ITYS

Reliable and versatile power protection

from 1 to 10 kVA



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 IEC 320 sockets or
- 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





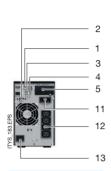


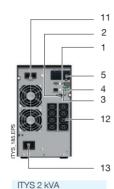


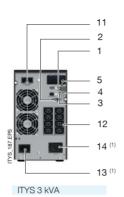
External battery

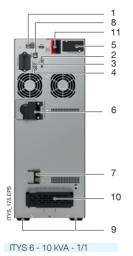


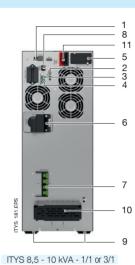
Connections











ITYS 1 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 protection (thermal breaker)
 - 8. Battery detection
 - 9. Wheels
 - 10. Input and output terminal board
- 11. Connection for modular battery extension
- 12. Output sockets (IEC 320 C13)
- 13. Input socket (IEC 320)
- 14. Output socket (IEC 320 C19)
- (1) Input and output terminal (3 kVA model without internal batteries)

Technical data

Model ITY3-TW010B ITY3-TW020B ITY3-TW030B ITY3-TW060B ITY3-TW100B ITY3-TW100B ITY3-TW110B		ITYS - UPS						
Pn	Model	ITY3-TW010B	ITY3-TW020B	ITY3-TW030B			ITY3-TW108B	ITY3-TW110E
Input/output INPUT	Sn	1000 VA	2000 VA	3000 VA	6000 VA	10000 VA	8500 VA	10000 VA
NPUT Rated voltage	Pn	1000 W	2000 W	3000 W	6000 W	10000 W	8500 W	10000 W
Rated voltage	Input/output			1/1			1/1 0	r 3/1
Rated voltage 230 V (1/1) 400 V (3/1), 230 V (1/1) 110±276 V; (160±276 V @100% load) 110±276								
Rated frequency Power factor OUTPUT Rated voltage Rated frequency Power factor OUTPUT Rated voltage Rated frequency Overload Overload Value Case Connections Value Voltage BATTERIES Type Sealed lead-acid maintenance free - expected life 3 / 5 years Voltage Back-up time ^{11/20} Battery charger ¹⁶ COMMUNICATION Interfaces Ethernet adapter Local communication software EFFICIENCY Online mode ENVIRONMENT Ambient service temperature Relative humidity Naximum affitude Noise level at 1 m UPS CABINET Dimensions W x D x H (mn) Weight (models with internal batteries) Weight (models without internal batteries) Weight (models without internal batteries) Power factor 20 / 230 / 240 V (± 1 %) S40 / 26 kg S30 / 240 V (± 1 %) S40 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 250 / 240 V (± 1 %) S41 / 2		230 V (1/1) 230 V (1/1) 400 V (3/1), 230 V (1/1)						
Rated frequency	Rated voltage							
Power factor CUTPUT Rated voltage Rated frequency So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 3 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 3 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz (± 0.1 Hz in battery mode) Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150% x 30 sec So/60 Hz Up to 105% continuously; 125% x 10 min; 150%	Rated frequency	, , , , , , , , , , , , , , , , , , , ,						
Rated voltage Rated frequency Overload Up to 105% continuously; 125% x 3 min; 150% x 30 sec Crest factor Connections 4 x IEC 320 (C13) 8 x IEC 320 (C13) 4 (C13) 1 (C19) terminals BATTERIES Type Sealed lead-acid maintenance free - expected life 3 / 5 years Voltage 36 V DC 72 V DC 12 min 16 min 9 min 11 min 7 min 9 min 12 A - COMMUNICATION Interfaces Ethernet adapter Local communication software EFFICIENCY Online mode up to 93 % Up to 93 % Up to 95% ENVIRONMENT Ambient service temperature Relative humidity Maximum altitude Noise level at 1 m VPS CABINET Dimensions W x D x H (mm) 145 x 404 x 224 192 x 428 x 322 225 x 416 x 589 Weight (models with internal batteries) Weight (models without internal batteries) Weight (models without internal batteries) Weight (models without internal batteries) Por 105% continuously; 125% x 3 min; up to 105% continuously; 125% x 10 min; 150% x 30 s 2 3:1 Up to 105% continuously; 125% x 3 min; up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 3 min; up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 3 min; up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 30 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 4 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 4 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 3:1 Up to 105% continuously; 125% x 10 min; 150% x 30 s 4 s 4 s 4 s 4 s 4 s 4 s 4 s 4 s 4 s	' '							
Solido Hz	OUTPUT				,,,,,,			
Rated frequency	Rated voltage	220 / 230 / 240 V (± 1 %)						
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 Connections 4 x IEC 320 (C13) 8 x IEC 320 (C13)+1 (C19) terminals 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(¹0²2) 12 min 16 min 9 min 11 min 7 min 9 min 7 min Back-up time(¹0²2) 12 min 16 min 9 min 11 min 7 min 9 min 7 min BACHUDION (TCP/IP & SNMP) (TCP/IP	Rated frequency							
Connections	Overload	up to 105% continuously; 125% x 3 min; up to 105% continuously; 125% x 3 min;						
Colinections	Crest factor							
Sealed s	Connections				terminals			
Type sealed lead-acid maintenance free - expected life 3 / 5 years Voltage 36 V DC 72 V DC 192 V DC Back-up time(¹⁰²²) 12 min 16 min 9 min 11 min 7 min 9 min 7 min Battery charger⁴³ 8 A 12 A -	BATTERIES	(010)	(010)	(010)11 (010)				
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 ⁽⁵⁾ 8 A 12 A - - COMMUNICATION Interfaces RS232 - USB - Dry contact Ethernet adapter Local View Local View EFFICIENCY Online mode up to 93% up to 95% ENVIRONMENT Ambient service from 0 °C to +40 °C (up to 45 °C (*)) temperature Relative humidity < 95% non-condensing			sealed	lead-acid maint	enance free - e	expected life 3 /	5 years	
Back-up time(**)(2)		36 V DC						
Battery charger® 8 A 12 A - COMMUNICATION Interfaces			. –		11 min			7 min
COMMUNICATION Interfaces								-
Interfaces	, ,							
Ethernet adapter		RS232 - USB - Dry contact						
Local communication software EFFICIENCY	Ethernet adapter							
software EFFICIENCY 0nline mode up to 93% up to 95% ENVIRONMENT Ambient service temperature Relative humidity < 95% non-condensing		, , , ,						
Online mode up to 93% up to 95% ENVIRONMENT Image: Comparition of the propertion of the propertion of the propertion of the propertion of the properties	software				Local view			
ENVIRONMENT Ambient service temperature Relative humidity Maximum altitude Noise level at 1 m UPS CABINET Dimensions W x D x H (mm) Weight (models with internal batteries) Weight (models without internal batteries) Degree of protection Row of to +40 °C (up to 45 °C (4)) 1000 m without de-rating 1000 m without de-rating 1000 m without de-rating 250 dBA 255 dBA 255 dBA 255 dBA 255 dBA 255 dBA 26 kg 192 x 428 x 322 225 x 416 x 589 61 kg 61 kg 61 kg	EFFICIENCY							
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$			up to 93 %		up to 95%			
Trom 0 °C to 140 °C (tip to 45 °C %) Relative humidity								
Relative humidity		from 0 °C to $+40$ °C (up to 45 °C $^{(4)}$)						
Maximum altitude 1000 m without de-rating Noise level at 1 m < 50 dBA < 55 dBA UPS CABINET 3 Dimensions W x D x H (mm) 145 x 404 x 224 x 2		,						
Noise level at 1 m UPS CABINET < 50 dBA < 55 dBA Dimensions W x D x H (mm) 145 x 404 x 224 192 x 428 x 322 225 x 416 x 589 Weight (models with internal batteries) 14,4 kg 26 kg 53 kg 61 kg 58 kg 61 kg Weight (models without internal batteries) 8 kg 11 kg 13,5 kg 15,8 kg - - Degree of protection IP20		3						
UPS CABINET Dimensions W x D x H (mm) 145 x 404 x 224 x 224 x 322 x 225 x 416 x 589 Weight (models with internal batteries) 14,4 kg 26 kg 53 kg 61 kg 58 kg 61 kg Weight (models without internal batteries) 8 kg 11 kg 13,5 kg 15,8 kg - - Degree of protection IP20					3			
Dimensions W x D x H (mm)			< 00	JUDA			< 33 UDA	
Weight (models with internal batteries)		1/5 v /0/						
batteries) 14,4 kg 26 kg 53 kg 61 kg 56 kg 61 kg Weight (models without internal batteries) 8 kg 11 kg 13,5 kg 15,8 kg - Degree of protection IP20	, ,		192 x 428 x 322		225 x 41		16 x 589	
Weight (models without internal 8 kg 11 kg 13,5 kg 15,8 kg - Degree of protection IP20	batteries)	14,4 kg	26 kg		53 kg	61 kg	58 kg	61 kg
Degree of protection IP20	Weight (models without internal	8 kg	11 kg		13,5 kg	15,8 kg		-
STANDARDS		IP20						
Safety IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2	Safety			IEC/EN 62040-1	, AS 62040.1.	1, AS 62040.1.	2	
EMC IEC/EN 62040-2, AS 62040.2		IEC/EN 62040-2, AS 62040.2						
Performance IEC/EN 62040-3 (efficiency tested by an external independent body)	Performance	IEC/EN 62040-3 (efficiency tested by an external independent body)						

- (1) @75 % of rated load (models with internal batteries) PF 0.7
- (2) Models with internal batteries

Product declaration

CE, RCM (E2376) (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.

