

ITYS

Reliable and versatile power protection
from 1 to 10 kVA

Prime



Robust and easy to install

- Compact tower UPS system saves space in the operating environment.
- Quick and simple installation: no configuration necessary 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.
- Wide operating ambient temperature up to 45°C.
- Single and three-phase input with automatic configuration (8-10 kVA).

High protection and availability

- True online double conversion technology (VFI) assures high availability and total load protection.
- Compatible with different applications, operating environments and generator sets.
- Automatic bypass supplies the loads in the event of overloads or faults.
- Manual bypass for periodic or emergency maintenance.
- Standard Over Voltage Control Device (OVCD) protects the UPS and the load from dangerous mains peak-voltages.

Certified product

- Safety compliance certified by TÜV.
- Performance tested and verified by third independent laboratory.

Wide battery configurability

- Modular battery extension flexibility enables limitless autonomy configuration.
- Hot-swap modular battery extension increases back-up times even after installation according to the load criticality to be supplied.
- Modular battery extension enables models with integrated powerful battery charger:
 - ensure constant and reliable operation using external high capacity batteries.
 - provide power supply continuity during long outages.
 - assure a fast recharging.

The solution for

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

Compliance with standards

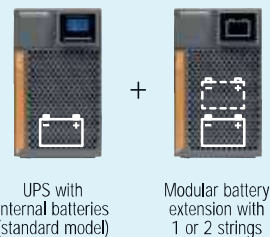
- > IEC 62040-1
- > IEC 62040-2
- > IEC 62040-3

Certifications

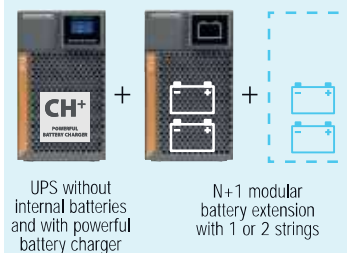


Autonomy configurations (1/1 models)

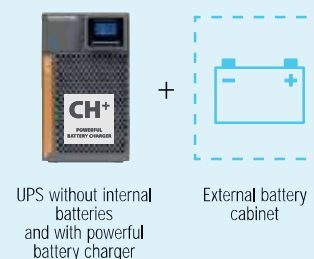
> Flexible autonomy



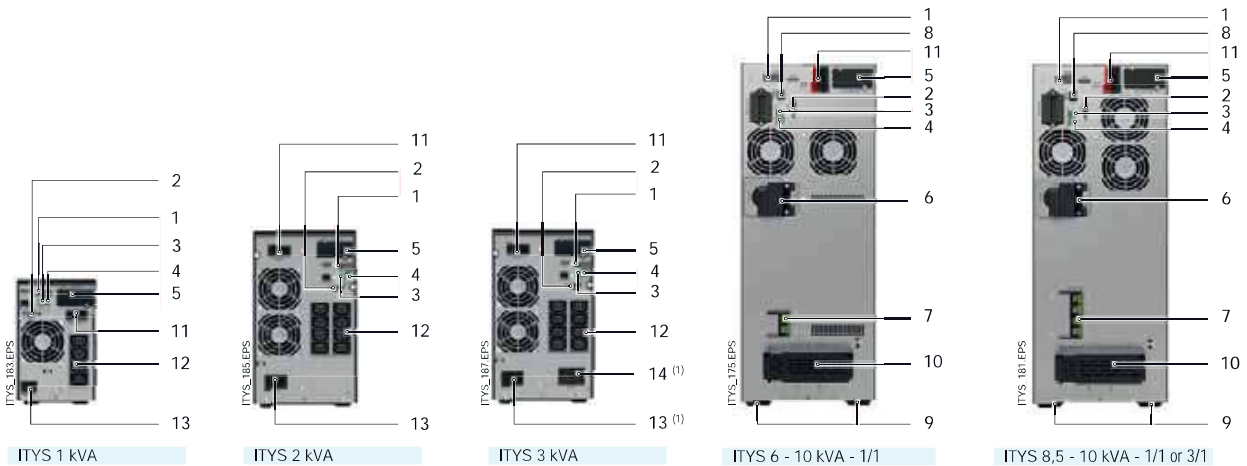
> Extendable autonomy



> Long autonomy



Connections



1. USB serial port
2. RS232 serial port
3. Power off the UPS remotely.
4. Dry contact interface
5. Slot for optional communication boards

6. Manual bypass
7. Input protection (thermal breaker)
8. Battery detection
9. Wheels
10. Input and output terminal board

11. Connection for modular battery extension
12. Output sockets (IEC 320 - C13)
13. Input socket (IEC 320)
14. Output socket (IEC 320 - C19)

(1) Input and output terminal (3 kVA - model without internal batteries)

Technical data

ITYS - UPS							
Model	ITY3-TW010B	ITY3-TW020B	ITY3-TW030B	ITY3-TW060B	ITY3-TW100B	ITY3-TW108B	ITY3-TW110B
Sn	1000 VA	2000 VA	3000 VA	6000 VA	10000 VA	8500 VA	10000 VA
Pn	1000 W	2000 W	3000 W	6000 W	10000 W	8500 W	10000 W
Input/output	1/1					1/1 or 3/1	
INPUT -							
Rated voltage	230 V (1/1) 110÷300 V: (160÷300 V @100% load)			230 V (1/1) 110÷276 V: (160÷276 V @100% load)		400 V (3/1), 230 V (1/1)	
Rated frequency	40-70 Hz (50/60 Hz +/-5% Auto-Selectable)						
Power factor	>0,99						
OUTPUT							
Rated voltage	220 / 230 / 240 V (± 1 %)						
Rated frequency	50/60 Hz (± 0.1 Hz in battery mode)						
Overload	up to 105% continuously; 125% x 3 min: 150% x 30 sec			up to 105% continuously; 125% x 10 min; 150% x 30 sec			
Crest factor	3:1						
Connections	4 x IEC 320 (C13)	8 x IEC 320 (C13)	8 x IEC 320 (C13)+ 1 (C19)	terminals			
BATTERIES							
Type	sealed lead-acid maintenance free - expected life 3 / 5 years						
Voltage	36 V DC	72 V DC		192 V DC			
Back-up time ⁽¹⁾⁽²⁾	12 min	16 min	9 min	11 min	7 min	9 min	7 min
Battery charger ⁽³⁾	8 A			12 A			
COMMUNICATION							
Interfaces	RS232 - USB - Dry contact						
Ethernet adapter	NET VISION (TCP / IP & SNMP) optional card						
Local communication software	Local View						
EFFICIENCY							
Online mode	up to 93 %			up to 95 %			
ENVIRONMENT							
Ambient service temperature	from 0 °C to +40 °C (up to 45 °C ⁽⁴⁾)						
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 404 x 224	192 x 428 x 322		225 x 416 x 589			
Weight (models with internal batteries)	14,4 kg	26 kg		53 kg	61 kg	58 kg	61 kg
Weight (models without internal batteries)	8 kg	11 kg		13,5 kg	15,8 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
(2) Models with internal batteries

(3) Models without batteries
(4) Conditions apply.

Standard communication features

- 1 slot for communication options.
- USB port for UPS management based on HID protocol.
- MODBUS RTU (RS232).
- LOCAL VIEW software for local UPS monitoring and shutdown for Windows, Linux and MAC Osx.
- Clear and uncluttered LCD interface for easy UPS monitoring, even for less specialist users.



System features

- Embedded dry-contact interface.
- Input mains switch breaker.
- Connection for battery extension modules.
- Power off the UPS remotely.
- Internal temperature sensor.

Communication options

- Dry-contact card.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- Environmental Monitoring Device (EMD).
- REMOTE VIEW PRO supervision software.