



ITYS

Reliable and versatile power protection
from 1 to 10 kVA

Single-phase UPS



High protection and availability

- True online double conversion technology (VFI) assures high availability and total load protection.
- Constant output voltage and frequency regulation makes ITYS compatible with different applications, operating environments and generator sets.
- Automatic bypass supplies the loads in the event of overloads or faults.

Robust and versatile

- Compact tower UPS system saves space in the operating environment.
- No particular configuration on first startup.
- Easy connections via IEC 320 sockets or terminals.
- Wide input voltage tolerance limits the switchovers to battery mode prolonging the battery life.
- Manual bypass for periodic or emergency maintenance.

Wide battery configurability

- Flexible battery management available for all ITYS models to ensure power supply continuity in the event of an outage.
- Modular battery extension meets a wide variety of power back-up times according to the load to be supplied.
- Modular battery extension enables limitless increases in autonomy, even after installation.
- Powerful battery charger models guarantee constant and reliable operation using external high capacity batteries, therefore providing supply continuity during long outages.

The solution for

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

Technology

- > VFI "online double conversion"

Certifications



Autonomy configurations (1/1 models)

> Flexible autonomy



UPS with
internal batteries
(standard model)

+



Modular battery
extension with
1 or 2 strings

> Extendable autonomy



UPS without
internal batteries
and with powerful
battery charger

+



N+1 modular
battery extension
with 1 or 2 strings

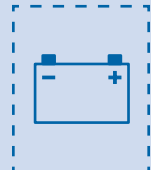


> Long autonomy



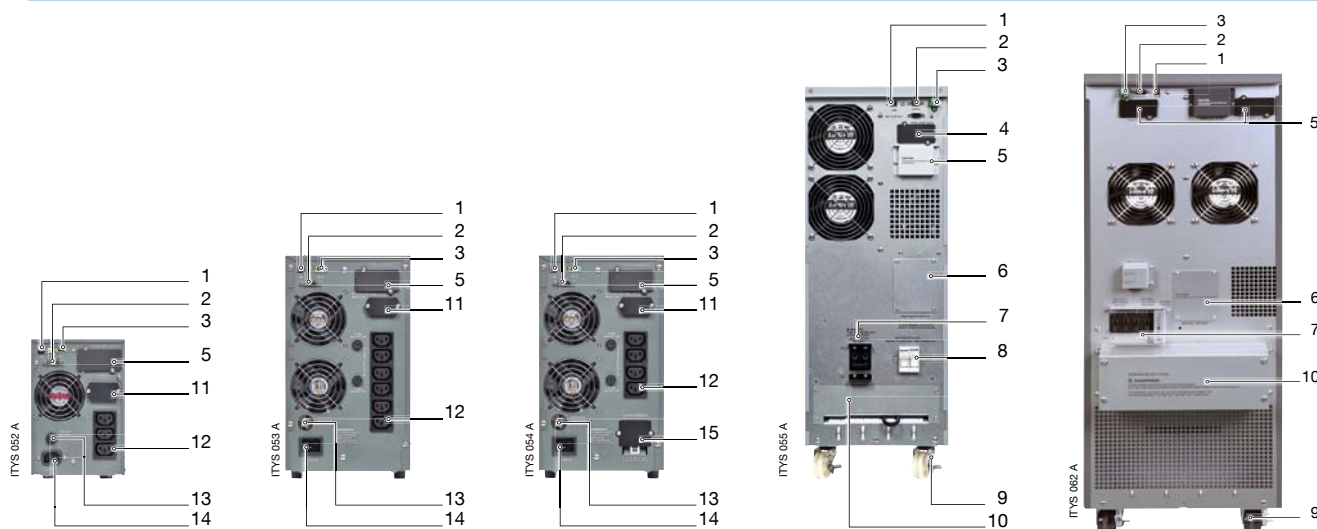
UPS without
internal batteries
and with powerful
battery charger

+



External battery
cabinet

Connections



ITYS 1 kVA

ITYS 2 kVA

ITYS 3 kVA

ITYS 6 - 10 kVA

ITYS 10 kVA - X/1

1. USB serial port
2. RS232 serial port
3. EPO (Emergency Power Off)
4. Dry contact interface (DB9)
5. Slot for optional communication boards⁽¹⁾
6. Manual bypass

7. Input protection (thermal breaker)
8. Battery fuse holder
9. Castor wheel with security lock
10. Input, output and external battery terminal board
11. Connection for modular battery extension

12. Output sockets (IEC 320)
 13. Input protection
 14. Input socket (IEC 320)
 15. Output terminals
- ⁽¹⁾ Dry contact interface or WEB/SNMP network adapter.

Technical data

ITYS - UPS						
Sn	1000 VA	2000 VA	3000 VA	6000 VA	10000 VA	10000 VA
Pn	800 W	1600 W	2400 W	5400 W	9000 W	9000 W
Input/output	1/1					1/1 or 3/1
INPUT						
Rated voltage	230 V (110÷300 V)			230 V (176÷276 V)		400 V (3/1), 230 V (1/1)
Rated frequency	50/60 Hz					50/60 Hz ± 10 %
Power factor	0.98					0.99
OUTPUT						
Rated voltage	208 / 220 / 230 / 240 V (± 2 %)			208 / 220 / 230 / 240 V (± 1 %)		
Rated frequency	50/60 Hz (45÷55 Hz/54÷66 Hz)					
Overload	Up to 150% for 10 seconds			Up to 150% for 1 minute		Up to 150% for 10 seconds
Crest factor	3:1					
Connections	3 x IEC 320 (C13)	6 x IEC 320 (C13)	4 x IEC 320 (C13)+ terminals	terminals		
BATTERIES						
Type	sealed lead-acid maintenance free - expected life 3/5 years					
Voltage	36 V DC	96 V DC		240 V DC		288 V DC
Back-up time ⁽¹⁾⁽²⁾	10 min	17 min	9 min	13 min	9 min	9 min
Battery charger ⁽³⁾	8 A		4 A		-	
COMMUNICATION						
Interfaces	RS232 - USB			RS232 - USB - Dry contact		RS232 - USB
Ethernet adapter	NET VISION (TCP/IP & SNMP) optional card					
Local communication software	Local View					
EFFICIENCY						
Online mode	up to 91 %			up to 94 %		
ENVIRONMENT						
Ambient service temperature	0 °C to +40 °C (15 °C to 25 °C for maximum battery lifetime)					
Relative humidity	< 95 % non-condensing					
Maximum altitude	1000 m without de-rating					
Noise level at 1 m	< 50 dBA			< 55 dBA		
UPS CABINET						
Dimensions W x D x H (mm)	145 x 400 x 220	192 x 460 x 347		260 x 550 x 708		350 x 650 x 890
Weight (models with internal batteries)	13 kg	31 kg		80 kg	84 kg	115 kg
Weight (models without internal batteries)	7 kg	13 kg		25.5 kg	29.5 kg	-
Degree of protection	IP20					
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	CE, RCM (E2376)					

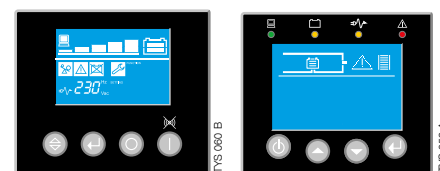
⁽¹⁾ @75 % of rated load (models with internal batteries) PF 0.7

⁽³⁾ Models without batteries

⁽²⁾ Models with internal batteries

Advanced communication

- Wide range of communication protocols available as options (including JBUS, TCP/IP and SNMP) for integration into LAN networks or building management systems (BMS).
- RS232 advanced connection for the management of power supply and local/remote shutdown of the applications with Windows®, Linux and Mac OS X® systems.
- USB port for direct interfacing with Windows® and Mac OS X® systems.
- Clear and uncluttered LCD interface for easy UPS monitoring, even for less specialist users.



ITYS 1-2-3 kVA

ITYS 6-10 kVA

Local and IP network management solutions

- LOCAL VIEW: ideal point-to-point software for UPS monitoring and shutdown of Windows®, Linux and MAC OS X® operating systems (standard for all models).
- NET VISION: professional network adapter for monitoring and controlling UPS units from a remote location (option for all models).