



THE SUPERNOVA SERIES IS THE LATEST TECHNOLOGICAL NOVELTY ENGINEERED BY POWERTRONIX, COVERED BY **two PATENTS** (Nr. 002509 AND Nr. 002510). THE SERIES HAS SIX POWER RATINGS: **160, 200, 250, 300, 400 AND 500 kVA**. THESE UPS ARE STUDIED TO PROTECT LARGE ELECTRICAL INSTALLATIONS, INTELLIGENT BUILDINGS, INDUSTRIAL PLANTS, AUTOMATED PRODUCTION LINES.

THIS THREE PHASE UNINTERRUPTIBLE POWER SUPPLY SERIES HAS TRUE **ON-LINE DOUBLE CONVERSION** TOPOLOGY, **HIGH FREQUENCY PWM TECHNOLOGY, DIGITAL CONTROL, 0.99 POWER FACTOR, LOW NOISE LEVEL, HIGH EFFICIENCY AND UPGRADED MAN-MACHINE INTERFACE**. UP TO 8 SYSTEMS CAN BE INSTALLED IN PARALLEL CONNECTION WITH DISTRIBUTED BY-PASS. ALL THESE ARE CHARACTERISTICS THAT ALLOW US TO CONFIRM THAT THE SUPERNOVA UPS SYSTEMS ARE AN EXPERT SOLUTION FOR ANY TYPE OF POWER SUPPLY REQUIREMENT.

**THE SUPERNOVA SERIES HAS A SPECIAL AND INNOVATIVE COOLING SYSTEM** (PATENT Nr. 002589) WHERE THE COOLING FLUID IS CIRCULATING IN A SEALED CIRCUIT CHILLED BY REDUNDANT COOLING FANS. THIS INNOVATIVE FEATURE IS STUDIED TO ELIMINATE THE HEAT STRESS FROM THE POWER COMPONENTS FOR A BETTER UPS PERFORMANCE AND AN EFFICIENCY IMPROVEMENT. **THANKS TO THIS TECHNOLOGY THE COMPONENTS ARE COOLED BETTER THAN IN ANY OTHER SYSTEM AVAILABLE ON THE MARKET.**

MOREOVER THE HEAT EXCHANGER OF THE COOLING SYSTEM CAN BE INSTALLED IN A DIFFERENT ROOM FROM THE ONE WHERE THE UPS IS LOCATED, OR EVEN OUTSIDE THE BUILDING, THUS AVOIDING THE NEED TO HAVE AN AIR-CONDITIONING DEVICE WHERE THE UPS IS INSTALLED. **THE BENEFITS OF THE POWERTRONIX SOLUTION ARE THE SAVING OF ENERGY AND A/C COST.** A TOTALLY NEW 12 PULSE CONFIGURATION LIMITS THE INPUT TOTAL HARMONIC DISTORTION TO LESS THAN 5%.

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#### *PATENTS*

DOUBLE VOLTAGE BOOSTER DC/DC CONVERTER FOR HIGH POWER ELECTRONIC SUPPLIES.

SATURABLE REACTOR WITH FERRITE CORE.

RADIO FREQUENCY SUPPRESSION ELECTRONIC FILTER.

AIR/LIQUID HEAT COOLING SYSTEM FOR HIGH POWER SEMICONDUCTORS ASSEMBLY.

## ACCESSORIES AND FEATURES:

EMERGENCY POWER OFF (EPO)  
RELAY CARD FREE CONTACTS  
RS232 FOR REMOTE CONTROL  
POWER SAVE OPERATION MODE  
FREQUENCY CONVERTER 50/60 Hz OR 60/50 Hz OPERATION MODE  
FRONT ACCESS  
SELF DIAGNOSTIC

## OPTIONS:

Management Software  
SNMP Adapter  
Teleservice  
Remote Panel  
Isolation transformer  
Backfeed protection system  
Extra relay card  
Protection degree IP31

## TECHNICAL DATA

## SUPERNOVA

NOMINAL POWER (kVA)	160	200	250	300	400	500
ACTIVE POWER (kW)	128	160	200	240	320	400
TECHNOLOGY	ON LINE, DOUBLE CONVERSION					

## INPUT

NOMINAL VOLTAGE	380/400/415 VAC THREE PHASE + N
VOLTAGE STABILITY	± 20%
NOMINAL FREQUENCY	50/60 Hz
POWER FACTOR	> 0.95 (> 0.99*)

## OUTPUT

NOMINAL VOLTAGE	380/400/415 VAC THREE PHASE + N
VOLTAGE STABILITY	±1%
NOMINAL FREQUENCY	50/60 Hz
POWER FACTOR	0.8
FULL LOAD EFFICIENCY	UP TO 95%

## GENERAL DATA

MECHANICAL DIMENSION	1240 x 800 x 1800 mm (W x L x H)
IP PROTECTION RATING	IP20 (UPGRADABLE TO IP31)
NOISE	65 dB (A)
OPERATING TEMP. RANGE	0÷40 °C
BATTERY TEMP. RANGE	AS SUGGESTED BY THE BATTERY MANUFACTURER (18÷25 °C)
RELATIVE HUMIDITY	< 95% NOT CONDENSING
COLOUR	GREY RAL 7035 (BLACK RAL 7016 ON REQUEST)
COMPLIANCE	EN62040-1, EN62040-2, EN62040-3

(\*) WITH 12 PULSE VERSION + INTEGRATED FILTER OPTIONS