

WINTER

TECHNOLOGY:	Line Interactive Pure Sine Wave
CLASSIFICATION:	VI-SS-311 (EN 62040-3)
POWER RANGE:	3 kVA
No. OF PHASES:	1:1



■ APPLICATIONS

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

■ SPECIFICATION

Line Interactive – Pure Sine Wave (EN 62040-3) provides perfect sine wave during normal and battery work. Simultaneously is very high efficient and quiet.

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.

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 97% 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.

Hot-swap battery gives possibility to change battery without disconnecting loads.

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

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.

TVSS slot built-in RJ-45 connectors guarantee safety of data send through network.

WINTER

Model	Winter 3K
Power	3000 VA / 2700 W
No. Of phases IN : OUT	1:1
Input	
Nominal voltage	208 / 220 / 230 / 240 VAC
Voltage range	162 – 290 VAC
Frequency	50 / 60 Hz
Frequency range	-20% ÷ +20%
THDi	<3%
Input power factor	≥0,99
Socket	IEC 320 C20
Output	
Nominal voltage	208 / 220 / 230 / 240 VAC
Voltage regulation	±5%
Frequency	50 / 60 Hz ± 0,05 Hz
Switching time	1,5 ÷ 6 ms
Overload capacity inverter	110% - no limit, 130% - 5 min., 140% - 30 sec., >140% - 1,5 sec.
Type and number of sockets	IEC320-C13 x 8, IEC320-C19 x 1
Creast factor	3:1
Batteries	
Amount of internal batteries	6 x 7/9 Ah
Cold start	Yes
Connector for external batteries	Yes
Charging time	4 hours up to 90% of capacity (configurable)
Weight and dimensions	
Dimensions and weight of UPS (W x D x H)	438 x 630 x 88 (2U) 29,3 kg
Communications	
Working indicator	LCD + indicators LED, alarm sound alarm
Communications	Standard: USB, RS232, TVSS, Smart slot, EPO Options: AS400 card, SNMP card
Environmental	
Noise level	<45 dB
Operating temperature for UPS	0°C ÷ 40°C
Recommended operating temperature for UPS	15°C ÷ 25°C
Storage temperature	-25°C ÷ 55°C
Humidity	0 ÷ 95% (without condensing)
Certification	
Standards	EN 62040-2:2005, EN 62040-2:2006
Safety	IEC62040-1-1, CE, 62040-3 :2001
Options	
- SNMP card - Environmental sensor (EMD) - Maintenance bypass - REPO	- AS400 card - Additional battery module - Rail kits 19"

