

Home Office
SME Use
Telecommunications
Data Centre





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Riello Multi Sentry 100kVA 3/3 Phase

Part No. MST 100

Product Description

Please Note: This UPS will require a separate battery cabinet - please contact us for runtime details.

The Riello Multi Sentry is a state-of-the-art uninterruptible power supply, achieving the highest possible level of on-line double-conversion performance (VFI-SS-111) as defined within IEC EN 62040-3.

The UPS has been designed to protect critical information and telecommunications systems, networks, services and processes whose operation could be disrupted by poor power quality and/or breaks in their mains power supply.

The Multi Sentry UPS is one of the most efficient UPS available with a minimal impact on its environment and power sources.

ZERO IMPACT SOURCE

MULTI SENTRY UPS are easy to install, especially on sites where there is limited power capacity available, a standby generator and potentially harmonic compatibility issues:

Low input current distortion - less than 2.5%

High input power factor 0.99

Power walk-in function to achieve progressive rectifier start-up

Delayed start-up on mains power supply return

MULTI SENTRY also performs the role of a high specification filter, protecting its power supply sources (mains or generator) from any harmonics and reactive power generated by the loads it is powering.

Features

BATTERY CARE SYSTEM

- The MULTI SENTRY Battery Care System optimises battery
 performance, to help extend their working life and ensure that the UPS
 can deliver its full-rated back-up time when called upon in an
 emergency.
- Battery recharge: MULTI SENTRY is designed to work with VRLA AGM and GEL lead-acid batteries including open-vented types, in addition to Ni-Cads. Specific management features include:
 - One-level recharge to meet the requirements of the most common VRLA AGM batteries
 - Two voltage level recharge meeting the IU characteristic
 - Restricted charging to reduce electrolyte consumption and extend the life of VRLA batteries
- Temperature compensation: to avoid excessive voltage being applied to the batteries in a high ambient
- Battery test: to detect performance degradation and predict battery failure.
- Deep discharge protection: to prevent the batteries being discharged below a level from which they cannot be recovered (especially when discharged over long periods with very low loads).
- Low AC ripple current: from a high-frequency battery charger, to ensure the batteries are not subjected to this damaging element commonly experienced with some other UPS and power supply designs.
- Wide input voltage range: from a rectifier that can work down to less than 40% of its nominal supply rating (at half load), removing the need to discharge the batteries.

FLEXIBILITY

- MULTI SENTRY can be used for a wide range of applications, thanks to its configuration options, flexibility, accessories and performance levels:
 - Suitable for powering capacitive loads, for example Blade servers - without any reduction in active power, from 0.9 leading to 0.9 lagging
 - Modes of operation include: On-Line, Eco, Smart-Active and Stand-By/Off
 - Frequency conversion mode
 - Power Share connections for priority-based load shedding when the mains power supply has failed
 - Cold-start facility to switch the UPS on even without a mains power supply present
 - o Extensive back-up time options using battery extension cabinets
 - Optional battery cabinet temperature sensor to assist the temperature compensating charger
 - Optional battery chargers to optimize recharge times
 - Optional dual input supplies
 - Optional isolation transformers for Galvanic isolation and neutral connectivity

ADVANCED COMMUNICATION

 MULTI SENTRY has a large front panel graphic display providing information including: real-time measurements, operating status and

- alarms conditions in eight different languages
- Advanced multiplatform communication, for all operating systems and network environments: PowerShield³ monitoring and shutdown software included with SNMP agent
- Compatible with TeleNetGuard for the remote assistance service
- RS232 or USB serial port
- Three communication slots for accessories, including network adapters and volt-free contacts
- REPO (Remote Emergency Power Off) to shut down the UPS remotely in an emergency
- Input for connection of an auxiliary contact for an external manual bypass
- Input for synchronisation with an external power source
- Graphic mimic panel display for remote connection.

LOW MANAGEMENT COST

- The MULTI SENTRY design provides exceptional performance and efficiency levels, within a very compact footprint and overall case design:
 - Lowest footprint in its category 0.37m² for the 40kVA MULTI SENTRY with internal batteries.
 - High efficiency up to 96% saving up to 35% in dissipated energy in one year compared to a more traditional UPS (92%) resulting in a faster payback period of three years.

Specification

Manufacturer	Riello
Power (Va)	100kVA
Real Power (Watts)	90kW
Input Phase	Three
Output Phase	Three
Supply Rating	250Amps
Weight (Kgs)	220Kgs
Depth (mm)	850mm
Width (mm)	500mm
Height (mm)	1,600mm
Input	Hardwired
Output	Hardwired