NETYS RT
Total protection on rack or tower
from 1100 to 11000 VA

Simple to install
- IEC input and output connections (1100-3000 VA) or terminal input and output connections with built-in magneto-thermal input switch (5000-11000 VA).
- Compact footprint for installation in rack cabinets.
- Attractive design.

Easy to use
- No configuration necessary on first startup.
- Wide range of communication protocols for integration into LAN networks or Building Management Systems (BMS).
- Clear LED interface with buzzers that immediately indicate the operating status of the UPS, even for less specialist users (1100-3000 VA).
- LCD display with menu available in 6 languages (5000-11000 VA).

Meets practical needs
- 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.
- Modular battery extension (EBM) to meet all back-up time requirements, even after installation.
- Possibility of 1+1 parallel redundant configuration to maximise the availability of critical utilities, even in the event of a module breakdown (5000-11000 VA).

The solution for
- Switching
- Storage
- Servers and networking devices
- VoIP communication systems
- Structured cabling systems
- Control systems
- Video surveillance systems

Technology
- VFI “online double conversion”

Certifications
- RoHS
- CE, TÜV-GS, RCM (E2376)

Advantages
- Total protection on rack or tower
- Easy to use
- Simple to install
- Meets practical needs
**Standard electrical features**

- Built-in backfeed protection.
- Protection against atmospheric phenomena (NTF) for telephone / ADSL modems.
- RJ11 connection for Emergency Power Off (EPO).
- Connection for battery extension modules.
- Port for parallel operation (5000-11000 VA).

**Electrical options**

- 1+1 parallel module (5000-11000 VA).
- Manual bypass without interruption (5000-11000 VA).
- Battery extension modules.

**Standard communication features**

- LOCAL VIEW: ideal UPS monitoring and shutdown point-to-point solution for Windows®, Linux and Mac OS X® operating systems.
- HID: UPS management based on Windows® and Mac OS X® embedded service - USB interface (1100-3000 VA).
- MODBUS RTU (RS232).
- RT-VISION: professional WEB/SNMP interface for UPS monitoring and shutdown management of several operating systems (5000-11000 VA).

**Technical data**

<table>
<thead>
<tr>
<th>Sn</th>
<th>1100 VA</th>
<th>1700 VA</th>
<th>2200 VA</th>
<th>3000 VA</th>
<th>5000 VA</th>
<th>7000 VA</th>
<th>9000 VA</th>
<th>11000 VA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pn</td>
<td>800 W</td>
<td>1200 W</td>
<td>1600 W</td>
<td>2100 W</td>
<td>4500 W</td>
<td>5400 W</td>
<td>7200 W</td>
<td>9000 W</td>
</tr>
</tbody>
</table>

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**NETYS RT**

**Features**

- Single-phase UPS
- 6 languages (5000‑11000 VA).
- (1100‑3000 VA).

**From 1100 to 11000 VA**

**Technical data**

<table>
<thead>
<tr>
<th>Voltage</th>
<th>230 V (1ph) selectable 200 / 220 / 240 V - 50 or 60 Hz + / - 2 % (+ / - 0.05 Hz in battery mode)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Efficiency</td>
<td>up to 91% online mode up to 92% online mode</td>
</tr>
<tr>
<td>Overload capability</td>
<td>up to 105% continuously; 125% x 3 min; 150% x 30 sec up to 105% continuously; 125% x 5 min; 150% x 30 sec</td>
</tr>
<tr>
<td>Battery</td>
<td>Standard autonomy* 8 12 8 10 8 6 8 6</td>
</tr>
<tr>
<td>Voltage</td>
<td>24 Vdc 48 Vdc 48 Vdc 72 Vdc 192 Vdc 192 Vdc 240 Vdc 240 Vdc</td>
</tr>
<tr>
<td>Recharge time</td>
<td>&lt; 6 hr to recover 90% capacity &lt; 6 hr to recover 90% capacity</td>
</tr>
</tbody>
</table>

**COMMUNICATION**

<table>
<thead>
<tr>
<th>Mimic panel</th>
<th>LED</th>
<th>LCD 6 languages</th>
</tr>
</thead>
</table>

**RS232 MODBUS protocol**

- * | * | * | * | * | * | * | * | * |

**USB HID protocol**

- * | * | * | * | * | - | - | - | - |

**WEB/SNMP (Ethernet RJ45 port)**

- option | option | option | option | option | option | option | option | option |

**COMM slot**

- * | * | * | * | * | * | * | * | * |

**Dry contacts card**

- option | option | option | option | option | option | option | option | option |

**EPO input (RJ11 port)**

- * | * | * | * | * | * | * | * | * |

**Modem/ADSL surge protection**

- * | * | * | * | * | * | * | * | * |

**Parallel port**

- * | * | * | * | * | * | * | * | * |

**STANDARDS**

- Performance & topology |
- Safety /EMC |
- Product declaration |
- IP rating |
- ENVIRONMENT |
- Operating ambient temperature from 0 °C to +40 °C (from 15 °C to 25 °C for best battery life) |
- Storage temperature range from -15 °C to +50 °C (from 15 °C to 25 °C for best battery life) |
- Relative Humidity 0-90% non-condensing |
- Noise level (ISO 3746) < 45 dBA |
- < 55 dBA |

**DIMENSIONS & WEIGHT**

| UPS size std (W x D x H) | 88.7 x 332 x 440 mm |
| UPS size RACK | 2U |
| UPS weight std | 13 kg |
| EBM module size (W x D x H) | 88.7 x 332 x 440 mm |
| EBM module RACK | 2U |
| EBM module weight | 16 kg |

* 75% of nominal load.
### Connections

**NETYS 066 A**
- 5000 VA - 7000 VA + battery

**NETYS 076 A**
- 1100 VA
- Output sockets (IEC 320 - 10 A)
- Input protection
- USB port
- RS232 interface (MODBUS protocol)
- EPO (Emergency Power Off) input
- Telephone / modem line protection
- Output socket (full power)
- Fan
- Mains input socket (IEC 320)

**NETYS 067 A**
- 1100‑3000 VA - Battery extension

**NETYS 077 A**
- UPS + 2 EBM
- UPS + 1 EBM (standard)
- UPS
- UPS + 2 EBM
- UPS + 1 EBM
- UPS

**NETYS RT**
- Parallel redundant operation
- Available with integrated C3PRO expansion module
- Redundant operation (1+1)
- 1:1 redundancy
- Modules above 3 kVA can be configured for parallel operation
- To achieve the highest level of availability requiring high levels of autonomy.
- Extremely useful in the case of applications where it is possible to select between operation with or without battery extension.
- To further streamline the solution, it is also possible to set up at a later date, simply by using two UPS modules and a collector / manual bypass module which simplifies cabling and maintenance of the UPS installation.
- Redundant operation (1+1) means: the UPS system incorporates one more UPS module than is needed to protect the load; in the event of a breakdown, it guarantees sufficient availability is much higher than a conventional UPS system using similar technology.

| 10: Battery extension connector |
| 11: Slot for optional communication boards |
| 12: Battery extension connector |
| 13: Output terminals |
| 14: Input terminals |
| 15: Input switch |
| 16: RJ45 LAN ethernet connector |
| 17: Parallel port connector |

### Converting from Tower to Rack Mounted

Extends the usability and flexibility of the NETYS RT range and makes it suitable for any type of installation. Converts from Tower to Rack mounted.

1. Mains input socket (IEC 320)
2. Fan
3. Output socket (full power)
4. Telephone / modem line protection
5. EPO (Emergency Power Off) input
6. RS232 interface (MODBUS protocol)
7. USB port
8. Input protection
9. Output sockets (IEC 320 - 10 A)
NETYS RT 1100-3000 VA - Battery extension

Parallel redundant operation for business continuity

To achieve the highest level of availability and to power critical utilities, NETYS RT UPS modules above 3 kVA can be configured for 1:1 redundancy. Redundant operation (1+1) means: the system incorporates one more UPS module than is needed to protect the load; in the event of a breakdown, it guarantees sufficient power supply capacity to the load by maintaining online protection. Parallel technology is based on the principle of load sharing, whereby both units are always kept active. In a redundant configuration, overall system availability is much higher than a conventional UPS system using similar technology. 1+1 redundant configuration does not require additional circuits and can therefore be set up at a later date, simply by using two UPS modules and a collector / manual bypass module which simplifies cabling and maintenance of the UPS installation.

To further streamline the solution, it is also possible to select between operation with separate battery or shared battery, which is extremely useful in the case of applications requiring high levels of autonomy.

NETYS RT 5000-11000 VA - Battery extension

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. LED bar. Depending on the situation, this indicates either the charge level or the capacity of the battery
7. Navigator buttons
8. Alphanumeric LCD display
9. Green LED lit. Status of the load

1000 VA - 1700 VA - 2200 VA - 3000 VA
5000 VA - 7000 VA - 9000 VA - 11000 VA