



### 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 and attestations



### Autonomy configurations (1/1 models)

#### > Flexible autonomy



UPS with internal batteries (standard model)

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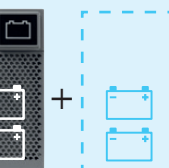


Modular battery extension with 1 or 2 strings

#### > 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

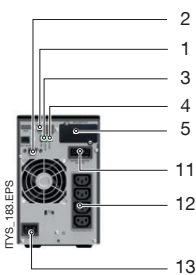
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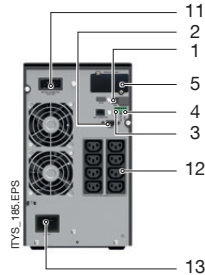
External battery cabinet

## Connections

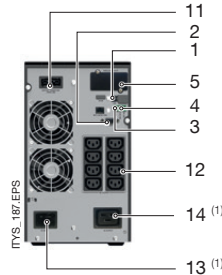
|              |  | Output Connections |                   |                     |           |           |
|--------------|--|--------------------|-------------------|---------------------|-----------|-----------|
| IEC Standard |  | 1 kVA              | 2 kVA             | 3 kVA               | 6 kVA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



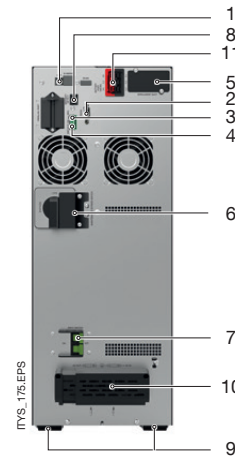
ITYS 1 kVA



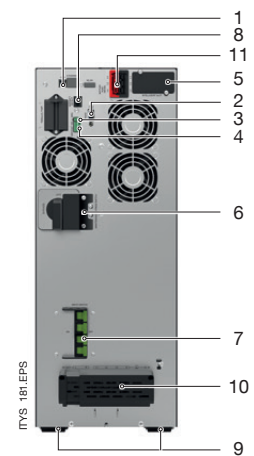
ITYS 2 kVA



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<br>AU standard | ITY3-TW010B<br>ITY3-TW010B-AU                                      | ITY3-TW020B<br>ITY3-TW020B-AU | ITY3-TW030B<br>ITY3-TW030B-AU | 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<br>INPUT          |                             | 1/1                                                                |                               |                               |                                                          |             | 1/1 or 3/1               |             |  |
| Rated voltage                  |                             | 230 V (1/1)<br>110÷300 V; (160÷300 V @100% load)                   |                               |                               | 230 V (1/1)<br>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;<br>150% x 30 sec            |                               |                               | up to 105% continuously; 125% x 10 min;<br>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 <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 <sup>(2)</sup>          |                             | 14.4 kg                                                            | 26 kg                         |                               | 53 kg                                                    | 61 kg       | 58 kg                    | 61 kg       |  |
| Weight <sup>(3)</sup>          |                             | 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.