

# 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

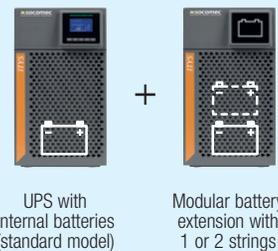
- > IEC 62040-1
- > IEC 62040-2
- > IEC 62040-3

## Certifications

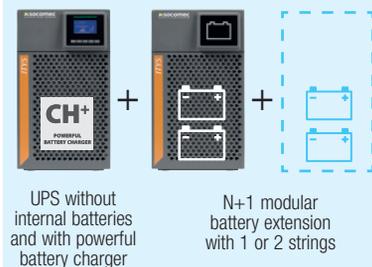


## Autonomy configurations (1/1 models)

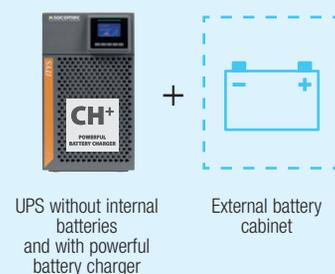
### > Flexible autonomy



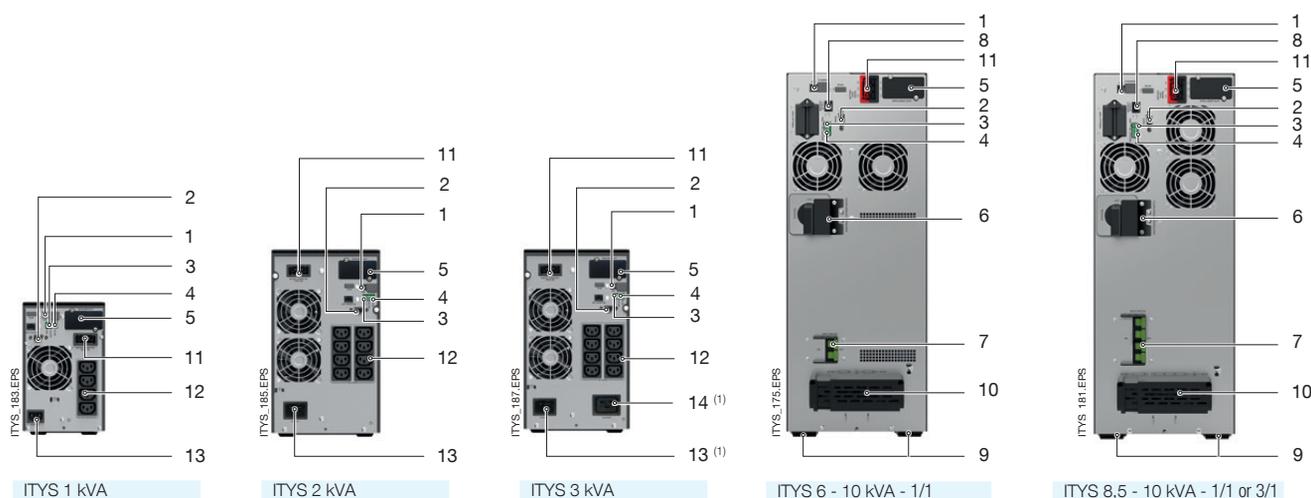
### > Extendable autonomy



### > 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 <sup>(1)(2)</sup>	12 min	16 min	9 min	11 min	7 min	9 min	7 min	
Battery charger <sup>(3)</sup>	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 <sup>(4)</sup> )							
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, RoHS (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.