switch; (C) AC Inlet w/Fuse; (D) Backup Outlet
 (E) RJ11 Jack; (F) DB9 ; (G) Reset Switch ; (H) Surge Outlet

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3 Troubleshooting

The Troubleshooting chart covers most of the difficulties that you may encounter under normal working condition. Should the UPS fails to operate properly, please proceed the followings before calling for service.

- Is the UPS plugged into an incorrect wall receptacle?
- If AC input voltage out of windows?

When calling for service, please offer the following information

- Model No. and Serial No.
- Date of problem occur o Full description of the problem occur,
- Including condition happened, environment installed, devices connected to the UPS, etc..

Problem	Possible Cause	Troubleshooting
No light, No alarm	<ol style="list-style-type: none"> 1 AC fuse blown 2 Power cord in loose 3 Main Switch is not "on" 	<ol style="list-style-type: none"> 1. Replace AC fuse with same rating 2. Connect AC power cord to wall receptacle properly 3. Turn on main Switch
Fault: LED lights up and alarm beeps continuously	UPS is out of order	Call for service
Less Backup time	<ol style="list-style-type: none"> 1. Battery is not fully charged 2. Battery is out of order 3. Charger is defective 	Please recharge the battery for at least 6 hours. Should problem remain, call for