

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 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



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

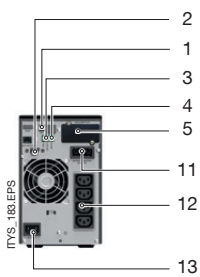


UPS without internal batteries and with powerful battery charger

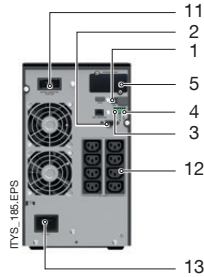
External battery cabinet

Connections

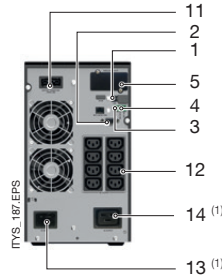
		Output Connections				
		1 kVA	2 kVA	3 kVA	6 kVA	10 kVA
IEC Standard		4x (C13)	8x	8x (C13) + 1x (C19)	terminals	terminals
AU Standard		2x	4x + 1x IEC (C19)	4x + 1x IEC (C19)	terminals	terminals



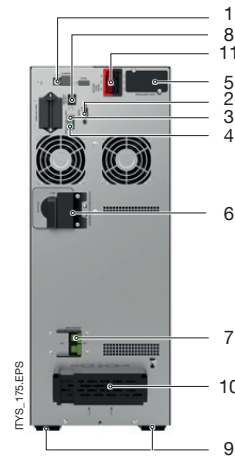
ITYS 1 kVA



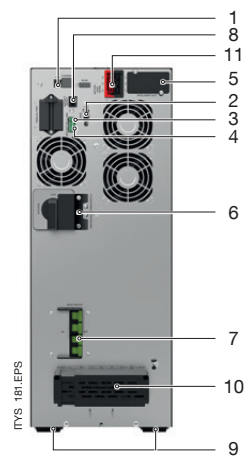
ITYS 2 kVA



ITYS 3 kVA



ITYS 6 - 10 kVA - 1/1



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

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
 13. Input socket
 14. Output socket
- (1) Input and output terminal (3 kVA - model without internal batteries)

Technical data

		ITYS - UPS							
Model	IEC standard AU standard	ITY3-TW010B	ITY3-TW020B	ITY3-TW030B	ITY3-TW060B	ITY3-TW100B	ITY3-TW108B	ITY3-TW110B	
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	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, 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.



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.