



UPS3RE SINGLE-PHASE UNINTERRUPTIBLE POWER SUPPLY



key features

- input: 230 Vac 50/60 Hz
- output: 230 Vac 50/60 Hz
- sinewave at low harmonic distortion
- automatic switch-over in case of main power failure
- it can be carried in container with internal 4 unit rack std 19"

description

UPS3 is an uninterruptible power supply system able to power up to 2 kVA with 230 Vac voltage and 50 or 60Hz frequency systems. Frequency will be automatically selected according to main input frequency.

The system is equipped with inner batteries ensuring over 7 min endurance at max power in case of main input shutdown.

An “online double converter” technology is used: the charge is usually powered by the electronic inverter of UPS3RE which on turn can be powered either by the main voltage or the battery voltage. In this case the operation time is null and the output voltage is kept steady whatever is the main input voltage.

The system is equipped with an automatic bypass which in case of overcharge or any other failure ensures power continuity.

UPS3 fully utilizes the battery charge range according to temperature so that batteries will have a longer life and perfect efficiency during all operation temperature.

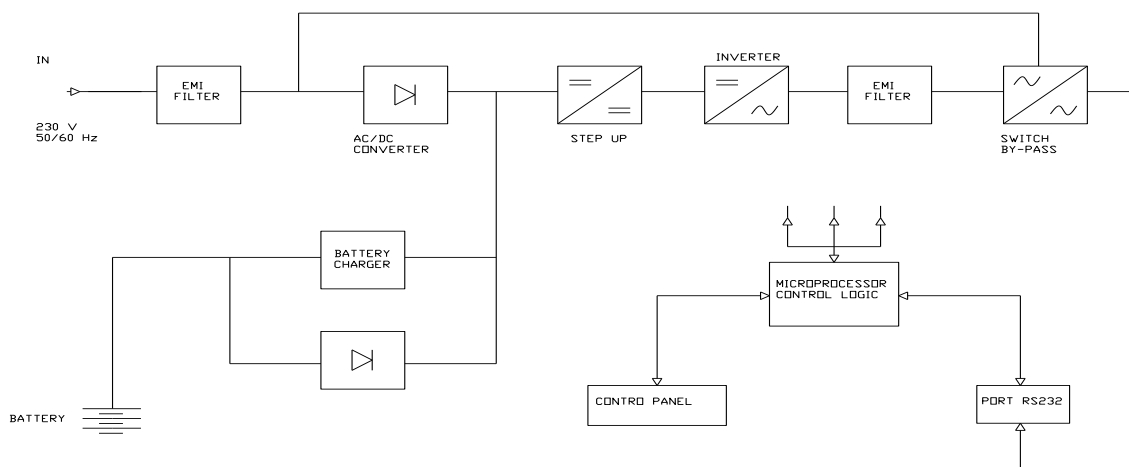
A mimic panel on the front part of UPS3RE displays the system performance range, the battery charge percentage and output charge and the presence of any alarms. The same info is available for remote control by means of a digital RS232 channel.

No adjusting or calibration is needed when setting or maintaining the system. Regular maintenance activities are only battery and fan replacement.

UPS3RE is included in an aluminium alloy container with 4 unit internal rack, shock absorber, 19” aluminum frame and 8 antivibration isolation system. It can be carried by 2 people by handles and laid on the ground for operation.

The container is equipped with a safety valve for pressure setting, humidity indicator and 4 unmovable wheels, 2 of which with brake.

Block diagram



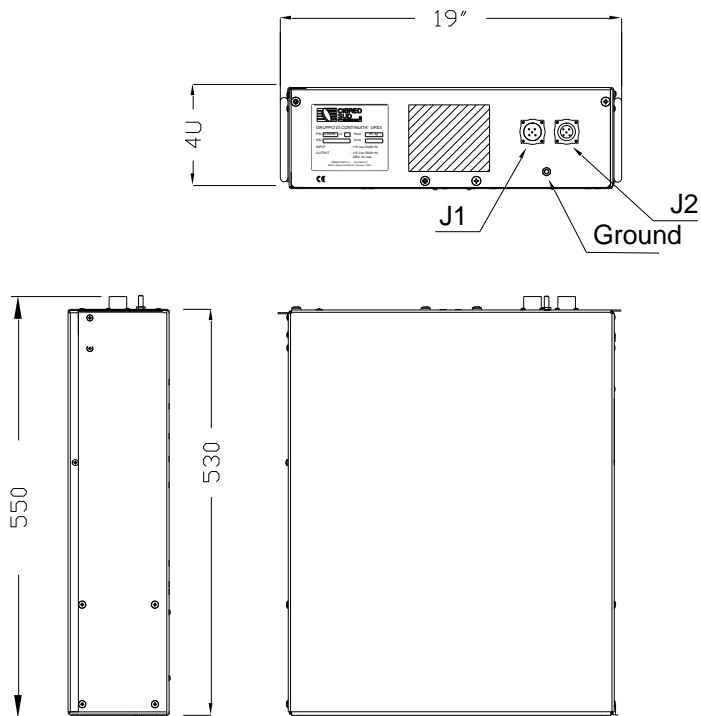
performance

Nominal power	: 2000 VA / 1500 W
Overcharge capacity	: 110% for undefined time up to 40°C
	: 150% for 10 sec
Output voltage	: 230Vac
Output voltage distortion	: < 5%
Steadiness at output voltage	: +-5%
Output frequency	: 50Hz or 60Hz (automatic)
Frequency steadiness	: +- 0,1% with battery operation
Output wave	: sinewave
Harmonic distortion (THDi)	: <3%
Output connector on the front panel	: Marechal 6514015
Input voltage	: 230Vac
Input voltage tolerance	: +-20% (with no battery use)
Input power range (cosφ)	: > 0,9 for any charge condition
Input frequency	: 50 o 60Hz auto frequency sensing
Input frequency tolerance	: +-3% (with no battery use)
Input connector on the front panel	: Marechal 6518015
Ground socket	: connection on the front panel, M10 thread, 8 mm min extension
Operation mode	: on-line, double converter
Operation time	: null
Lifetime	: > 7 min. with standard battery pack
Output protections	: short circuit and overvoltage
Input protections	: when tolerance limits of voltage and frequency are exceeded the input is disconnected and UPS3 keeps working powered by batteries. Automatic restoration to tolerance will follow
Pulsed voltage protection	: UPS3RE is protected from pulsed overvoltage up to 2kV with normalized pulse1,2/50µs according to the IEC 801-5 norm
Heat protection	: included
Battery protection	: over-discharge
Safety	: EN 62040-1-1, EN 60950-22 2007 ed. 1 and 2006/95/CE directive
EMC	: EN 62040-2 class B and 2004/108/CE directive
Cooling	: by natural convection
Battery life	: > 7 min at nominal power and 25° C room temperature
Operation time	: null, either in switching from main power to battery or from inverter to bypass output and viceversa
Battery test	: automatic
Recharge time	: 4 hour time to get 80% full charge
Electronic bypass	: automatic in case of overcharge or failure
Local panel	: led mimic panel
Communication interface	: digital RS232
BITE	: automatic online, in case of failure the malfunction is displayed on the local panel and alarm messages are sent to the communication interface

mechanical characteristics and environmental conditions

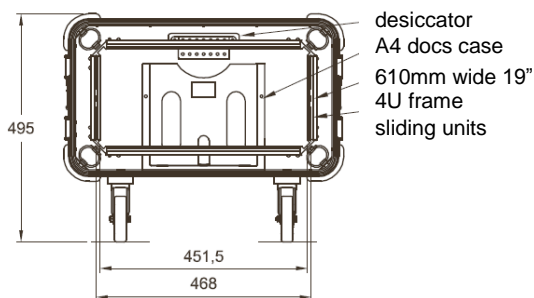
Noise	: <45 dBA in any condition
Operation temperature	: -20 +55°C
Non-operation temperature	: -40 +70°C
Protection level	: IP44
Altitude	: operation 3000 m max non-operation 9000 m max
Operation humidity	: up to 100% non moisture
Sand and dust	: according to MIL-STD 810F met. 510.4 proc. II (blonding sand)
Salt atmosphere	: according to MIL_STD 810C met. 509-2
Vibration	: according to MIL-STD 810F met. 514.5, cat. 20, proc. I
Shock	: according to MIL-STD 810F met. 516.5, proc. I, level 40g 15ms
Heat shock	: according to MIL-STD 810F met. 503.4
Dimensions	: see outline
Weight	: 65 kg

UPS outline

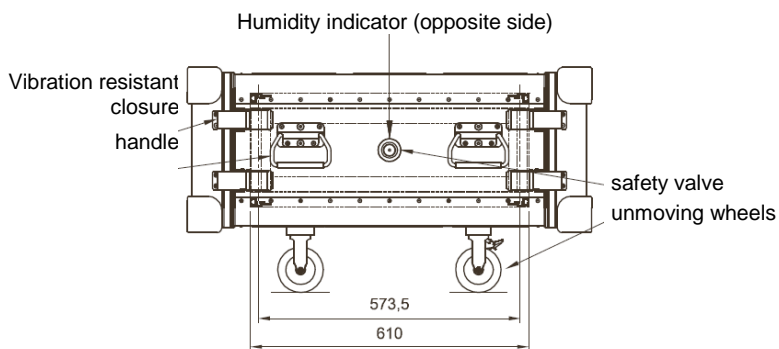


UPS CONTAINER outline

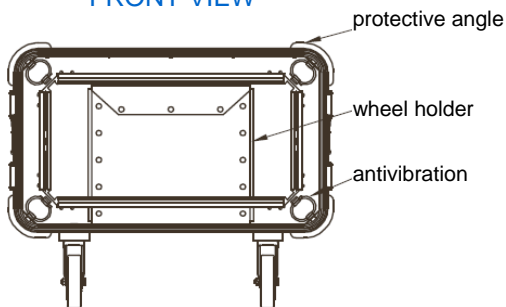
REAR VIEW



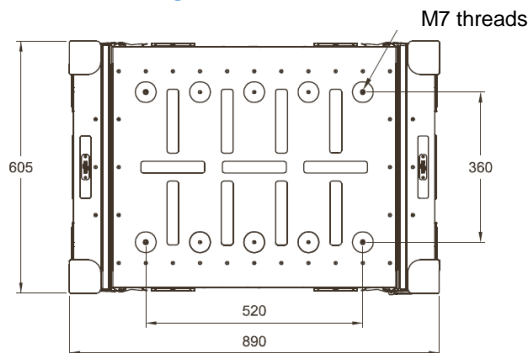
SIDE VIEW



FRONT VIEW



UPPER VIEW



The equipment illustrated are fully equipped versions. CIBRED SUD reserves the right to modify without notice characteristics and data supplied herein.



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