

ITYS

Reliable and versatile power protection
from 1 to 10 kVA

Prime



Strong points

- > Robust and easy to install
- > High protection and availability
- > Certified product
- > Wide battery configurability

Conformity to standards

- > IEC 62040-1
- > IEC 62040-2
- > IEC 62040-3
- > RCM (E2376)

Certifications and attestations



Function

Compact tower UPS system saves space in the operating environment.

Advantages

Robust and easy to install

- 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

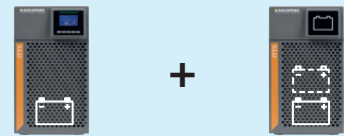
- Safety compliance certified by TÜV.
- Performance tested and verified by third independent laboratory.

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 and assure a fast recharging.

Autonomy configurations (1/1 models)

> Flexible autonomy



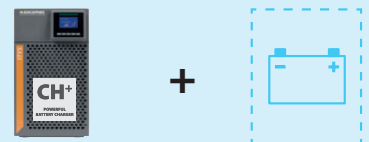
UPS with internal batteries (standard model) + Modular battery extension with 1 or 2 strings

> Extendable autonomy





UPS without internal batteries and with powerful battery charger + N+1 modular battery extension with 1 or 2 strings

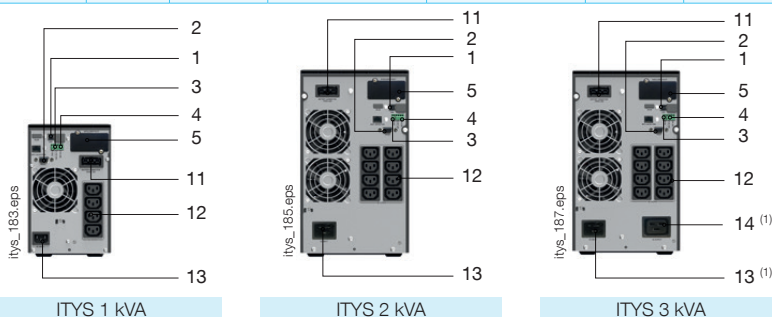
> Long autonomy



UPS without internal batteries and with powerful battery charger + External battery cabinet

Connections

		Output Connections				
		1 kVA	2 kVA	3 kVA	6 kVA	10 kVA
IEC Standard		4x (C13)	8x	8x (C13) + 1x (C19)	terminals	terminals
AU Standard		2x	4x + 1x IEC (C19)	4x + 1x IEC (C19)	terminals	terminals



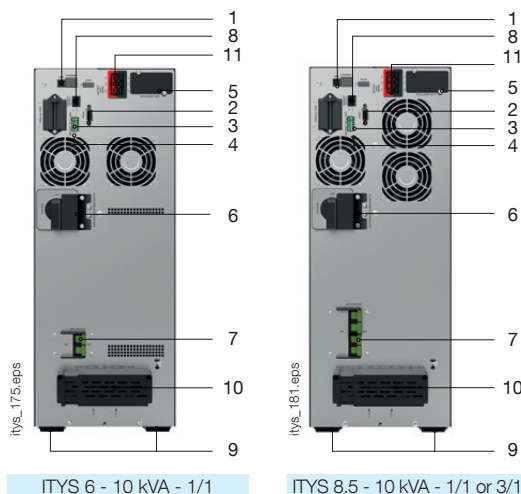
ITYS 1 kVA

ITYS 2 kVA

ITYS 3 kVA

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 switch
8. Battery detection
9. Wheels
10. Input and output terminal board



ITYS 6 - 10 kVA - 1/1

ITYS 8.5 - 10 kVA - 1/1 or 3/1

11. Connection for modular battery extension
 12. Output sockets
 13. Input socket
 14. Output socket
- (1) Input and output terminal (3 kVA-model without internal batteries)

Technical data

		ITYS - UPS						
Model	IEC standard	ITY3-TW010B	ITY3-TW020B	ITY3-TW030B	ITY3-TW060B	ITY3-TW100B	ITY3-TW108B	ITY3-TW110B
	AU standard	ITY3-TW010B-AU	ITY3-TW020B-AU	ITY3-TW030B-AU				
Sn/Pn		1000 VA/W	2000 VA/W	3000 VA/W	6000 VA/W	10000 VA/W	8500 VA/W	10000 VA/W
Input/output		1/1						
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						
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⁾		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 ⁽²⁾		14.4 kg	26 kg	53 kg	61 kg	58 kg	61 kg	
Weight ⁽³⁾		8 kg	11 kg	13.5 kg	15.8 kg			
Degree of protection		IP20						
EXTERNAL BATTERY MODULE (EBM)								
EBM size (W x D x H)		145x404x224	192x428x322	225x416x589				
EBM 1 string (kg)		11	23.3	55.2				
EBM 2 strings (kg)		17.3	38.3	95.2				
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), UKCA						

(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.



General characteristics

- 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.