



## RIELLO MST 30 MULTY SENTRY UPS 30000 VA Without Batteries

Reference: RIEDMSTK30AT100

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The Multi Sentry series is ideal for the protection of data centers and telecommunication systems, computer networks and critical systems in general, where the risks associated with poor power quality can compromise the continuity of business and services.

The Multi Sentry series is available in models 10-15-20- 30-40-60-80-100-125-160-200 kVA with three-phase input and output and On Line double conversion technology according to VFI-SS-111 classification (as defined by IEC EN 62040-3).

Multi Sentry is designed and manufactured with state of the art technology and components, and is equipped with an IGBT rectifier for minimum impact on the power line.

It is also controlled by a DSP (Digital Signal Processor) microprocessor to provide the maximum protection against powered loads without impact on downstream systems and to optimize energy savings.

#### Zero impact source

Thanks to the technology used, Multi Sentry solves any problem of insertion in systems where the power supply network has a limited installed power, where the UPS is also powered by a generator set or in any case where there are problems of compatibility with loads that generate current harmonics; in fact Multi Sentry has zero impact on the power source, be it the mains or a generator set:

- input current distortion of less than 3%.
- input power factor 0.99
- power walk-in function that guarantees a progressive rectifier start-up
- power on delay function, to restart the rectifier starts at mains return, if there are several UPS in the system.

Multi Sentry also plays a filtering and power factor correction role towards the power supply network upstream of the UPS, as it eliminates the harmonic components and reactive power generated by the powered consumers.

#### High efficiency

The use of modern three-level NPC inverters in the entire power range (30÷200) allows for an operational efficiency of 96.5%. These technological solutions

They save more than 50% of the energy dissipated in a year, compared to a similar product on the market with 92% efficiency. The exceptional return value makes it possible to recover the initial investment in less than 3 years of operation.

#### Battery care system

Battery management is of paramount importance to ensure operation of the uninterruptible power supply in emergency conditions.

Battery Care System consists of a series of functions and performances that allow to manage the batteries of accumulators in order to obtain the best performances and to extend their working life.

**Battery charging:** Multi Sentry is suitable to work with lead-acid batteries. hermetic (VRLA), AGM and GEL, open pot and Nickel Cadmium.

Depending on the type of battery, different charging methods are available:

- One-level charging, typically used for larger VRLA AGM batteries diffusion
- Recharge at two voltage levels according to the IU characteristic
- Charge lock system to reduce electrolyte consumption and further extend the life of VRLA batteries.

Temperature-dependent charging voltage compensation to avoid overcharging and overheating of the batteries.

Battery testing to diagnose performance degradation or failure in time on the batteries.

Protection against deep discharges: in the presence of long lasting and low discharges the end-of-discharge voltage is increased, as prescribed by the battery manufacturers, to avoid damage or reduction in battery performance.

Current ripple: the ripple (residual alternating current component) of charging current is a of the most important causes that reduce the reliability and life of the battery.

Multi Sentry, thanks to the high-frequency charger reduces this value to levels negligible, extending its life and maintaining its high performance for a long time.

Wide voltage range: the rectifier is designed to work with a wide range of voltages. range of input voltage values (up to - 40% with half load), reducing the the need to discharge the batteries and, consequently, to lengthen them. life.

Images and technical data are not binding.

## Technical Sheet

Phase	Single phase
Frequency (Hz)	50 / 60
Voltage (V)	380/400/415 Vac 1PH + N
Protection degree	IP20
Power (VA)	30000
Battery type	maintenance-free hermetic lead
Operating temperature (°C)	0 °C / +40 °C
Acoustic pressure	48 dB(A) 1 mt
Length (mm)	850
Width (mm)	440
Height (mm)	1320
Dry weight (Kg)	335
Product type	UPS
Colour	Grey