ITYS

UPS from 1 to 20 kVA

Highly reliable protection for IT and
critical industrial applications

CRITICAL POWER

socomec
Innovative Power Solutions

ITYS

Professional solutions for total protection

**Problems with power quality and continuity can be sudden and very frequent.
ITYS from 1 to 20 kVA ensures high availability, operational efficiency and total electrical protection for your business against any electrical disturbance and fault.**

GAMME 397 A

Why power quality is vital

The electronic and IT equipment, safety systems and control devices that have been installed to correctly operate a company's critical applications are all vital elements in today's fast-changing business world. At the same time, such equipment is itself more sensitive to electrical disturbances than in the past. Power problems are not the exclusive concern of big enterprises and organizations. Your computers, servers and network equipment are as much part of your business capital as for a large company's data centre.
Downtime and inefficiency are costly and can affect your internal and business transactions as well as your reputation. What also needs to be considered is the delay in restarting the devices and processes and restoring any files that may have been damaged or corrupted.
Having a well-designed and thought-through strategy for protecting the power supply means a company's 'business continuity' is assured, as well as being a tangible economic benefit.

High protection and availability

- True online double conversion technology (VFI) assures high availability and total load protection.
- Constant output voltage and frequency regulation makes ITYS compatible with different applications, operating environments and generator sets.
- Automatic bypass supplies the loads in the event of overloads or faults.
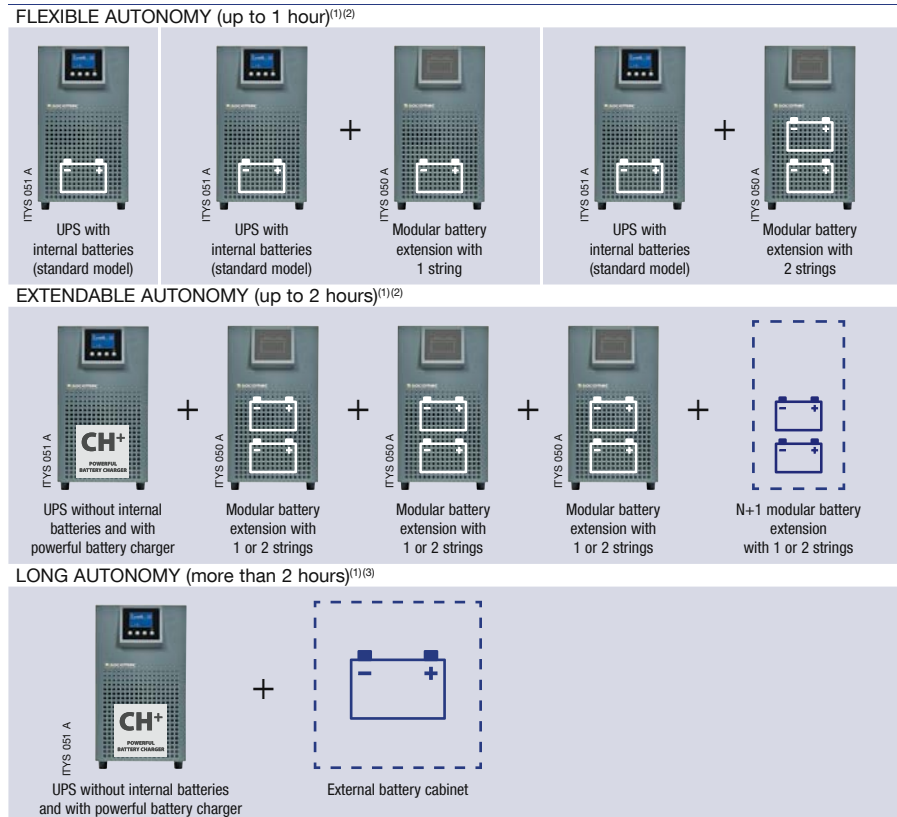
Robust and versatile

- Compact tower UPS system saves space in the operating environment.
- No particular configuration on first startup.
- Easy connections via sockets or terminals.
- Wide input voltage tolerance limits the switchovers to battery mode prolonging the battery life.
- Manual bypass for periodic or emergency maintenance.

The solution for

> Professional workstations
> Server and corporate networks
> Storage systems
> Industrial automation
> Security systems
> Telecom systems
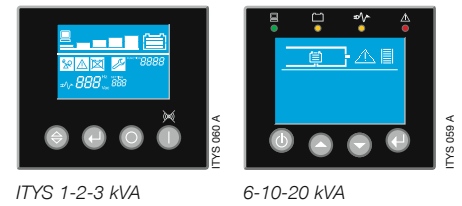
Wide battery configurability

- Flexible battery management available for all ITYS models to ensure power supply continuity in the event of an outage.
- Modular battery extension meets a wide variety of power back-up times according to the load to be supplied.

- Modular battery extension enables limitless increases in autonomy, even after installation.
- Powerful battery charger models guarantee constant and reliable operation using external high capacity batteries, therefore providing supply continuity during long outages.

Advanced communication

- Wide range of communication protocols available as options (including JBUS, TCP/IP and SNMP) for integration into LAN networks or building management systems (BMS).
- RS232 advanced connection for the management of power supply and local/remote shutdown of the applications with Windows®, Linux and Mac OS X® systems.
- USB port for direct interfacing with Windows® and Mac OS X® systems.
- Clear and uncluttered LCD interface for easy UPS monitoring, even for less specialist users.

FLEXIBLE AUTONOMY (up to 1 hour)(1)(2)

| UPS with internal batteries (standard model) | UPS with internal batteries (standard model) | Modular battery extension with 1 string | UPS with internal batteries (standard model) | Modular battery extension with 2 strings |

EXTENDABLE AUTONOMY (up to 2 hours)(1)(2)

| UPS without internal batteries and with powerful battery charger | Modular battery extension with 1 or 2 strings | Modular battery extension with 1 or 2 strings | Modular battery extension with 1 or 2 strings | N+1 modular battery extension with 1 or 2 strings |

LONG AUTONOMY (more than 2 hours)(1)(3)

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

(1) Depending on model and load. (2) 1/1 models. (3) All models.

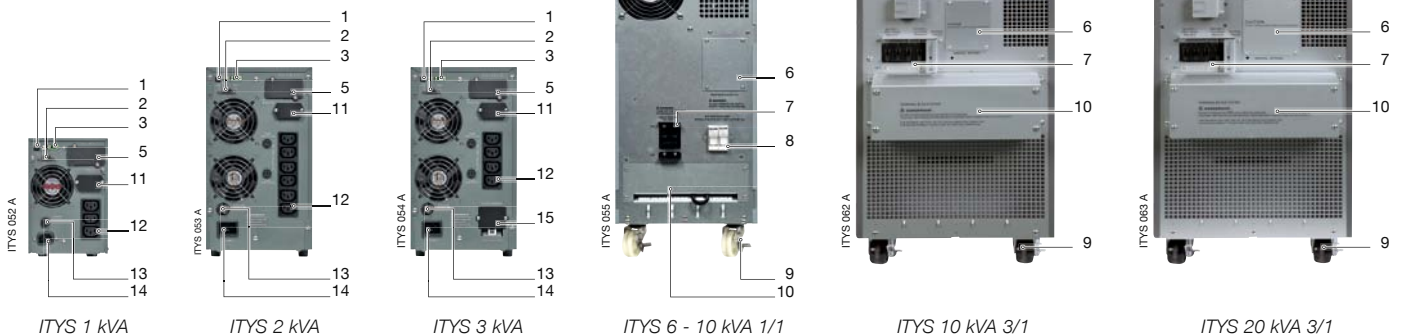*ITYS 1-2-3 kVA*

6-10-20 kVA

Local and IP network management solutions

- LOCAL VIEW: ideal point-to-point software for UPS monitoring and shutdown of Windows®, Linux and MAC OS X® operating systems (standard for all models).
- NET VISION: professional network adapter for monitoring and controlling UPS units from a remote location (option for all models).

Rear view connections

1. USB serial port
2. RS232 serial port
3. EPO (Emergency Power Off)
4. Dry contact interface (DB9)
5. Slot for optional communication boards(1)
6. Manual bypass
7. Input protection (thermal breaker)
8. Battery fuse holder
9. Castor wheel with security lock
10. Input, output and external battery terminal board
11. Connection for modular battery extension
12. Output sockets
13. Input protection
14. Input socket
15. Output terminals

(1) Dry contact interface or WEB/SNMP network adapter.

ITYS 1 kVA *ITYS 2 kVA* *ITYS 3 kVA* *ITYS 6 - 10 kVA 1/1* *ITYS 10 kVA 3/1* *ITYS 20 kVA 3/1*

Technical data

	ITYS - UPS						
Model with internal batteries	ITY2-TW010B	ITY2-TW020B	ITY2-TW030B	ITY2-TW060B	ITY2-TW100B	ITY2-TW110B	ITY2-TW210B
Model without internal batteries	ITY2-TW010LB	ITY2-TW020LB	ITY2-TW030LB	ITY2-TW060LB	ITY2-TW100LB	ITY2-TW110LB	ITY2-TW210LB
Sn [kVA]	1	2	3	6	10	10	20
Pn [kW]	0.8	1.6	2.4	5.4	9	9	18
Input/output	1/1					3/1 or 1/1	
INPUT							
Rated voltage	230 V						
Voltage tolerance	110÷300 V				110÷276 V		
Rated frequency	50 / 60 Hz ± 10 %						
Power factor	0.98					0.99	
OUTPUT							
Rated voltage	208/220/230/240 V						
Voltage tolerance	± 2 %				± 1 %		
Rated frequency	50/60 Hz						
Overload	Up to 150 % for 10 seconds			Up to 150 % for 1 minute		Up to 150 % for 10 seconds	
Connections	sockets		sockets + terminals	terminals			
BATTERIES							
Type	sealed lead-acid maintenance free - expected life 3/5 years						
Voltage	36 V DC	96 V DC		240 V DC		288 V DC	
Back-up time @75 % of rated load (models with internal batteries) PF 0.7	10 min	17 min	9 min	13 min	9 min	12 min	12 min
Battery charger (LB models without internal batteries)	8 A			4 A		4 A	
COMMUNICATION							
Interfaces	RS232 - USB			RS232 - USB - Dry contact		RS232 - USB	
Ethernet adapter	NET VISION (TCP/IP & SNMP) optional card						
Local communication software	Local View						
EFFICIENCY							
Online mode	up to 92 %				up to 94 %		
ENVIRONMENT							
Ambient service temperature	0 °C to +40 °C (15 °C to 25 °C for maximum battery lifetime)						
Relative humidity	< 95 % non-condensing						
Maximum altitude	1000 m without de-rating						
Noise level at 1 m	< 50 dBA			< 55 dBA		< 55 dBA	
UPS CABINET							
Dimensions W x D x H	145 x 400 x 220 mm	192 x 460 x 347 mm		260 x 550 x 708 mm		350 x 650 x 890 mm	
Weight (models with internal batteries)	13 kg	31 kg		80 kg	84 kg	127 kg	188 kg
Weight (models without internal batteries)	7 kg	13 kg		25.5 kg	29.5 kg	48 kg	58 kg
Degree of protection	IP20						
STANDARDS							
Safety	EN 62040-1						
EMC	EN 62040-2						
Product certification	CE						
ITYS - MODULAR BATTERY EXTENSION							
Model	ITY2-EX010HB	ITY2-EX030HB		ITY2-EX100HB		-	
Number of strings	1	1		1		-	
Model	ITY2-EX010B	ITY2-EX030B		ITY2-EX100B		-	
Number of strings	2	2		2		-	

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