

High protection and high availability

- The **ITYS** series is a range of compact UPS systems available in the following models: 1, 2, 3, 6 and 10 kVA with on-line double conversion technology (VFI) and sinusoidal absorption.
- **ITYS** guarantees permanent regulation of output voltage and frequency. This technology is compatible with all IT and industrial applications, operating environments and when used in conjunction with a generator set.
- The wide tolerance of the input voltage limits the number of switchovers to battery mode, thus significantly prolonging the battery life.
- The automatic bypass takes over immediately in the event of overloads or faults, ensuring continuous power supply to the loads.

Simple to install and easy to use

- The UPS comes ready for power up with the internal batteries connected and fully charged. The auto restart function assures automatic restart even in the event of prolonged power failure.
- **ITYS** UPS systems are easy to install requiring no special plant preparation as they have built-in magneto-thermal protection.
- The intuitive LED command/control panel and buzzer make the system easy to use. The power distribution graphic display shows at-a-glance if the system is working correctly or not. Battery health can be checked either via the control panel or using a remote PC.

Operating efficiency and versatility

- The versatility of these models means that they can be used to protect a wide range of applications: from professional IT systems, corporate networks and critical devices in industrial contexts.
- The standard configuration and the communications accessories can easily be adapted to a wide range of operating environments.
- The manual bypass means that on site periodic and/or emergency maintenance can be performed on the 6 and 10 kVA models without having to disconnect the loads. The communication software can be used to program scheduled start-up and shutdown where automatic power management procedures are required.

Communication option

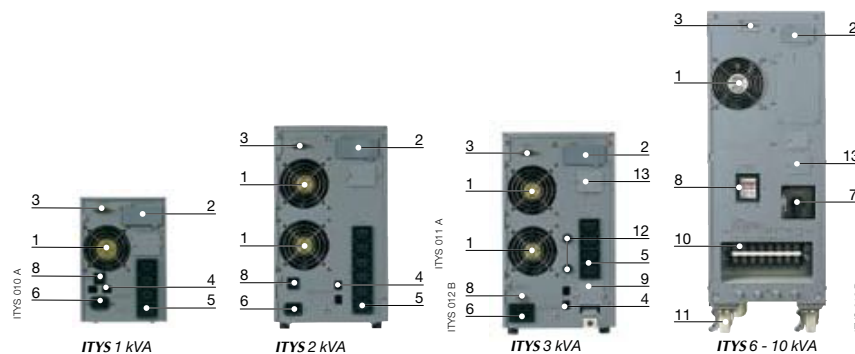
- Dry contacts interface for insertion in the rear slot shows the status of the UPS via 5 potential-free contacts and provides an input for remote emergency power off (EPO).
- **UNI VISION** software for the control and automatic shutdown of applications connected to Windows™ and Linux. Free download from our website: www.socomec.com.
- **UNI VISION PRO** software for management of connected applications and to control automatic shutdowns. Serial cable included.
- **NET VISION** Interface SNMP/WEB manager for connection of the UPS to the Ethernet network. This accessory can be integrated in the UPS by means of the slot located on the back panel.



- Your protection for
- > Professional workstations
 - > Server and corporate networks
 - > Storage systems
 - > Industrial automation
 - > Security systems
 - > Telecom systems

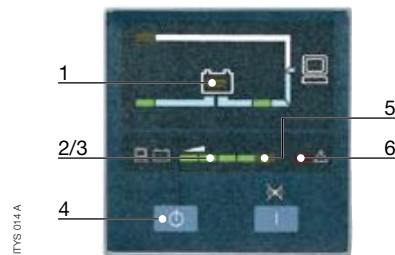


Connection



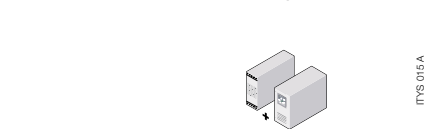
1. Fan
2. Slot for optional communication boards
3. RS232 serial port (JBUS protocol)
4. Telephone/modem/ASDL line protection
5. Output sockets (IEC 320)
6. Input socket (IEC 320)
7. Manual by pass
8. Input protection (Thermal breaker)
9. Output terminals
10. Input/output terminals
11. Wheels with security lock
12. Selective protection fuse on output sockets
13. Connection for external battery cabinet (LB models only)

The command/control panel



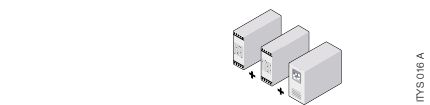
- Graphic operating status:
1. Battery indicator
 2. LED bar - % of connected load
 3. LED bar - % battery available
 4. On/off button and deactivation of the buzzer
 5. Overload indicator
 6. Fault indicator

Battery extension (available with LB models only)



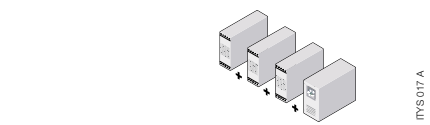
ITYS	UPS +1 EBM
3000	30 min. +1 (ITY-EX030B)
6000	50 min. +1 (ITY-EX0100B)
10000	27 min. +1 (ITY-EX0100B)

(@ 75% of nominal load)



ITYS	UPS +2 EBM
3000	75 min. +2 (ITY-EX030B)
6000	100 min. +2 (ITY-EX0100B)
10000	58 min. +2 (ITY-EX0100B)

(@ 75% of nominal load)



ITYS	UPS +3 EBM
3000	120 min. +3 (ITY-EX030B)
6000	150 min. +3 (ITY-EX0100B)
10000	90 min. +3 (ITY-EX0100B)

(@ 75% of nominal load)

Technical data

POWER VA/WATT	1000 VA/700 W	2000 VA/1400 W	3000 VA/2100 W	6000 VA/4200 W	10000 VA/7000 W
ITEM CODE	ITY-TW010B	ITY-TW020B	ITY-TW030B/LB	ITY-TW060B/LB	ITY-TW100B/LB
INPUT					
Input voltage	230 V AC (160÷300 V AC; up to 110 V AC at 60% of the load)			230 V AC (176÷276 V AC)	
Frequency	50/60 Hz nominal				
Power factor	0.98				
OUTPUT					
Output voltage (Vout)	230 V AC (can be set to 220/240 V AC) ± 1.5%			230 V AC (can be set to 220/240 V AC) ± 1%	
Output frequency stability (for 50 Hz)	Syncro range 46÷54 Hz (50 ± 0.2 Hz in battery mode)			Syncro range 46÷54 Hz (50 Hz ± 0.05 Hz in battery mode)	
Overload (with mains present)	Up to 150% for 30 seconds			Up to 130% for 10 minutes	
Global efficiency	Up to 90%				
Acceptable crest factor	3:1				
Communication port	RS 232 on DB9 connector				
BACK UP TIME*					
75% of the nominal load (min.)	10	17	9	13	9
PHYSICAL					
Noise level (at 1 m)	45 dB			55 dB	
UPS dimensions W x D x H (mm)	145 x 400 x 220	192 x 460 x 350		260 x 570 x 715	
Colour (Pantone scale)	Case 430C; plastic panel 431C				
UPS net weights (kg)	14	34	35/16	84/35	93/38
COMPLIANCE WITH STANDARDS					
Standards	EN62040 and CE marking/IEC 60529 (IP20)				
Safety/EMC standard	(EN) IEC 62040-1-1 (safety) EN50091-2/IEC62040-2 (EMC) - Equipped with input filters to eliminate atmospheric disturbance				

* at 25 °C with efficient battery.

Single-phase
UPS

NETYS RT

from 5000 to 11000 VA

The professional UPS system for high power density,
high availability and complete integration

Simple to install

- Terminal input and output connections with built-in input protection by means of magnetothermal switch.
- Compact footprint: 4U (178 mm) for 5-7 kVA and 6U (267 mm) for 9-11 kVA, for installation in rack cabinets.
- Optional manual bypass enables routine maintenance to be performed without disconnecting the powered appliance.
- Built-in LAN interface for remote monitoring via Web browser or SNMP protocol

Easy to use

- LCD display with menu available in 6 languages
- Extensive range of communication protocols (including TCP/IP and SNMP) for integration in building management system (BMS) networks.

Meets practical needs

- Online double conversion technology with sinusoidal waveform, to completely filter out all disturbances from/to the mains power supply and to ensure 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.

Standard communication features

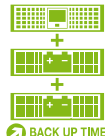
- 10/100 LAN Ethernet connection.
- WEB/SNMP manager interface for connecting the UPS system to the Ethernet network.
- RS 232 serial connection with JBUS protocol.

Standard electrical equipment

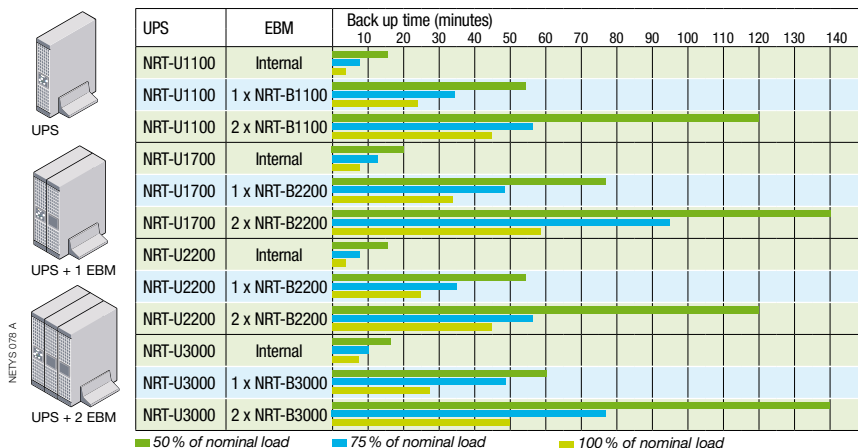
- Built-in backfeed protection.
- RJ11 connection for Emergency Power Off (EPO).
- Connection for battery extension modules.
- Port for parallel operation.

Communication options

- Programmable dry-contact interface.



Battery expansion

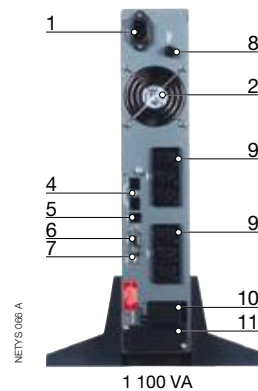


Technical data

	NETYS RT 1100	NETYS RT 1700	NETYS RT 2200	NETYS RT 3000
MODELS	NRT-U1100	NRT-U1700	NRT-U2200	NRT-U3000
POWER	1100 VA/800 W	1700 VA/1200 W	2200 VA/1600 W	3000 VA/2100 W
Architecture	online double conversion VFI with input PFC and automatic bypass			
INPUT				
Voltage	230 V (1ph) 160–275 Vac; up to 130 Vac @70% load			
Frequency	50/60 Hz +/-10% (Auto-Selectable)			
Power factor/THDi	> 0.98/< 6%			
OUTPUT				
Voltage (pure sinewave)	230 V (1ph) selectable 200/208/220/240V, 50 or 60 Hz +/- 2% (+/- 0.05 Hz in battery mode)			
Efficiency	up to 91% online mode			
Overload capability	up to 105% continuously; 125% x 3 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-C20 (16 A)		
BATTERY				
Standard autonomy*	8	12	8	10
Voltage	24 Vdc	48 Vdc	48 Vdc	72 Vdc
Recharge time	< 6h to recover 90% capacity			
COMMUNICATION				
Mimic panel	LED			
RS232 (DB9 port) Jbus protocol	•	•	•	•
USB HID protocol	•	•	•	•
WEB/SNMP (Ethernet RJ45 port)	option	option	option	option
COMM slot	•	•	•	•
Dry contacts card	option	option	option	option
EPO input (RJ11 port)	•	•	•	•
Modem/ADSL surge protection	•	•	•	•
Parallel port	-	-	-	-
STANDARDS				
Performance & topology	IEC 62040-3 (VFI-SS-111)			
Safety/EMC	IEC 62040-1-1 (TUV-GS certified) IEC 62040-2			
Product certifications	CE, TÜV-GS, A-Tick, C-Tick			
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 dB			< 55 dB
DIMENSIONS & WEIGHT				
UPS size std BUT (W x D x H mm)	440x332x88.7	440x430x88.7	440x430x88.7	440x608x88.7
UPS size RACK U	2U	2U	2U	2U
UPS weight std BUT (kg)	13	21	22	31
EBM module size (W x D x H mm)	440x332x88.7	440x430x88.7	440x430x88.7	440x608x88.7
EBM module RACK U	2U	2U	2U	2U
EBM module weight (kg)	16	29	29	43

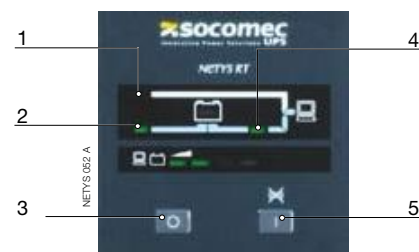
* @ 75% of nominal load.

Connections



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 (JBUS protocol)
7. USB port
8. Input protection
9. Output sockets (IEC 320 - 10 A)
10. Battery extension connector
11. Slot for optional communication boards

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