

## PURE SINE WAVE ELECTRONIC CONVERTERS WITH UPS FUNCTION

# sinusPRO E

### DEVICE CHARACTERISTICS

- Functions of **DC/AC converter**, **UPS** and **automatic batteries charger** contained in one device
- Toroidal transformer used in the converter provides **high efficiency** and **low idle current**. The device is **much more energy-efficient** than older constructions using transformers with E-type core
- Fast 32-bit microprocessor ensures **accurate and failure-free operation**
- Intuitive and simple operation thanks to the **color LED display**, which informs about the current device operating status (input and output voltage, battery status, charging, etc.)
- **The converter generates a pure sinusoidal voltage at the output**, which makes it possible to work with virtually any type of load
- **High battery charging current** (exact values in the table with technical specifications)
- **Possibility of changing the charging current** using a button and switching off the charger
- Fast switching from AC supply to UPS operating mode enables uninterrupted operation of connected devices
- **Intelligent cooling fan control**, depending on the actual temperature of the device and inverter operating status

### TURNING ON UPS

- Open the box and check that all components are included and the device is undamaged. Disconnect power supply cable from the device.
- Connect battery correctly to the device according to the correct polarity (red wire + / black wire -).
- Turn on the device with the ON / OFF button (press and hold the button for 5s until you hear a beep) and connect the plug to the AC socket.
- Set the AC charger switch to the "I" position to start charging the battery and select AC PRIORITY.
- Connect all devices that you want to use with the power supply, make sure they are turned off and after connecting, turn them on one by one.
- In models with build-in work priority switch, after connecting the regulator, select the SOLAR PRIORITY option.

### TURNING OFF UPS

- One by one turn off devices connected to the converter.
- Set the AC charger switch to the "0" position to stop the battery charging process.
- Press and hold ON / OFF button for 3 seconds to disconnect converter output.
- Disconnect power supply cable.
- Disconnect the battery from the converter.

### CAUTIONS

- Be careful while connecting the battery, voltage generated with reverted polarity can damage the converter.

- Do not overload the device above its nominal power. When connecting refrigerators, freezers and other induction appliances / consuming more power on start-up, remember not to exceed 30% of the total power rating of the UPS.
- Do not connect the device outdoors, avoid contact of the UPS with water.
- Remember to place the power supply in the correct place, with access to fresh air and a minimum distance of 30 cm from each side of the housing.
- If you notice an incorrect operation / damage to the converter, contact the manufacturer's service.
- Verify if the device is working correctly after connecting all connected appliances, turning off the AC Voltage using the fuse breaker, do not disconnect plug from the AC socket, because this way you would disconnect the fixed zero taken from the mains.
- The battery charger built into the sinusPRO E series converters operates on the principle of buffer charging. **We recommend using batteries adapted for buffer charging and deep discharge, for example: dedicated AGM VPRO, gel, acid closed DEEP CYCLE etc.** Connection car battery to the converter (acid starter) that is not adapted to such operation may result in incorrect converter operation and / or damage to the battery.
- The AC output of the converter is used for direct supply of connected devices in the so-called island system. It is forbidden to connect the AC output to the existing electrical installation (even through a residual-current protection), and in particular to phase, neutral N and differential-current wires. **Such connection may result in reverse voltage applied to the converter output. Damage caused by such connection results in the loss of the warranty!!!**
- Other important information related to for example: batteries selection, required power calculation or battery pack capacity calculation can be found on our website [www.voltpolska.pl](http://www.voltpolska.pl)

Model	500E	800E	1000E	1500E	3000E
Total power	500VA	800VA	1000VA	1500VA	300VA
Nominal power	300W	500W	700W	1050W	2100W
Idle current (battery operation)	<1A	<1A	<1A	<1A	<1A
Input	Voltage	140 ~ 275VAC			
	Frequency	45 ~ 65Hz			
	AVR stabilizer	In AC supply mode AVR stabilizer can increase or decrease AC input voltage to a correct level. If AC input voltage is outside of the range 203V AC ± 1% - 239V AC ± 1%, then output voltage will be ~213V AC ± 1% and will increase accordingly to the value of input voltage.			
Output	Voltage	230V AC ± 1% in battery mode; 230V AC ± 8% in AC supply mode with AVR			
	Frequency	50Hz ± 0.5Hz			
	Voltage waveform	Pure sinusoidal wave			
	Distortions	<3%			
Priority selection button (mains / battery)	YES (Only in E PLUS version)	NO	YES	YES	NO
Charging current selection (5/10A)	YES (E PLUS: 2/5/10A)	YES	YES	NO	NO
Protection	Overload, temperature, over- and under-voltage, against battery discharging, short circuit, against overcharging				
Switching time (mains/battery)	≤4ms				
Battery voltage	12V DC			24V DC	
Maximum charging current [A]	10				
Dimensions [width x depth x height] [mm]	230 x 145 x 180		350 x 150 x 190	355 x 220 x 250	355 x 220 x 250
Weight	5.1kg	6.5kg	7.1kg	10.7kg	16.4kg

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