WARRANTY CARD

DATE OF PURCHASE	
SHIPPING ADDRESS	
SIGNATURE / STAMP	
DAMAGE DESCRIPTION	
SERVICE COMMENTS	

FILL IN IF NEEDEED
(*) Cross incorrect
I agree to pay the cost of inverter repair due to:
* expiration of the warranty period / * warranty void

Before proceeding with the repair, service will inform by phone about the exact costs of the repair.
Please attach a copy of the purchase document (receipt or invoice) to the complaint.
The full regulations of service repairs can be found on our website **www.voltpolska.pl**

Proper disposal of the product
(waste electrical and electronic equipment)

The marking placed on the product or in the texts related to it indicates that it should not be disposed of with other household waste at the end of its useful life. To avoid harmful effects to the environment and human health from uncontrolled disposal, please separate this product from other types of waste and recycle responsibly to promote the reuse of material resources as a continuing practice. For information on where and how to recycle this product in an environmentally safe manner, residential users should contact the retailer where they purchased the product, or their local government authority. Business users should contact their supplier and check the terms and conditions of their purchase contract. The product should not be disposed of with other commercial waste.

serwis@voltpolska.pl | pomoc@voltpolska.pl

PRODUCT MANUAL

wersja 1.2022.12.23

PURE SINE WAVE INVERTER/UPS

sinusPRO W

VOLT POLSKA

VOLT POLSKA Sp. z o.o.
ul. Swiemirowska 3
81-877 Sopot
www.voltpolska.pl

serwis@voltpolska.pl | pomoc@voltpolska.pl

PREFACE

Welcome to use the inverter sinusPRO W. Please read carefully this manual before operation.

Product features:

- With inverter, UPS, AVR and charger function.
- Toroidal transformer design, high efficiency low static loss, much more energy-saving than old square transformer type design.
- 32-bit high speed CPU controlled, swift response speed, more accurate detection.
- LED colorful humanistic and friendly operation interface, displays clearly device's working status (input&output voltage, loading status, battery status.
- Pure sine wave output, suitable for almost all of appliance.
- High charging current.
- Short switchover time, guarantees the connected appliances uninterruptible usage.
- Vantilation fan intelligent controlled, fan working based on the setting temperature and working status.

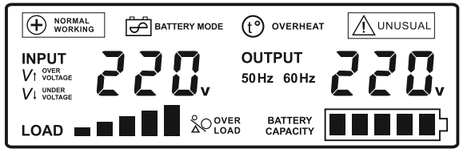
SAFETY PRECAUTIONS

The manual is the integral part of the sinusPRO W series devices. Do not throw it out, store it an easily accessible place and read the content before using device.

- Avoid overloading, don't use the device beyond its maximum power capacity.
- It will be a danger of high voltage in the device even all the switches are turned off, any operation to move or open the device should be performed by authorized professional staff.
- In case of fire, use the dry powder type fire extinguisher, don't use liqiud type fire extinguisher.
- If the device works unusually, please switch off both power sources of battery and city power immediately, any power source exist in such case will cause danger; and please report to the distributor for professional advices.
- **IMPORTANT!** Don't input voltage from poor quality generators that don't produce sinusoidal voltage, because the device will not work.
- **IMPORTANT!** We recommend using dedicated AGM/GEL lead-acid batteries that are suitable for buffer/cyclic work and deep discharge. Connecting to the converter car batteries that are not adapted for such work may result in damage to the converter/battery. Also, do not connect LiFePO4 batteries, due to different charging/discharging characteristics than those offered by the Sinus PRO E, W, S. To work with LiFePO4 batteries, we recommend using the Sinus PRO ULTRA series by VOLT Polska.

DISPLAY, CONTROLL AND WARNING DETAILS

- normal working interface

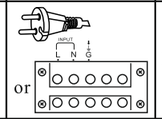
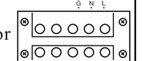


- detail display

NORMAL WORKING /	city power input normal, device through AVR supplies output
BATTERY MODE /	city power input abnormal, battery through inverter supplies AC output
OVERHEAT /	temperature is too high, device cuts off output
UNUSUAL /	battery over voltage,short circuit, high MOSFET' s temperature
V↑ OVER VOLTAGE /	city power input is over voltage
V↓ UNDER VOLTAGE /	city power input is low voltage
OVER LOAD /	loading exceeds device's rated power
LOAD /	loading bar showing the loading situation
BATTERY CAPACITY /	battery bar showing the battery capacity, when in charging, the bar will be flashing
INPUT 220. /	input voltage indication
OUTPUT 220. /	output voltage indication and frequency indication

serwis@voltpolska.pl | pomoc@voltpolska.pl

OPERATIONAL DESCRIPTION

Name	Component drawing	Description
output switch		pushing it for more than 2 seconds, switch on/off the inverter or output
AC input cord or terminal		plug it or connect it to wall socket or city power when charges battery or supplies output through AVR
mains switch	 or 	when connect to city power and city power is normal, turn on this switch, device will work on mains mode, charging the battery; Turn off this switch, device will switchover to battery mode
output socket or terminal	 or 	appliance connect to this socket or terminal for output Note: The Max. power for single socket is 2000W If your appliance' s power is more than 2000W, please connect to terminal
vantilation fan		under battery mode or charging, when the power transistor temperature higher than 45℃, fan will start
battery input pole		red battery input cable for positive pole, black battery input cable for negative pole; be attention to the battery voltage must follow the device marking
ac charger		(mains charger on / off switch in the power supply) the button is used to turn on / off the battery charger built into the power supply

serwis@voltpolska.pl | pomoc@voltpolska.pl

BUZZER WORKING STATUS

Working status

- when city power abnormal swithover to battery mode - beeping one time
- battery working low voltge or output overload - beeping every second
- protection or outuput abnormal - beeping hurrily

Installation

- If you find any damage upon package openning, please contact distribution immediately.
- Don’t install the device up-side-down; not expose to direct sunlight or heat source; away from children, away from water, moisture, oil or grease and any flammable substance.
- For better ventilation, fan outles and device ventilation should have at least 10cm distance from the wall or other adjacent not heat producing equipment.
- Make sure the city power voltage and frequencey matches the device rated.
- The device should be placed in the well grounded condititon to ensure the safety.
- Battery connection: connect the red cable to battery „+” pole and connect the black cable to battery „-” pole, device cannot work under wrong connection.

serwis@voltpolska.pl | pomoc@voltpolska.pl

TECHNICAL PARAMETERS

MODEL		500 W	800 W	1000 W	2000 W	2500 W	5000 W
max power		500VA	800VA	1000VA	2000 VA	2500 VA	5000 VA
max power current		300W	500W	700W	1400W	1800W	3500W
input	voltage	170VDC-270VDC					
	frequency	45 ~ 65 Hz					
output	voltage	230 VAC ± 1% in battery mode; 230 VAC ± 8% in mains mode with AVR					
	frequency	50 Hz ± 0.5 Hz					
	voltage waveform	pure sine wave					
	distortions	< 3%					
button battery mode/mains mode		yes					
protection		overload, temperature, over and under voltage,battery discharge, short circuit, overcharging					
time of switching between battery mode/mains mode		≤ 4ms					
battery voltage		12VDC			24VDC		48VDC
charging current		10A		20A			10A
dimensions (mm)		253x241x102		311x232x140		312x310x167	540x330x130
weight (kg)		4,2	4,7	6,8	9,5	12	22

serwis@voltpolska.pl | pomoc@voltpolska.pl