7 riello ups

Sentinel Dual

1-3 kVA









1-3 kVA





Energy share



Hot swap



Plug & Play

HIGHLIGHTS

- Power factor 0.9
- Simplified installation
- Installation versatility
- Reduced running costs
- Runtime expandability
- Low noise level

Sentinel Dual is the new range of high density double conversion online UPS, suitable for powering a wide range of devices such as servers, storage systems, telephony - VoIP equipment, network and medical systems as well as industrial applications.

It is also ideal for powering and protecting Blade Server systems with high input power factor. At only 2U, Sentinel Dual is ideal for 19" rack cabinet installations.

Sentinel Dual has a practical, modern design and includes several performance advantages over traditional on-line UPS. All developed by the Riello UPS research

and development team. The newly-designed inverter is one of the best energy conversion systems on the market, with a 0.9 output power factor and 92% operating efficiency in on-line mode.

For business continuity applications requiring long battery runtimes, battery autonomy can be extended up to several hours using ER models fitted with more powerful battery chargers.

With energy savings in mind, Sentinel Dual is also fitted with a shut-off button to reduce energy consumption to zero during prolonged periods of inactivity.















Simplified installation

- Sentinel Dual can be installed as a tower or in 19" rack cabinets, by simply removing and rotating the display panel
- Low noise (<40 dBA): can be installed in any environment thanks to its high frequency switching inverter and PWM load-dependent digitally controlled fan.
- Operation guaranteed up to 40°C (the components are designed for high temperatures and are thus subject to less stress at normal temperatures)
- On Sentinel Dual models, the output sockets can be programmed to disconnect less critical loads during blackouts (EnergyShare function).

Installation versatility

Sentinel Dual can be used in a tower or rack format, by simply turning the display and adding the supplied handles or optional runners.

Reduced running costs

The UPS is highly flexible and easy to configure. Programmable functions can be set via software or manually via the front display panel. Sentinel Dual can be configured in the following operating modes:

- On Line: maximum load protection and output voltage waveform quality
- **ECO Mode**: to increase efficiency (up to to 98%); allows you to select Line Interactive technology
- Smart Active: the UPS automatically decides the operating mode based on the mains power quality
- Emergency: the UPS can be selected to function only when the mains power supply fails (emergency only mode)
- Frequency converter: operation (50 or 60 Hz).

Advanced communications

Sentinel Dual offers maximum flexibility for integration with all types of communication systems.

- Multi-platform communication for all operating systems and network environments: PowerShield³ supervision and shutdown software for Windows operating systems 10, 8, 7, Hyper-V, 2016, 2012, and previous versions, Mac OS X, Linux, VMWare ESXi, Citrix XenServer and other Unix operating systems.
- UPS Tools configuration and customisation software supplied as standard
- RS232 serial port and opto-isolated contacts
- USB port
- Slot for communications boards such as Modbus/Jbus, TCP/IP-SNMP and relay contacts.

Emergency function

This configuration ensures the operation of emergency systems that must be supplied in the event of a mains power failure, such as emergency lighting, fire detection/extinguishing systems and alarms.

When the mains power supply fails, the inverter begins powering the loads with a progressive start-up (Soft Start) in order to prevent overload.

Sentinel Dual is compliant for installation in medium-voltage transformer rooms in accordance with applicable legislation, for the power supply with reserve charge of medium-voltage coils.

High quality output voltage

- Even with non-linear loads (IT loads with a crest factor of up to 3:1)
- · High short circuit current on bypass
- High overload capacity: 150% by inverter (even with mains failure)
- Filtered, stabilised and reliable voltage (On-line double conversion technology (VFI compliant with EN62040-2) with filters for the suppression of atmospheric disturbances
- Power factor correction: UPS input power factor close to 1 and sinusoidal current uptake.

High battery reliability

- Automatic and manual battery test
- Batteries are user replaceable without switching off equipment and without interruption to the load (Hot Swap)
- Unlimited extendible runtime using matching battery boxes.

Low noise level

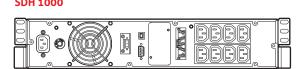
Thanks to the use of high frequency components and load-based fan speed control, the noise produced by the UPS is less than 40 dB.

Other features

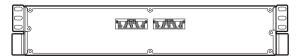
- Output voltage can be selected via software (220-230-240 V)
- Auto-restart when mains power is restored (programmable via software)
- Stand-by on bypass: when the machine is switched off, it automatically goes into bypass and battery charge mode
- · Minimum load switch-off
- · Battery discharge warning
- Start-up delay
- Total microprocessor control
- Automatic bypass without interruption
- Status, measurements and alarms available on standard backlit display
- UPS firmware updating via PC
- Input protection via resettable thermal switch (versions up to 1500 VA)
- Back-feed protection standard: to prevent energy from being fed back to the network
- · Manual switching to bypass.

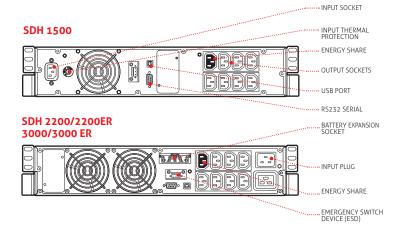
2-YEAR WARRANTY

SDH 1000



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SOFTWARE

PowerShield ³	
PowerNetGuard	
ACCESSORIES	
NETMAN 204	
MULTICOM 302	

MULTICOM 384
MULTI I/O
MULTIPANEL
Manual Bypass 16 A
Manual Bypass 16 A Rack
Automatic Bypass 16 A
Automatic Bypass 16 A Rack

PRODUCT ACCESSORIES

Universal rails for installation in rack cabinets

MODELS	BB SDH 36-A3 / BB SDH 36-M1	BB SDH 72-A3 / BB SDH 72-M1
Dimensions (mm)	057	625





