

# ITYS

Reliable and versatile power protection  
from 1 to 10 kVA



## 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)

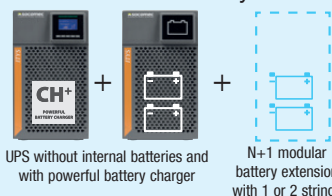
### > Flexible autonomy



UPS with internal batteries (standard model)

Modular battery extension with 1 or 2 strings

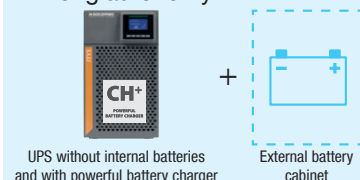
### > Extendable autonomy



UPS without internal batteries and with powerful battery charger

N+1 modular battery extension with 1 or 2 strings

### > Long autonomy

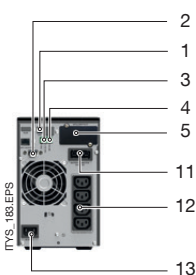


UPS without internal batteries and with powerful battery charger

External battery cabinet

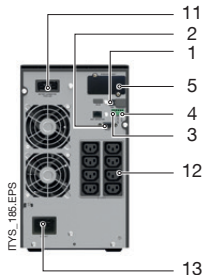
## Connections

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



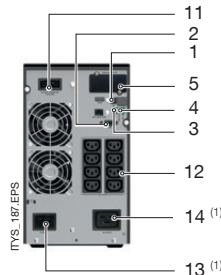
ITYS 1 kVA

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



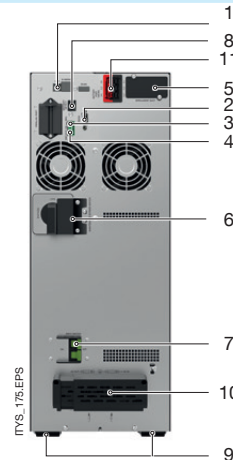
ITYS 2 kVA

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



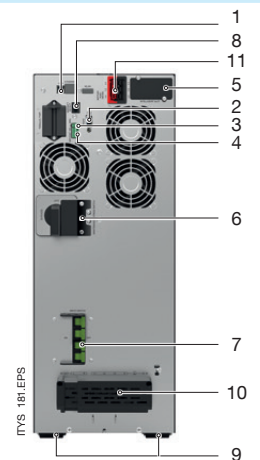
ITYS 3 kVA

7. Input switch
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<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.



## 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.