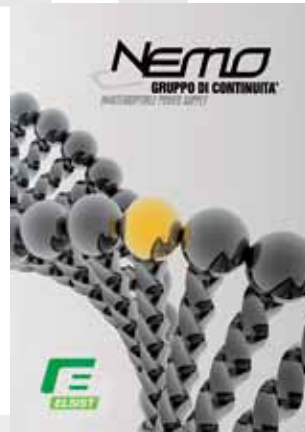


Multistation



Uninterruptible Power Systems



What an UPS is?

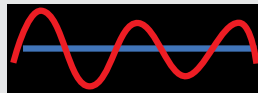
An Uninterruptible Power Supply (UPS) is a device connected between the electrical mains and the critical load. It allows any load (a computer, a workstation, a printer, an electrical system, etc.) to keep running for some time when the primary power source is lost. Moreover, it protects the load from any disturbance generated by the source. The UPS usually includes three main blocks:

RECTIFIER	it converts the AC input voltage into an intermediate DC voltage and charges the battery.
INVERTER	it converts the DC voltage into a filtered AC voltage to the load.
BATTERIES SET	they store energy when mains is present. when input source is lost they supply the load for a certain amount of time .

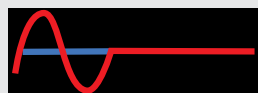
Technical Term	Symbol	Description
Volt	V	Voltage
Ampere	A	Current
Power Factor	$\text{Cos } \varphi$	The ratio of Real Power (kW) to Apparent Power (kVA)
Kilowatt	kW	Real Power (Volt x Ampere x Cos φ)
Kilovoltampere	kVA	Apparent Power (Volt x Ampere)
Frequency	Hz	Number of cycles per second

ELECTRICAL DISTURBANCES

Sometimes we experience electrical disturbances on the mains such as voltage fluctuations, spikes, flickering, blackouts that can disturb the correct operation of our systems or even cause them damages. There are various kind of electrical disturbances. Hereafter, we're listing the most common ones:



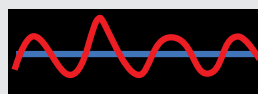
SAGS a sudden decrease of input voltage for a short time.
BROWNOUTS are steady decrease of input voltage for a long time. The load is still supplied but at a voltage below its tolerances.



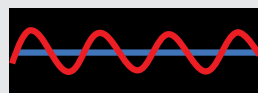
BLACKOUTS no power at all, in this condition the load is not supplied



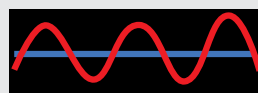
SPIKES a sudden and very large increase in the voltage level. Quite dangerous for the load



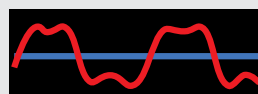
SURGES a sudden increase in the voltage level above the normal level, usually more than 20ms



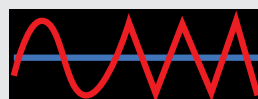
NOISE voltage disturbances generated by magnetic field interference (EMI) or by radio frequency interference (RFI)



OVER VOLTAGE an increase of input voltage for a long period of time. The load is still supplied with a voltage above its tolerances. A dangerous condition for the load.



HARMONICS a distortion of the voltage waveform



FREQUENCY FLUCTUATION a frequency variation



MULTISTATION 1000

Single-Phase Line Interactive UPS

Protect your equipment with an uninterruptible power supply against data loss. Multistation 1000 has an output capability of 1000 VA. This device is mainly designed for domestic multimedia or small office applications. It provides complete surge protection for critical loads, which are connected directly to protected sockets through the UPS.

It has a Line-interactive technology with pseudo-sinusoidal waveform and a short transfer time of 2ms. Autonomy time during a black-out is about 10'.

With its compact design, Multistation 1000 is equipped with 3 schuko outlets protected against power outages and with 3 filtered schuko outlets. It has also a USB interface for communication and a USB CHARGER output to recharge devices such as mobile phone, tablet or similar.



Code		MULTISTATION 1000
Technical Requirements		
Power	VA	1000
Input Voltage		230 Vac \pm 30%
Input Frequency		50/60 Hz \pm 5%
Output Voltage		230 Vac \pm 10% (\pm 5% without mains)
Output Frequency		50/60 Hz \pm 1%
Autonomy time (average)		10'
Battery		sealed, maintenance-free lead-acid
Output Outlets		3 protected by UPS – 3 filtered and protected against voltage fluctuations
Modem/T port (10BaseT/100BaseT)		RJ11 (2 wires, single line) or RJ45 (compatible network)
USB charger		USB output to recharge external device
Display LEDs		standard
Dimensions and Weight		
Dimensions (WxHxD)	mm	202x91x290
Weight UPS standard with battery	kg	2,2



NaiconGroup

Naicon srl Via il Caravaggio, 25 Trecella
I-20060 Pozzuolo Martesana - Milano (Italy)
Tel. +39 02 95.003.1 Fax +39 02 95.003.313
www.naicon.com e-mail: naicon@naicon.com

