

NETYS RT

Total protection on rack or tower
from 1100 to 11000 VA



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Simple to install

- No configuration necessary on first startup.
- Space and time saving 'tower-to-rack' conversion mode.
- Compact footprint (tower mode).
- High density rack enclosure saving valuable cabinet rack space.

High protection and availability

- Online double conversion technology with sinusoidal waveform, completely filters out all disturbances from / to the mains power supply and ensures maximum protection of the utility.
- Wide tolerance of the input voltage reduces switchovers to battery mode, prolonging battery life.
- Possibility of 1+1 parallel and redundant configuration to maximise the availability of critical utilities (up to 22 kVA).
- Hot-swap plug-in manual bypass.

Certified performance

- Performance tested and verified by independent laboratory.
- Full performance up to 40 °C without derating.

Easy to use

- Clear and uncluttered multilanguage LCD display.
- Wide range of communication protocols for integration into LAN networks or Building Management Systems.
- IoT ready device for access to connected services.
- Load segmentation function to prioritize loads and manage critical situations.

Extended and flexible back-up time

- Hot-swap modular battery extension (EBM) to meet all back-up time requirements, even after installation.
- Battery ageing detection function.
- Fast recharge - even for very long back-up time.
- Li-Ion battery technology-ready.

The solution for

- > Servers and networking devices
- > VoIP communication systems
- > Structured cabling systems
- > Video surveillance systems
- > Control systems
- > Switching
- > Edge data centres

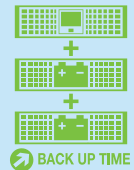
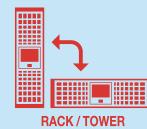
Compliance with standards

- > IEC 62040-1
- > IEC 62040-2
- > IEC 62040-3

Certifications



Advantages



Ready for Li-Ion battery

System features

- Rail kit.
- Embedded dry-contact interface (5000-11000 VA).
- Input mains switch breaker (5000-11000 VA).
- Connection for battery extension modules.
- Port for parallel operation (5000-11000 VA).
- Power off the UPS remotely.
- Internal temperature sensor.

System options

- UPS models with tropicalised (Conformal Coating) boards.

- Hot-swap battery extension modules.
- Hot-swap manual bypass.
- 1+1 parallel module (5000 - 11000 VA).

Standard communication features

- 1 slot for communication options.
- USB port for UPS management.
- MODBUS RTU (RS232).
- RS485 for Li-ion battery BMS.
- LOCAL VIEW software for local UPS monitoring and shutdown for Windows, Linux and MAC Osx.

Communication options

- Dry-contact card.
- NET VISION: professional WEB/SNMP, ethernet interface for UPS monitoring and remote automatic shutdown (MODBUS TCP).
- RT-VISION: WEB/SNMP interface for UPS monitoring and management.
- Environmental Monitoring Device (EMD).
- REMOTE VIEW PRO supervision software.

Technical data

NETYS RT

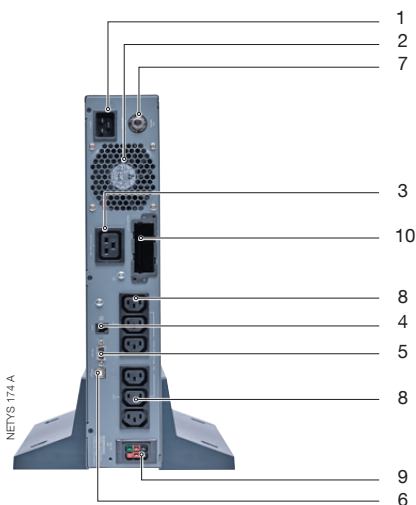
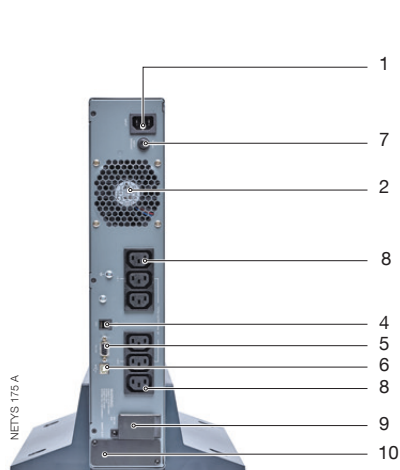
| Model | NRT2-U1100 | NRT2-U1700 | NRT2-U2200 | NRT2-U3300 | NRT3-5000K | NRT3-7000K | NRT3-9000K | NRT3-11000K |
|------------------------------------|---|---|---------------|---------------|--|---------------|----------------|----------------|
| Sn | 1100 VA | 1700 VA | 2200 VA | 3300 VA | 5000 VA | 7000 VA | 9000 VA | 11000 VA |
| Pn | 900 W | 1350 W | 1800 W | 2700 W | 5000 W | 6000 W | 8000 W | 10000 W |
| Architecture | online double conversion VFI with input PFC and automatic bypass | | | | | | | |
| Parallel redundant function | - | - | - | - | 1+1 | 1+1 | 1+1 | 1+1 |
| INPUT | | | | | | | | |
| Voltage | 230 V (1ph) 120÷280 V; (175÷280 V @100% load) | | | | 230 V (1ph) 100÷280 V; (175÷280 V @100% load) | | | |
| Frequency | 50/60 Hz +/-10% (Auto-Selectable) | | | | 40/70 Hz (50/60 Hz +/-10% Auto-Selectable) | | | |
| Power factor / THDi | >0.99 / <5% | | | | >0.99 / <3% | | | |
| Input socket | IEC 320-C14 (10 A) | IEC 320-C20 (16 A) | | | terminals | | | |
| OUTPUT | | | | | | | | |
| Voltage | 230 V (1ph) selectable 200 / 208 / 220 / 240 V - 50 or 60 Hz ± 2% (± 0.05 Hz in battery mode) | | | | | | | |
| Power factor | 0.9 @ 1000 VA | 0.9 @ 1500 VA | 0.9 @ 2000 VA | 0.9 @ 3000 VA | 1 @ 5000 VA | 1 @ 6000 VA | 1 @ 8000 VA | 1 @ 10000 VA |
| Efficiency | up to 93% online mode | | | | up to 95,5% online mode | | | |
| Overload capability | up to 105% continuously; 125% x 3 min; 150% x 30 sec | | | | up to 105% continuously; 125% x 2 min; 150% x 30 sec | | | |
| Output connections | 6 x IEC 320-C13 (10 A) | 6 x IEC 320-C13 (10 A) + 1 x IEC 320-C19 (16 A) | | | terminals | | | |
| BATTERY | | | | | | | | |
| Standard autonomy ⁽¹⁾ | 7 | 11 | 8 | 9 | 13 | 8 | 12 | 9 |
| Voltage | 24 VDC | 48 VDC | 48 VDC | 72 VDC | 192 VDC | 192 VDC | 240 VDC | 240 VDC |
| Recharge time | < 3 hr to recover 90% capacity | | | | < 6 hr to recover 90% capacity | | | |
| COMMUNICATION | | | | | | | | |
| Mimic panel | LCD with graphical icons | | | | LCD with menu available in 10 languages | | | |
| RS232 MODBUS protocol | • | • | • | • | • | • | • | • |
| USB port | • | • | • | • | • | • | • | • |
| WEB/SNMP (Ethernet RJ45 port) | option | option | option | option | option | option | option | option |
| COMM slot | • | • | • | • | • | • | • | • |
| Dry contacts | option | option | option | option | • | • | • | • |
| EPO input | • | • | • | • | • | • | • | • |
| Parallel port | - | - | - | - | • | • | • | • |
| STANDARDS | | | | | | | | |
| Safety | IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2 | | | | | | | |
| EMC | IEC/EN 62040-2, AS 62040.2 | | | | | | | |
| Performance | IEC/EN 62040-3 (efficiency tested by an external independent body) | | | | | | | |
| Product declaration ⁽²⁾ | CE, RCM (E2376) | | | | | | | |
| ENVIRONMENT | | | | | | | | |
| Operating ambient temperature | from 0 °C to +40 °C (up to 45 °C ⁽³⁾) | | | | | | | |
| Storage temperature range | from -15 °C to +55 °C (from 15 °C to 25 °C for best battery life) | | | | | | | |
| Relative Humidity | 5-95% non-condensing | | | | | | | |
| Noise level (ISO 3746) | < 45 dBA | < 50 dBA | | | < 55 dBA | | | |
| UPS CABINET | | | | | | | | |
| UPS size std (W x D x H) | 89x332x440 mm | 89x430x440 mm | 89x430x440 mm | 89x608x440 mm | 89x430x440 mm | 89x430x440 mm | 89x565x440 mm | 89x565x440 mm |
| UPS size RACK | 2U | 2U | 2U | 2U | 2U | 2U | 2U | 2U |
| UPS weight std | 13 kg | 18 kg | 19 kg | 30 kg | 11 kg | 12 kg | 16 kg | 17 kg |
| IP rating | IP20 | | | | | | | |
| EBM module size (W x D x H) | 89x332x440 mm | 89x430x440 mm | 89x430x440 mm | 89x608x440 mm | 89x565x440 mm | 89x565x440 mm | 131x650x440 mm | 131x650x440 mm |
| EBM module RACK | 2U | 2U | 2U | 2U | 2U | 2U | 3U | 3U |
| EBM module weight | 16 kg | 29 kg | 29 kg | 43 kg | 39 kg | 39 kg | 67 kg | 67 kg |

(1) @75% of rated load PF 0.7. (2) BIS compliance for 5000 VA and 7000VA models. (3) Conditions apply.

NETYS RT

Single-phase UPS
from 1100 to 11000 VA

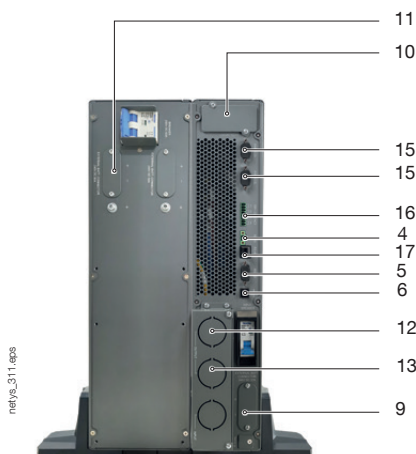
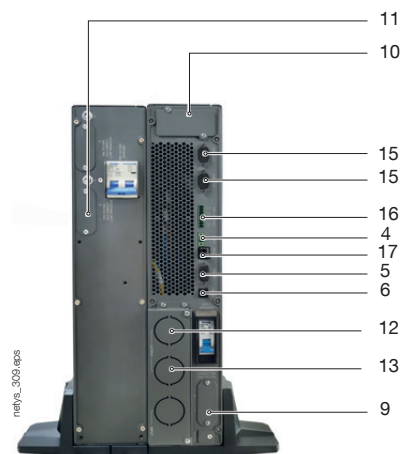
Connections



- 1. Mains input socket (IEC 320)
- 2. Fan
- 7. Output socket (full power)
- 3. Output socket (full power)
- 4. Input to power off the UPS remotely
- 5. RS232 interface (MODBUS protocol)
- 6. USB port
- 7. Input protection
- 8. Output sockets (IEC 320 - 10 A)
- 10. Slot for optional communication boards
- 8. Output sockets (IEC 320 - 10 A)
- 4. Input terminals
- 5. Input terminals
- 8. Input switch
- 11. Battery extension connector
- 12. Output terminals
- 13. Input terminals
- 14. Input switch
- 15. Parallel port connector
- 16. Dry contact interface
- 17. RS485 for Li-ion battery BMS

1100 VA

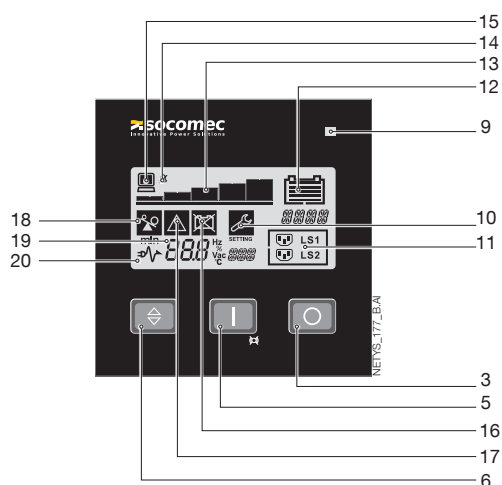
1700 VA - 2200 VA - 3300 VA



5000 VA - 7000 VA + battery

9000 VA - 11000 VA + battery

Control panel



- 1. Yellow LED lit. Operation in bypass mode
- 2. Green LED lit. Mains healthy
- 3. OFF button
- 4. Green LED lit. Normal operation (inverter in-line)
- 5. ON/TEST and buzzer override button
- 6. Navigator button
- 7. Alphanumeric LCD display
- 8. Green LED lit. Status of the load
- 9. Load status
- 10. Configuration
- 11. Programmable outlets
- 12. Battery status
- 13. Load level (5 steps)
- 14. Buzzer off
- 15. Load present
- 16. Battery fault / Replace the battery
- 17. General alarm
- 18. Overload
- 19. Input and output values
- 20. Normal mode / Battery mode (flashing)

NETYS RT Hot-Swap

NETYS RT hot-swap models: 7000 VA (4U rack) and 11000 VA (5U rack).

The plug-in manual bypass, available for NETYS RT hot-swap models, allows the easy replacement of the UPS without powering down critical systems during maintenance operations.

Power Distribution Unit with 10 A and 16 A IEC multiple sockets.
Load segment control function to prioritise the supply of the most critical loads.

Front access hot-swap battery pack for a safe and fast replacement.

| NETYS RT Hot-Swap | | |
|------------------------|----------------|----------------|
| Model | NRT3-7000 MPB | NRT3-11000 MPB |
| Sn | 7000 VA | 11000 VA |
| Pn | 6000 W | 10000 W |
| Plug-in manual bypass | • | • |
| Hot-swap battery packs | • | • |
| UPS size (W x D x H) | 178x665x440 mm | 220x750x440 mm |
| UPS size RACK | 4U | 5U |
| UPS weight | 54 kg | 85 kg |



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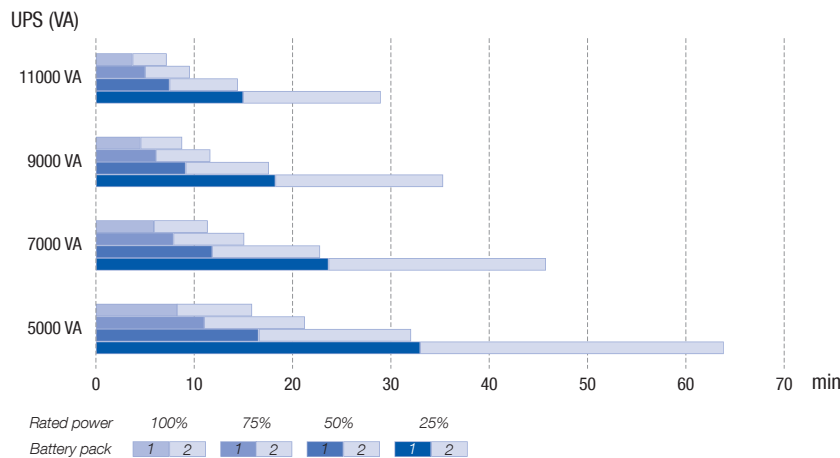
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NETYS RT - Li-Ion battery UPS

The Li-Ion Battery solution, available for NETYS RT 5000-11000 VA, provides higher back-up power density and much longer battery life than traditional lead-acid batteries. The Li-Ion Battery solution is equipped with an embedded interactive BMS (Battery Monitoring System) that provides accurate and individual cell monitoring and coordinates the recharging profile with the UPS to maximise the back-up power availability.



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