

TECHNOLOGY: **TRUE ON LINE Double Conversion**

CLASSIFICATION: **VFI-SS-111** (EN 62040-3)

POWER RANGE: **1 – 3 kVA**

No. OF PHASES: **1:1**



■ APPLICATIONS

- Servers
- Working stations
- Lighting
- Laboratory equipment
- Security systems
- Automation and control systems

■ SPECIFICATION

Technology True On-Line Double Conversion Technology provides perfect output voltage parameters, regardless of the input voltage and the load.

Automatic bypass provides continuous load supply in critical conditions, such as overheating or inverter failure.

Communication:

USB, RS232 for UPS and load supervision and control.

TVSS to protect tele information equipment.

Smart slot allows connect SNMP card to manage UPS throw network or AS400 card with potential free contactors.

LCD control panel displays UPS and power parameters as well as hundreds of useful information.

Small dimensions only 2U provides minimum space in rack to install.

High efficiency up to 95% in online mode to minimizes energy consumption and reduces heat emissions, which makes cooling of rooms cheaper.

ECO-Mode allows 99% efficiency and additional energy savings.

CVCF Frequency converter mode allows UPF to operate in the 50 Hz or 60 Hz to supply non-standard receivers.

Automatic diagnostics guarantee full device performance, control of components and operating parameters without user intervention.

The high value of input power factor restricts the current value of the device from professional network.

Wide input voltage range for normal mode ensures that batteries are used only if necessary – in fact, only when the input voltage is completely lost.

The ability to extend the backup time by adding battery modules allows you to precisely adjust the required autonomy time.

The high output power factor PF=1 guarantees up to 30% more active power compared to other power supplies in this class.

Wide input frequency range for normal mode makes possible to freely use the power supply in a mixed network of city-generator.

Auto restart guarantees maintenance-free operation in case of long power failure.

Cold start provides possibility to launch UPS without main voltage.

Advanced battery management guarantees optimum battery charging and usage. The 3-stage charging process extends their service life up to 50% and reduces operating costs.

Excellent voltage quality achieved by using the IGBT (3L) inverter and high frequency PWM modulation ensures that the voltage is delivered in extremely stable parameters, regardless of power interference and the type of power supply.

Overload resistance is reliable power supply with transient states and high fault tolerance.

Advanced software gives the user complete control over the device and the power receivers.

EPO connector provides the ability to remotely switch off the power supply in the case of fire.

Programmable output sockets allows you to manage the presence of output voltage during battery operation.

UNINTERRUPTIBLE POWER SUPPLY



THE POWER IS ON

Power	900W 1000VA	1800W 2000VA	2700W 3000VA
No. Of phases IN : OUT	1:1		
Input			
Nominal voltage	208 / 220 / 230 / 240 Vac		
Voltage range	-30% ÷ +30% @ 100% ≥ obc. > 80% -40% ÷ +30% @ 80% ≥ obc. > 70% -48% ÷ +30% @ 70% ≥ obc. > 60% -52% ÷ +30% @ 60% ≥ obc. > 0%		
Frequency	50 / 60 Hz		
Frequency range	-20% ÷ +20%		
THDi	<3%		
Input power factor	≥0,99		
Output			
Nominal voltage	208 / 220 / 230 / 240 Vac		
Output power factor	0,9		
Voltage regulation static/dynamic	±1% / ±3%		
Frequency	50 / 60 ± 0,05 Hz		
Overload capacity inverter	110% - no limit, 130% - 5 min, 140% - 30 sec., >140% - 1,5 sec.		
Efficiency on line mode	>92%		
Efficiency eco mode	99%		
Controlled socket groups	1 x 4 psc.	1 x 4 psc.	1 x 4 psc.
Type and number of sockets	IEC320-C13 x8	IEC320-C13 x8	IEC320-C13 x8 IEC320-C19 x1
Creast factor	3:1		
Batteries			
Amount of internal batteries	3 x 7/9Ah	4 x 7/9Ah	6 x 7/ 9Ah
Cold start	yes		
Connector for external batteries	yes		
Charging time	4 hours up to 90% of capacity		
Dimensions and weight			
Dimensions of UPS (W x D x H) [mm]	438 x 410 x 88 (2U)	438 x 510 x 88 (2U)	438 x 630 x 88 (2U)
Weight of UPS [kg]	14,2 kg	19,5 kg	27,4 kg
Dimensions of battery module (W x D x H) [mm]	438 x 410 x 88 (2U)	438 x 510 x 88 (2U)	438 x 630 x 88 (2U)
Weight of battery module [kg]	21,3 kg	28,5 kg	40,8 kg
Communications			
Working indicator	LCD panel + sound alarm		
Communications	Standard: RS232, USB, TVSS, SNMP Slot, REPO Optional: AS-400 card, SNMP card		
Environmental			
Noise level	<45 dB		
Operating temperature for UPS	0°C ÷ 45°C		
Recommended operating temperature for UPS	15°C ÷ 25°C		
Storage temperature	-25°C ÷ 55°C		
Humidity	0 ÷ 95% (without condensing)		
Certification			
Standards	EN 62040-2:2006		
Safety	EN 62040-1:2008 + A1:2013, CE, EN 62040-3 :2001, EN 60950-1, EN61000-3-2 :2014		
Options			
- SNMP adapter	- Additional battery module		
- Environmental sensor (EMD)	- Rail Kit 19"		
- REPO	- AS-400 (Relay Card)		

