

ITYS

Reliable and versatile power protection
from 1 to 10 kVA

Prime



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.

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



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

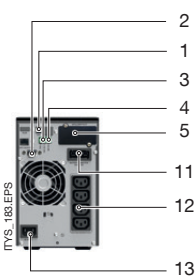
> Long autonomy



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

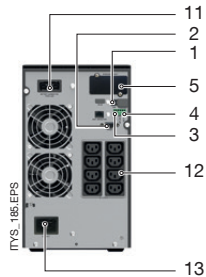
Connections

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



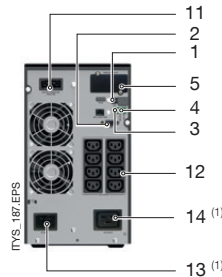
ITYS 1 kVA

1. USB serial port
2. RS232 serial port
3. Power off the UPS remotely.



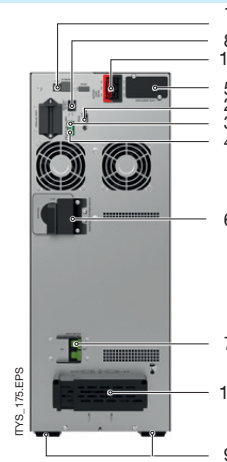
ITYS 2 kVA

4. Dry contact interface
5. Slot for optional communication boards
6. Manual bypass



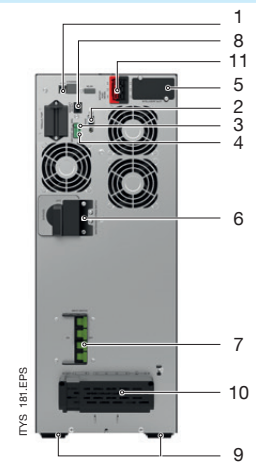
ITYS 3 kVA

7. Input protection (thermal breaker)
8. Battery detection
9. Wheels



ITYS 6 - 10 kVA - 1/1

10. Input and output terminal board
11. Connection for modular battery extension



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

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				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							
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 ⁽²⁾		14.4 kg		26 kg		53 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, RCM (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.