





**INDUSTRY** 





# SENTINEL RT

# True-Online Rack/Tower **UPS System** 6, 10 kVA





**USB** plug

Plug & Play installation

#### **HIGHLIGHTS**

- Power factor 1 kW = kVA
- Simplified installation
- High quality output voltage
- High battery reliability



SENTINEL RT is designed to power critical loads such as servers, storage systems, telephone equipment, medical systems and industrial applications.

The UPS is ideal for Blade servers with an input power factor close to Unity (1). The UPS has can be used as tower UPS or within a rackmount cabinet, and takes up only 2U in height.

SENTINEL RT has a modern design, choice of functional formats, and represents the state-of-the-art technology from the Riello UPS research & development team. The UPS can achieve an on-line operating efficiency of 92%.

For critical business continuity applications requiring long runtimes, SENTINEL RT can be installed with battery extension packs (ER models) with their own internal battery chargers to maintain sensible recharge times.

The UPS also incorporates the Riello UPS 'power-off' function found in other ECO Line UPS. SENTINEL RT is designed to save energy when no loads are connected.



- A. "SEL" Button
- B. "ON" Button
- C. "STAND-BY" Button



- **1.** Regular operating mode
- 2. Network operating mode
- 3. Battery operating mode
- 4. Load powered by bypass
- 5. Battery life indicator
- 6. Charge level indicator
- 7. Configuration area
- 8. Maintenance required indicator
- 9. Timer indicator
- 10. Measurement display area
- 11. Stand-by / alarm indicator
- 12. Energy Share indicator

#### Simplified installation

Tower or Rackmount UPS: SENTINEL RT can be installed as tower or 19" rack mount UPS, with a front mimic panel that can be turned through 90° to suit the installation.

- Noise Free Operation (<40dBA): the UPS can be installed in any environment thanks to its PWM digitally-controlled high frequency inverter.
- High Temperature Operation:
  UPS components are sized
  for high temperature operation
  up to 40°C and are not
  therefore stressed during normal
  operational environments.

#### **Reduced management costs**

SENTINEL RT can be programmed remotely via software or set manually from the front mimic panel to operate in a range of energy saving operating modes:

- On line: maximum power protection and output voltage waveform quality (efficiency up to 92%).
- Eco Mode: to increase efficiency (up to to 98%), allows for the selection of Line Interactive technology (VI) to power low priority loads from the mains supply.
- Smart Active: the UPS automatically decides upon the operating mode (VI or VFI) based on the quality of the mains power supply.
- STAND-BY OFF: the operating mode in which the UPS functions as an emergency device. While power is present the UPS does not intervene. In the event of a blackout, the necessary power is provided by the UPS.

## High quality output voltage

- Tower or Rackmount UPS: SENTINEL RT can be installed as tower or 19" rackmount UPS, with a front mimic panel that can be turned through 90° to suit the installation.
- Noise Free Operation (<40dBA): the UPS can be installed in any environment thanks to its PWM digitally-controlled high frequency inverter.

- High Temperature Operation:
  UPS components are sized for
  high temperature operation up
  to 40°C and are not therefore
  stressed during normal operational
  environments.
- EnergyShare: Premium Dual output sockets can be programmed to disconnect less critical loads when the mains power fails.

# High levels of battery reliability

- Automatic and manual battery tests.
- Batteries are 'hot-swappable' and user replaceable.

#### **Emergency function**

This configuration ensures the operation of those emergency systems that require continuous, reliable and long-lasting power supply 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.

#### Other features

- Output voltage can be selected using display.
- Auto-restart when mains power returns (programmed via software).
- Stand-by on Bypass: when the machine is switched off, it automatically goes into bypass operation with batteries charging.
- Power-Off with zero load connected to save energy.
- Low battery warning.
- Power-on delay.
- Full microprocessor control.
- Automatic bypass without interruption.
- Status, measurements and alarms available on the front panel mimic panel and LCD.
- UPS firmware upgrade via PC platform.
- Input protection including a user reset thermal switch (up to 1500VA).
- · Back-feed protection.
- · Manual option to switch to bypass.

#### **Advanced communications**

SENTINEL RT offers maximum flexibility for integrations with any communication system.

- · Multiplatform communication for all operating systems and network environments, Powershield3 supervision and shut-down software for Windows, Mac OS X operating systems and other Unix operating systems.
- UPS Tools configuration and personalisation software supplied as standard.
- RS232 serial port and opto-isolated contacts.
- USB port.
- Slot for TCP/IP, SNMP communication card.

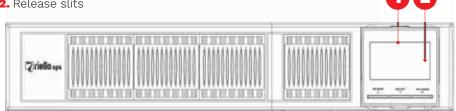
#### **Unity Power Factor**

- More power delivered.
- More real output power (W).

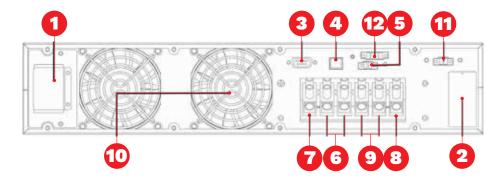
#### **2-YEAR WARRANTY**

## **FRONTAL VIEW**

- 1. Extractable / rotable display plate
- 2. Release slits



## **REAR VIEW**



- **1.** Battery cabinet connector
- 2. Communication card slot
- 3. RS232 Communication port
- 4. USB Communication port
- **5.** Remote control terminal port
- 6. Output terminal (Line+Neutral)
- 7. Output ground
- 8. Input ground

- 9. Input terminal (Line+Neutral)
- 10. Cooling fan
- 11. External maintenance bypass switch
- **12.** Dry contacts communication port
- 13. Extractable / rotatable display plate
- 14. Release slits

Model	UPS Cabinet	Battery Cabinet Qty	Transformer Cabinet for 120V/127V Output	Dimmensions (in Tower configuration) W x D x H (in)	Weight (lb)
SDH-6000-RT-ER-C0	Yes	0	Yes	9(5U)x25x19	181
SDH-10000-RT-ER-C0	Yes	0	Yes	9(5U)x25x19	249
SDH-6000-RT-ER-C1	Yes	1	Yes	14(8U)x26x19	302
SDH-10000-RT-ER-C1	Yes	1	Yes	14(8U)x29x19	370
SDH-6000-RT-ER-C2	Yes	2	Yes	19(11U)x26x19	423
SDH-10000-RT-ER-C2	Yes	2	Yes	19(11U)x29x19	492
SDH-6000-RT-ER-C3	Yes	3	Yes	25(14U)x26x19	545
SDH-10000-RT-ER-C3	Yes	3	Yes	25(14U)x29x19	613
SDH-6000-RT-ER-C4	Yes	4	Yes	30(17U)x26x19	666
SDH-10000-RT-ER-C4	Yes	4	Yes	30(17U)x29x19	734





3.4 x 17.24 x 24

Dimensions (WxDxH), in