

Single-phase and three-phase UPS PRIME Power Protection

2020



When **energy** matters





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LENS FACTORY

5折

80%

Prime

Single-phase UPS



NETYS PL
600 to 800 VA
p. 4



NETYS PE
600 to 2000 VA
p. 6



NETYS PR
Mini Tower
1000 to 2000 VA
p. 8



NETYS PR
Rack/Tower
1700 to 3300 VA
p. 10



NETYS PR
Rack 1U
1000 and 1500 VA
p. 12



ITYS
1 to 10 kVA
p. 14



ITYS ES
1000 to 3000 kVA
p. 16

Three-phase UPS



MASTERYS BC+ FLEX
10 to 40 kVA
p. 18



MASTERYS BC+
10 to 160 kVA
p. 20



DELPHYS BC
200 to 300 kVA
p. 22

Transformer-based UPS



DELPHYS MP Elite+
80 to 200 kVA
p. 24

Emergency CPSS



MODULYS EM
1,5 to 6 kVA
p. 26



MASTERYS EM
10 to 80 kVA
p. 26



DELPHYS EM
160 to 200 kVA
p. 26

Trustworthy power



UPS solutions providing a reliable and cost effective protection to assure operational power continuity.

NETYS PL

User-friendly multi-socket protection

600 and 800 VA



NETYS PL
600 VA

NETYS PL
800 VA

The solution for

- > PC: LCD or CRT monitors, scanners, printers, etc.
- > Cash registers
- > Interactive terminals

Technology

- > VFD "offline"

Certifications



An innovative solution and superior design

- Compact and practical pluggable power protection integrating a larger number of sockets adapted to computer and IT peripherals in small office and home office environments, facilitating connection and tidier cabling.
- Modern design suitable for positioning over/under the desk or floor installations.
- Complementary USB port on the top for recharging mobile devices (e.g. phones, MP3, etc.).

Adapted protection to meet all your needs

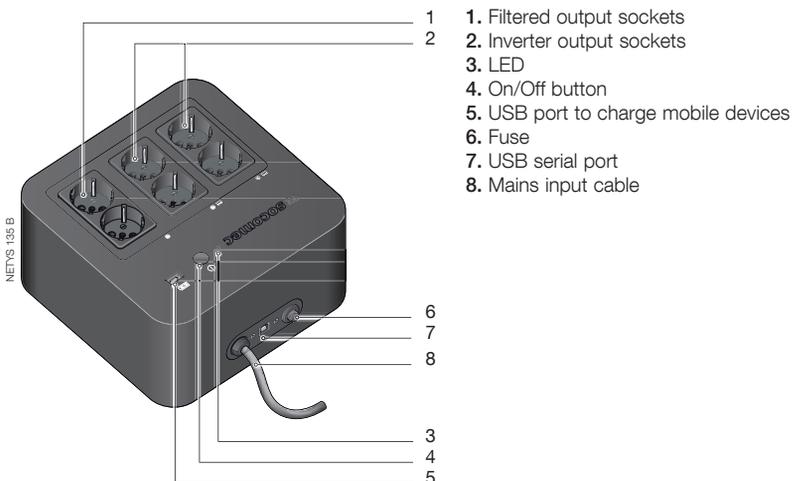
- 6 output sockets (British, French or German/Italian standards) for easy distribution directly to your applications:
 - 4 sockets protected against power cuts and overvoltages, aimed at your most sensitive applications (professional desk top systems, workstation and monitors). The back-up time (up to 30 minutes) enables standard PC tasks and configuration to be saved.
 - 2 sockets protected against overvoltage alone for use with less critical applications and high absorption consumers (e.g. laser printers).

Easy to use

- Operating mode indicated by means of the smart LED indicator lights.
- Easy battery maintenance and replacement.
- Integrated mains input cable on the side, allowing all six sockets to be used.

GAMME 2155

Connections



Socket types



Standard electrical features

- USB port to charge mobile devices



Technical data

NETYS PL						
Model	NPL-0600-B	NPL-0600-D	NPL-0600-F	NPL-0800-B	NPL-0800-D	NPL-0800-F
Sn	600 VA			800 VA		
Pn	360 W			480 W		
Power (surge)	1200 VA					
Input/output	1/1					
INPUT						
Rated voltage	230 V					
Voltage tolerance	180 ÷ 270 V					
Rated frequency	50/60 Hz with automatic selection					
Mains connection	Cable with plug					
OUTPUT						
Rated voltage	230 V ±10%					
Rated frequency	50/60 Hz ±1%					
Wave form	Step wave					
Protection	Overload, significant discharge and short circuit					
Sockets	4 sockets for UPS and surge protection, 2 sockets for surge protection					
Socket standard	British	German/Italian	French	British	German/Italian	French
BATTERIES						
Type	Sealed lead-acid maintenance free - expected life 3/5 years					
Back-up time ⁽¹⁾	15 min			20 min		
COMMUNICATION						
Interfaces	USB					
Local communication software	Local View					
UPS CABINET						
Dimensions W x D x H	220 x 220 x 123 mm					
Weight	3.6 kg			4.1 kg		
Colour	Black			White		
STANDARDS						
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2					
EMC	IEC/EN 62040-2, AS 62040.2					
Product declaration	CE, RCM (E2376)					

(1) PC + 17" LCD monitor.

Standard communication features

- USB port for UPS management based on HID protocol.
- LOCAL VIEW software for local UPS monitoring and shutdown for Windows, Linux and MAC Osx.

NETYS PE

Practical and cost-effective protection
from 600 to 2000 VA



The solution for

- > CAD, graphic workstations
- > Multimedia workstations and peripherals
- > LCD screens and monitors
- > POS (Points Of Sales)

Technology

- > VI "line interactive" with AVR, step wave

Certifications



Ideal and cost-effective protection for SOHO or POS applications

- Adapted to protect IT applications in home, office and retail environments.
- A complete range of six models to adapt the power to the equipment's consumption or to required back-up time.

Easy to use

- Control panel with graphical icons LCD/LEDs allowing the operating mode to be easily monitored.

A solution for network power cuts and voltage fluctuations

- The integrated AVR function (Automatic Voltage Regulation) stabilizes the output voltage and avoids the switching to Battery Mode operation, therefore saving the battery to support critical power cut events.

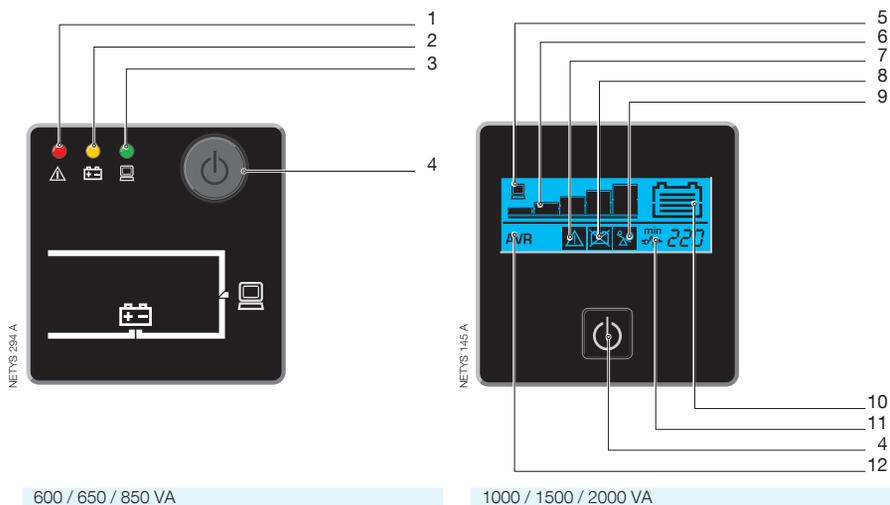
Simplified connection

- Several IEC 320 sockets (IT standard) simplify the connectivity to computer and IT peripherals.

Protection for your data line

- Integrated NTP protection for LAN/ADSL connection against the risk of data line overvoltage.

Control panel



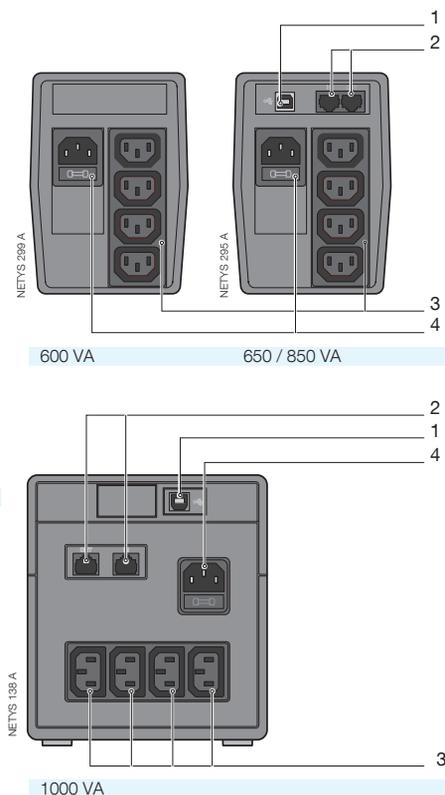
600 / 650 / 850 VA

1000 / 1500 / 2000 VA

1. Alarm
2. Operation with battery
3. Normal operation
4. On / Off
5. Load present
6. Load level (5 steps)

7. General Alarm
8. Battery fault / Replace the battery
9. Overload
10. Battery capacity
11. Normal mode / Battery mode (flashing)
12. Automatic Voltage / Regulation active

Connections



600 VA

650 / 850 VA

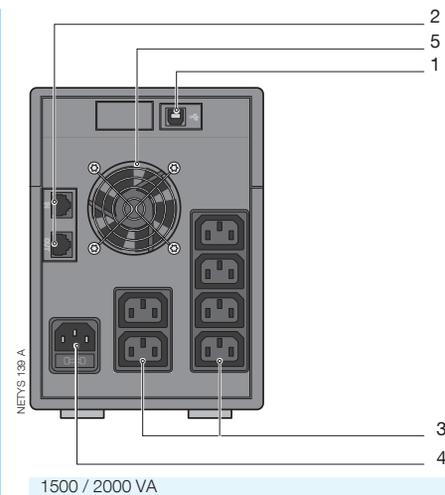
1000 VA

Technical data

NETYS PE						
Model	NPE-B600	NPE-0650	NPE-0850	NPE-1000-LCD	NPE-1500-LCD	NPE-2000-LCD
Sn	600 VA	650 VA	850 VA	1000 VA	1500 VA	2000 VA
Pn	360 W	360 W	480 W	600 W	900 W	1200 W
Input/output	1/1					
INPUT						
Rated voltage	230 V					
Voltage tolerance	170 - 280 V					
Rated frequency	50/60 Hz with automatic selection					
Mains connection	IEC320 socket					
OUTPUT						
Automatic Voltage Regulation (AVR)	•	•	•	•	•	•
Rated voltage (Battery Mode)	230 V ±10%					
Rated frequency	50/60 Hz ±1%					
Wave form	Step wave					
Protection	Overload, significant discharge and short circuit					
Connections	4 x IEC 320 (C13) ⁽¹⁾			6 x IEC 320 (C13) ⁽¹⁾		
BATTERIES						
Type	Sealed lead-acid maintenance free - expected life 3/5 years					
Back-up time ⁽²⁾	15 min	15 min	20 min	45 min	55 min	60 min
COMMUNICATION						
Interfaces	USB					
Local communication software	Local View					
Data Line protection	NTP data line suppressor					
UPS CABINET						
Dimensions W x D x H	100 x 300 x 145 mm		145 x 345 x 165 mm		145 x 390 x 205 mm	
Weight	5.0 kg	5.2 kg	6.0 kg	9.7 kg	11.2 kg	12 kg
STANDARDS						
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2					
EMC	IEC/EN 62040-2, AS 62040.2					
Product declaration	CE, RCM (E2376)					

(1) Australian standard sockets on Netys PE models specific for Australia.

(2) PC + 17" LCD monitor.



1500 / 2000 VA

1. USB serial port
2. NTP data line suppressor
3. UPS output sockets
4. Input socket and fuse
5. Fan / air vents

Standard communication features

- USB port for UPS management based on HID protocol.
- LOCAL VIEW software for local UPS monitoring and shutdown for Windows, Linux and MAC Osx.

NETYS PR

Space saving reliable protection
from 1000 to 2000 VA - Mini Tower



The solution for

- > Professional and IT equipment
- > Servers and networking devices
- > CAD / graphic workstations with monitors and peripherals
- > Control systems

Technology

- > VI "line interactive" with AVR, sine wave

Certifications



Professional line interactive UPS

- Ideal solution for protecting small servers and high performance CAD or graphic workstations.
- Assures service continuity to critical applications.
- Designed for professional applications: the sinewave inverter technology assures full compatibility with any kind of load and power supply.
- Minitower case to easily fit close to the IT load to be supplied and protected.

A solution for network power cuts and voltage fluctuations

- The integrated AVR function (Automatic Voltage Regulation) stabilizes the output voltage and avoids the switching to Battery Mode operation, therefore saving the battery to support critical power cut events.

Easy to use

- Control panel with graphical icons LCD allowing the operating mode to be easily monitored.

Simplified connection

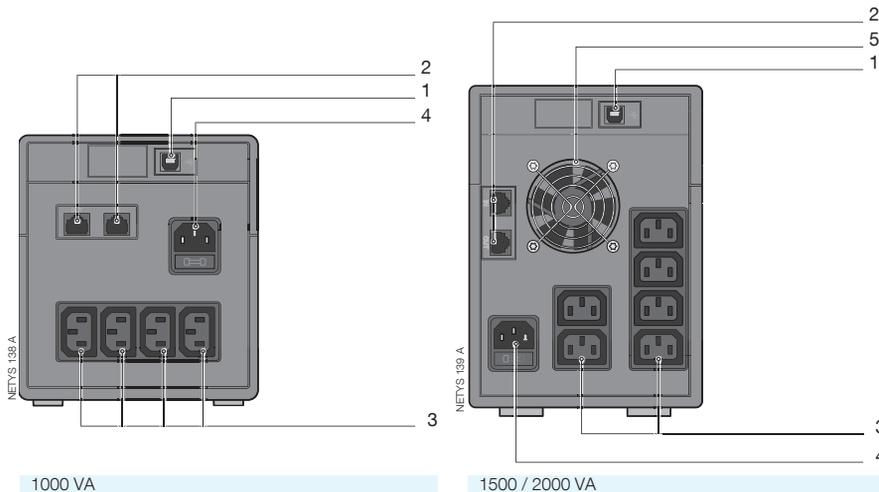
- Several IEC 320 sockets (IT standard) simplify the connectivity to computer and IT peripherals.

Protection for your data line

- Integrated NTP protection for LAN/ADSL connection against the risk of data line overvoltage.

GAMME 258 A

Connections



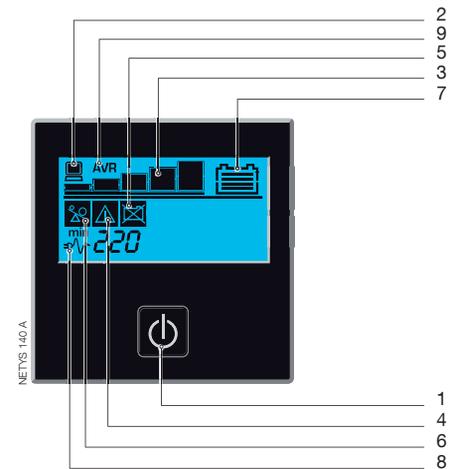
1000 VA

1500 / 2000 VA

1. USB serial port
2. NTP data line suppressor
3. UPS output sockets

4. Input socket and fuse
5. Fan / air vents

Control panel



1. On / Off
2. Load present
3. Load level (5 steps)
4. General Alarm
5. Battery fault / Replace the battery
6. Overload
7. Battery capacity
8. Normal mode / Battery mode (flashing)
9. Automatic Voltage / Regulation active

Technical data

NETYS PR Mini Tower			
Model	NPR-1000-MT	NPR-1500-MT	NPR-2000-MT
Sn	1000 VA	1500 VA	2000 VA
Pn	700 W	1050 W	1400 W
Input/output	1/1		
INPUT			
Rated voltage	230 V		
Voltage tolerance	170 - 280 V		
Rated frequency	50/60 Hz with automatic selection		
Mains connection	IEC320 socket		
OUTPUT			
Automatic Voltage Regulation (AVR)	•	•	•
Rated voltage	230 V ±10%		
Rated frequency	50/60 Hz ±1%		
Wave form	Sine wave		
Protection	Overload, significant discharge and short circuit		
Connections	4 x IEC 320 (C13)	6 x IEC 320 (C13)	
BATTERIES			
Type	Sealed lead-acid maintenance free - expected life 3/5 years		
Back-up time ⁽¹⁾	45 min	55 min	60 min
COMMUNICATION			
Interfaces	USB		
Local communication software	Local View		
Data Line protection	NTP data line suppressor		
UPS CABINET			
Dimensions W x D x H	145 x 345 x 165 mm	145 x 390 x 205 mm	
Weight	9.2 kg	12.3 kg	13.2 kg
STANDARDS			
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2		
EMC	IEC/EN 62040-2, AS 62040.2		
Product declaration	CE, RCM (E2376)		

(1) PC + 17" LCD monitor.

Standard communication features

- USB port for UPS management based on HID protocol.
- LOCAL VIEW software for local UPS monitoring and shutdown for Windows, Linux and MAC Osx.

NETYS PR

High performance protection on rack or tower
from 1700 to 3300 VA - Rack/Tower

Prime



The solution for

- > Professional and IT equipment
- > Servers and networking devices
- > CAD / graphic workstations with monitors and peripherals
- > Control systems

Technology

- > VI "line interactive" with AVR, sine wave

Certifications



A secure and professional supply continuity

- Ideal solution for protecting small servers, networking devices and peripherals.
- Assures service continuity to critical applications.
- Designed for professional applications: the sine wave inverter technology assures full compatibility with any kind of load and power supply.

Tailored to IT networking

- The space and time-saving tower/rack conversion option means it can be installed easily either in tower mode or inside standard 19" rack cabinets depending on the user's needs.

Simple to install

- No configuration needed on first startup.
- Compact footprint (2U/89 mm) for installation in rack cabinets.
- Attractive design for visible installation in offices.
- USB port and HID protocol as standard for direct interfacing with Windows® systems, without the need for additional specialist software.

Protection for your data line

- Integrated NTP protection for LAN/ADSL connection against the risk of data line overvoltage.

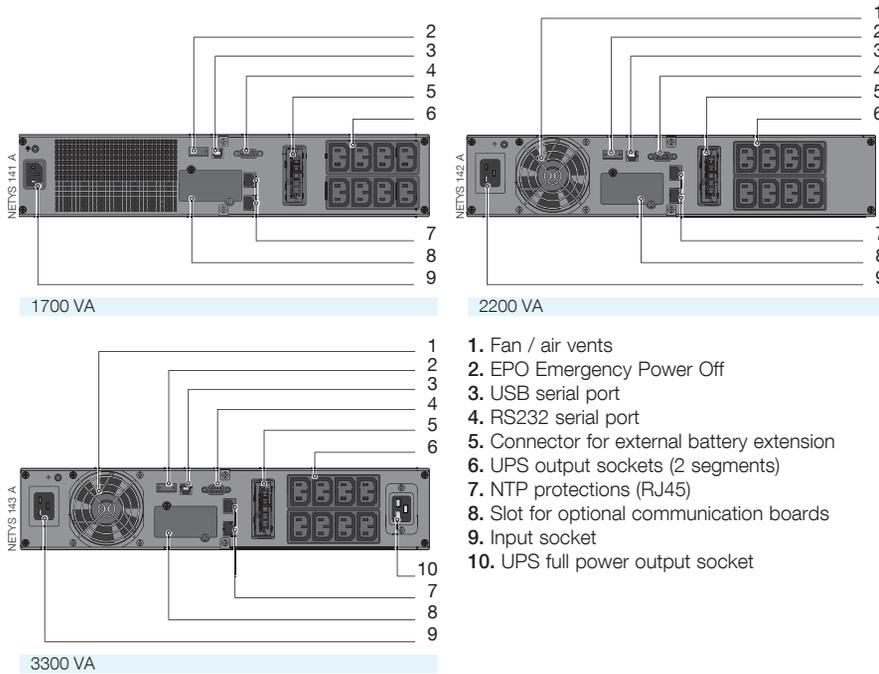
Meets practical needs

- Optional battery extension modules (EBM) to meet all back-up time requirements, even after installation.
- Clear and uncluttered LCD interface, with buzzers that immediately indicate the operating status of the UPS, even for less specialist users.
- Simplified maintenance and Battery 'hot swap', without closing down other applications.

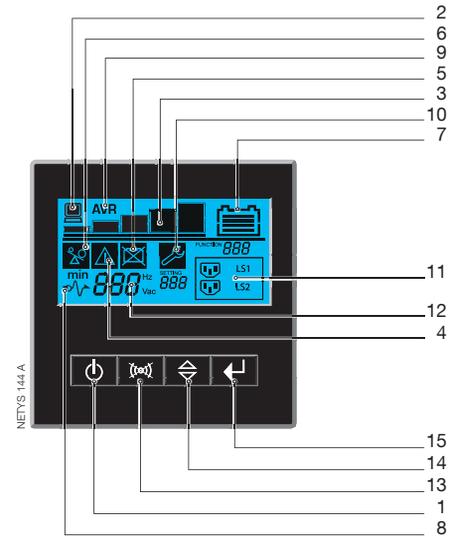
Easy to use and to integrate

- Wide range of communication protocols available in options (including JBUS, TCP/IP and SNMP) for integration into LAN networks or building management systems (BMS).
- Easy connections to the applications (depending on power) via 8 or 8+1 IEC 320 (IT standard) sockets.
- Load segmentation function to prioritize loads and manage critical situations.
- EPO (Emergency Power Off) emergency stop.
- RS232 advanced connections for the management of the power supply and local/remote shutdown of applications.

Connections



Control panel



Technical data

NETYS PR Rack/Tower			
Model	NPR-1700-RT	NPR-2200-RT	NPR-3300-RT
Sn	1700 VA	2200 VA	3300 VA
Pn	1350 W	1800 W	2700 W
Input/output	1/1		
INPUT			
Rated voltage	230 V		
Voltage tolerance	161 V ±4% (selecting wide mode) -276 V ±4%		
Rated frequency	50/60 Hz with automatic selection		
Mains connection	IEC320-C14 (10 A)	IEC320-C20 (16 A)	
OUTPUT			
Automatic Voltage Regulation (AVR)	The AVR increases (boost) the output voltage by 14% when the input voltage drops below 90% of the nominal value. The AVR decreases (bucks) the output voltage by 12% when the input voltage rises above 106% of the nominal value.		
Rated voltage	230 V ±5%		
Rated frequency	50/60 Hz ±0.1%		
Power factor	0.9 @ 1500 VA	0.9 @ 2000 VA	0.9 @ 3000 VA
Wave form	Sine wave		
Protection	Normal Mode: overload (110% for 3 minutes) Battery Mode: overload (110% for 30 seconds); shortcircuit protected		
Connections	8 (10 A) x IEC 320		8 (10 A) x IEC 320 1 (16 A) x IEC 320
BATTERIES			
Type	Sealed lead-acid maintenance free - expected life 3/5 years		
Back-up time ⁽¹⁾	6 min	8 min	6 min
COMMUNICATION			
Interfaces	RS232 - USB		
Ethernet adapter	NET VISION (TCP/IP & SNMP) optional card		
Local communication software	Local View		
Data line protection	NTP data line suppressor: RJ45 10 Base T		
UPS CABINET			
Dimensions W x D x H	440 x 436 x 87 mm	440 x 608 x 87 mm	
Weight	18 kg	28.2 kg	31.5 kg
STANDARDS			
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2		
EMC	IEC/EN 62040-2, AS 62040.2		
Product declaration	CE, RCM (E2376)		

(1) @ 75% of load.

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.

Communication options

- Dry-contact interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- Environmental Monitoring Device (EMD).
- REMOTE VIEW PRO supervision software.
- Rails.

Battery extensions

NETYS PR 1700 VA	+ 1 (NPR-B1700-RT) 22 min	+ 2 (NPR-B1700-RT) 42 min
NETYS PR 2200 VA	+ 1 (NPR-B3300-RT) 37 min	+ 2 (NPR-B3300-RT) 72 min
NETYS PR 3300 VA	+ 1 (NPR-B3300-RT) 22 min	+ 2 (NPR-B3300-RT) 43 min

NETYS PR

High density, compact power protection on rack

1000 and 1500 VA - Rack 1U

Prime



A professional UPS

- Designed for professional environments, protection against power cuts and over voltage is ensured by Line Interactive technology with Automatic Voltage Regulation (AVR).

An installation adapted to the networking environment

- NETYS PR rack provides high power density (1U - 45 mm) which conserves valuable space in the rack for other equipment.
- Can be easily installed in 19" and 23" Rack cabinets, depending on the user's needs. The UPS is provided with rails and mounting accessories.

Adapted connections

- Easy connections to the applications via 4 IEC 320 (IT standard) sockets.

Data line protection

- With RJ45 connector.

Communication with the computer system

- RS232 or USB advanced connections for the management of the power supply and local / remote shutdown of applications.
- Advanced diagnostics and remote control via various protocols and user environments: JBUS, HID, SNMP, TCP/IP.

The solution for

- > Professional and IT equipment
- > Servers and networking devices
- > CAD / graphic workstations with monitors and peripherals
- > Control systems

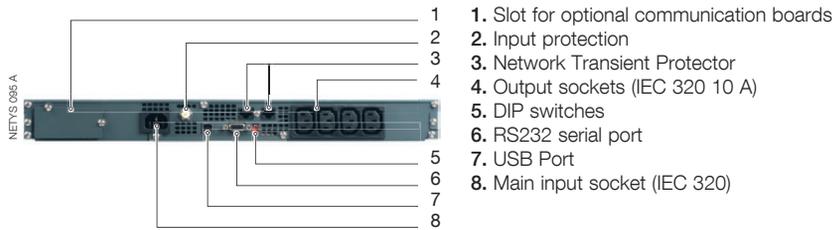
Technology

- > VI "line interactive" with AVR, sine wave

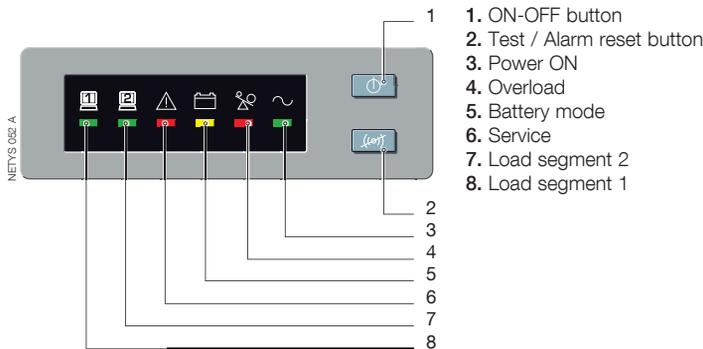
Certifications



Connections



Control panel



Battery Hot-swap

- Battery can be hot-swapped without having to shut down the connected equipment.
- Battery can be replaced from the front without removing and disconnecting the UPS.
- Battery check system and replacement indicator.



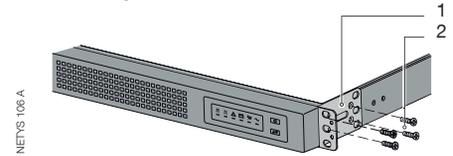
Technical data

NETYS PR Rack 1U		
Model	NET1000-PR-1U	NET1500-PR-1U
Sn	1000 VA	1500 VA
Pn	670 W	1000 W
Input/output	1/1	
INPUT		
Rated voltage	230 V (default), 220 V, 230 V, 240 V selectable	
Rated frequency	50/60 Hz auto-sensing	
OUTPUT		
Rated voltage	230 V	
Rated frequency	50/60 Hz	
Sockets	4 x IEC 320 (10 A)	
Data line protection	NTP data line suppressor: RJ45 10 Base T	
BATTERIES		
Type	sealed lead-acid maintenance free - expected life 3/5 years	
Back-up time ⁽¹⁾	12 min	
COMMUNICATION		
Interfaces	RS232 - USB	
Local communication software	Local View	
UPS CABINET		
Dimensions W x D x H	440 x 578 x 44.5 mm	
Weight	21 kg	23 kg
STANDARDS		
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2	
EMC	IEC/EN 62040-2, AS 62040.2	
Product declaration	CE, RoHS (E2376)	

(1) PC + 15" LCD monitor.

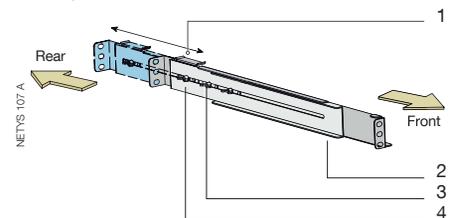
Included

- Mounting bracket for 19" rack



1. Mounting bracket
2. M3 x 6 bracket screws

- Adjustable rails



1. Rear Hold-Down Bracket
2. Rail assembly
3. Assembly Wing Nuts
4. Wing nut for rear Hold-down bracket

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.

Communication options

- Dry-contact interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- Environmental Monitoring Device (EMD).
- REMOTE VIEW PRO supervision software.

ITYS

Reliable and versatile power protection
from 1 to 10 kVA

Prime



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 IEC 320 sockets or terminals.
- Wide input voltage tolerance limits the switchovers to battery mode prolonging the battery life.
- Manual bypass for periodic or emergency maintenance.

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.

The solution for

- > Professional workstations
- > Server and corporate networks
- > Storage systems
- > Industrial automation
- > Security systems
- > Telecom systems

Technology

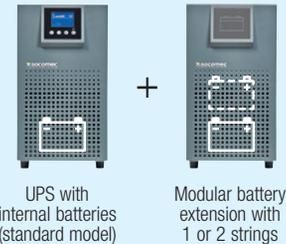
- > VFI "online double conversion"

Certifications

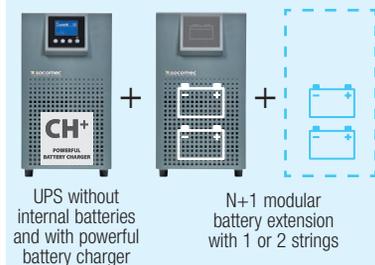


Autonomy configurations (1/1 models)

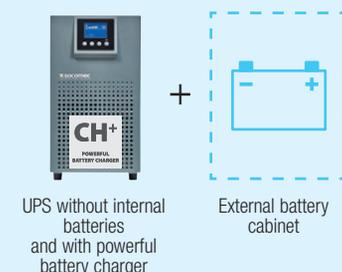
> Flexible autonomy



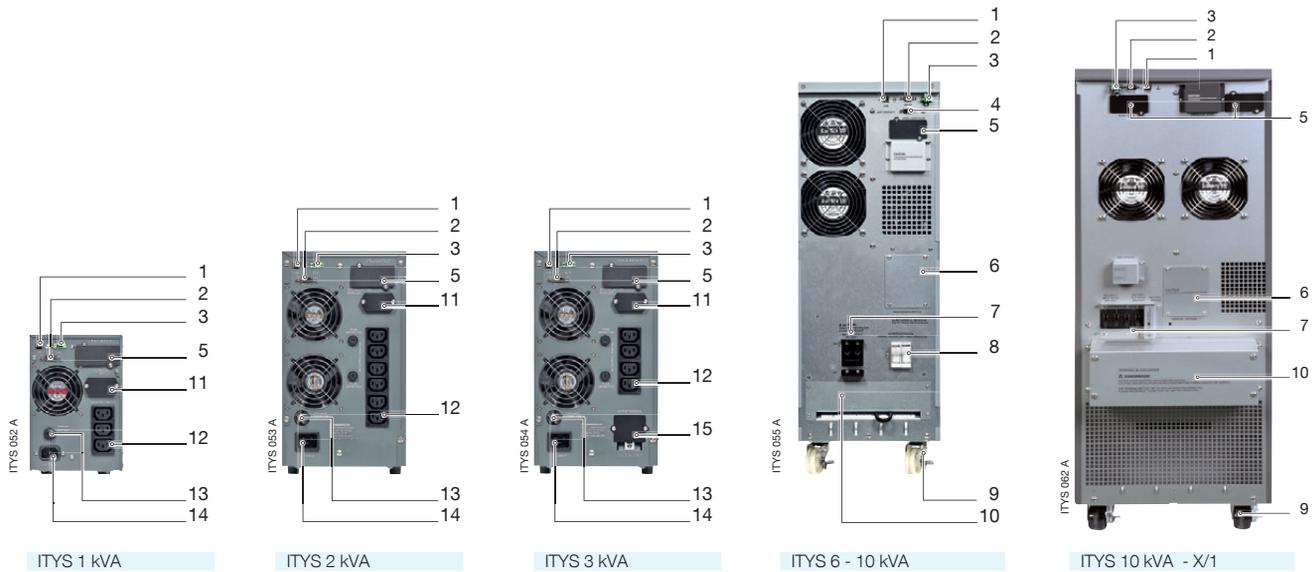
> Extendable autonomy



> Long autonomy



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 (IEC 320)
 - 13. Input protection
 - 14. Input socket (IEC 320)
 - 15. Output terminals
- ⁽¹⁾ Dry contact interface or WEB/SNMP network adapter.

Technical data

Model	ITYS - UPS					
	ITY2-TW010B	ITY2-TW020B	ITY2-TW030B	ITY2-TW060B	ITY2-TW100B	ITY2-TW110B
S _n	1000 VA	2000 VA	3000 VA	6000 VA	10000 VA	10000 VA
P _n	800 W	1600 W	2400 W	5400 W	9000 W	9000 W
Input/output	1/1					1/1 or 3/1
INPUT						
Rated voltage	230 V (110÷300 V)			230 V (176÷276 V)		400 V (3/1), 230 V (1/1)
Rated frequency	50/60 Hz ±10% (Auto-Selectable)					
Power factor	0.98					0.99
OUTPUT						
Rated voltage	208 / 220 / 230 / 240 V (± 2 %)			208 / 220 / 230 / 240 V (± 1 %)		
Rated frequency	50/60 Hz (± 0.2 Hz in battery mode)					
Overload	up to 150% for 10 seconds			up to 150% for 1 minute		up to 150% for 10 seconds
Crest factor	3:1					
Connections	3 x IEC 320 (C13)	6 x IEC 320 (C13)	4 x IEC 320 (C13)+ 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 ⁽¹⁾⁽²⁾	10 min	17 min	9 min	13 min	9 min	9 min
Battery charger ⁽³⁾	8 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 91 %			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		
UPS CABINET						
Dimensions W x D x H (mm)	145 x 400 x 220	192 x 460 x 347		260 x 550 x 708		350 x 650 x 890
Weight (models with internal batteries)	13 kg	31 kg		80 kg	84 kg	127 kg
Weight (models without internal batteries)	7 kg	13 kg		25.5 kg	29.5 kg	-
Degree of protection	IP20					
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)					

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

⁽³⁾ Models without batteries

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.



ITYS 1-2-3 kVA

ITYS 6-10 kVA

Communication options

- Dry-contact interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- Environmental Monitoring Device (EMD).
- REMOTE VIEW PRO supervision software.

ITYS ES

Solution for electrical substations

from 1000 to 3000 VA - Electrical Substation

Prime



High protection and high availability

- The ITYS ES series is a range of compact UPS systems available in 1000, 2000 and 3000 VA models with on-line double conversion technology (VFI) with sinusoidal absorption.
- ITYS ES guarantees permanent regulation of the output voltage and frequency. This technology is compatible with all IT and industrial applications and operating environments, installations with generator sets included.
- Wide tolerance on input voltage ensures that switchovers to battery mode are infrequent, significantly prolonging battery lifetime.
- The automatic bypass device switches over in zero time in the event of overload or failure, guaranteeing uninterrupted services.

Straightforward to install and easy to use

- The UPS is shipped ready for connection with internal batteries connected and charged.
- ITYS ES, with the manual bypass option is easy to install without any special plant engineering preparation, as it is equipped with built-in thermal protection.

- The LCD monitoring/control panel and a buzzer make the equipment extremely easy and intuitive to use. The graphic indicating the power distribution path shows at a glance whether or not the system is working as it should.
- Battery efficiency can be tested via the control panel or using dedicated software.

Operating efficiency and versatility

- The versatility of these models makes them suitable for protecting critical devices in the industrial field.
- The standard equipment and communication accessories have been specially designed to satisfy the typical needs of installation or use in transformer cabins (i.e. tropicalized boards).
- In situations where automatic power management procedures are required, the communication software can be used to programme scheduled start-up and shutdown times.
- Restarting the UPS from the battery to power the DG before closing the main isolator.

The solution for

- > Control devices
- > Electric lines

Technology

- > VFI "online double conversion"

Certifications



Tech info

The CEI 016 STANDARD for auxiliary cabin equipment requires an uninterrupted power supply to the control circuits for the General Protection and Medium Voltage Switch.

The control circuits for the General Protection, Medium Voltage Switch and coil must be powered by the same auxiliary voltage when there is no power. The power supply must be guaranteed for a back-up time of 1 hour, either by the UPS or by buffer batteries.

The Medium Voltage Switch must be powered up by skilled personnel if out of service for a long time due to maintenance or failure.

It is necessary to power the General Protection before closing the Medium Voltage Switch.

The required protection comprises:

- Mains power cuts due to poor maintenance of the user's system.
- Inappropriate tripping of the Medium Voltage Switch because of faults in the trip circuit.
- Alert signalling if the Medium Voltage Switch trips due to a power failure (system with regular maintenance).

UPS - Technical data

ITYS ES			
Model	ITY2-TW010B-ES	ITY2-TW020B-ES	ITY2-TW030K-ES
Sn [VA]	1000	2000	3000
Pn [W]	800	1600	2400
Input/output	1/1		
INPUT			
Rated voltage	230 V (110÷300 V)		
Rated frequency	50/60 Hz		
Power factor	0.98		
OUTPUT			
Rated voltage	208 / 220 / 230 / 240 V (± 2 %)		
Rated frequency	50 / 60 Hz (45÷55 Hz / 54÷66 Hz)		
Overload	up to 150% for 10 seconds		
Crest factor	3:1		
Wiring	3 x IEC 320 (C13)	6 x IEC 320 (C13)	4 x IEC 320 (C13) + terminals
BATTERIES			
Type	sealed lead-acid maintenance free - expected lifetime 3-5 years		
Back-up time at 75% of the rated load ⁽¹⁾	10 minutes	17 minutes	9 minutes
Sized for a back-up time of	115 minutes @ 50 W	154 minutes @ 100 W	216 minutes @ 150 W
Back-up time ⁽²⁾ + switching back on	60 minutes @ 50 W	60 minutes @ 100 W	60 minutes @ 150 W
Battery test	•	•	•
COMMUNICATION			
Interfaces	RS232 - USB		
Ethernet adapter	NET VISION (TCP / IP & SNMP) optional card		
Local communication software	Local View		
EFFICIENCY			
Online mode	up to 92%		
ENVIRONMENT			
Ambient service temperature	from 0 °C up to +40 °C (from 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		
UPS			
Dimensions W x D x H	145 x 400 x 220 mm	192 x 460 x 347 mm	384 x 460 x 347 mm
Weight	13 kg	31 kg	56 kg
Degree of protection	IP20		
COMPLIANCE WITH STANDARDS			
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2		
EMC	IEC/EN 62040-2, AS 62040.2		
Product declaration	CE, RCM (E2376)		
ITYS ES - Manual bypass ⁽³⁾			
Sn [VA]	1000	2000	3000
INPUT			
Type of terminals	CBD6		
Wire size	6 mm ² max		
BYPASS			
Switching positions	1: UPS - 2: MAINS		
Switching time	6 ms max		
LOAD OUTPUT			
Type of terminals	CBD6		
Wire size	6 mm ² max		
UPS SUPPLY OUTPUT			
Type of socket	IEC 320 10 A	IEC 320 16 A	
SURGE ARRESTORS (on request)			
Type	"L" in compliance with CEI EN 61643-11		
L/N pulse current	40 kA (8/20) max		
VAC N/GND	255 V max		
VAC L/N	320 V max		

(1) @ 25 °C with charged battery.

(2) Factory setting: back-up time limited to 60 minutes to permit subsequent restarting with battery.

(3) Upon request.

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 .

Communication options

- Dry-contact interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- Environmental Monitoring Device (EMD).
- REMOTE VIEW PRO supervision software.

Manual bypass (option)

- Specially designed for ITYS ES, the manual bypass option enables:
 - simplified installation: connection to the system is made with industrial grade terminals, while connection to the UPS is via the pre-wired plug and socket supplied.
 - easy maintenance and uninterrupted operation: thanks to the manual bypass isolator it is possible to service or replace the UPS while maintaining the power supply to the devices downstream in complete safety for the operator. This operation has been specially devised to be simple to carry out, even in an emergency.
 - increased level of equipment immunity to surge voltages, typical for this type of application, thanks to suitable surge arrestors included in addition to standard UPS protection.



MASTERYS BC+ FLEX

A system that fits every space
from 10 to 40 kVA



A flexible and cost-effective solution

- The Flex model eliminates space and installation restrictions with the «3-in-1» solution.
- Equipped with an output and manual bypass breaker in standard mode.
- Mimic panel can be rotated to enable the information displayed to be read easily.
- High recharging current option for very long back-up time.

Fast and easy installation

- Easy to configure for retrofit in existing installations.
- Free eRULER online sizing tool to get dimensions and electrical information in advance before installation.
- Quickly get online product documentation by simply inputting the Serial Number

User and environmentally friendly

- 25+ languages available in the mimic panel.
- Ergonomics designed to simplify usage.
- Anticipates eco-regulations and is RoHS compliant.



Example of top-mounted installation.

The solution for

- > SME IT networking / computer rooms
- > Building automation
- > Payment systems
- > Public sector
- > Security control

Certifications



The MASTERYS BC+ FLEX series is certified by TÜV SÜD with regard to product safety (EN 62040-1).

Advantages



Connected services



www.socomec.com/tool

Expert services



www.socomec.com/services

To know more



Learn more about Edge application by watching our videos on YouTube: bit.ly/socomec-youtube

Maximum versatility



Free-standing
Adaptable to the available space



Wall-mounted
Zero floor space



Top-mounted
Easy built-in solution

Technical data

MASTERYS BC+ FLEX					
Sn [kVA]	10	15	20	30	40
Pn [kW]	9	13.5	18	27	36
Input / output 3/1	•	•	•	–	–
Input / output 3/3	•	•	•	•	•
Parallel configuration	up to 6 units				
INPUT					
Rated voltage	3ph + N: 400 V (can be configured 380/415 V)				
Voltage tolerance	240 V to 480 V				
Rated frequency	50/60 Hz ± 10%				
OUTPUT					
Power factor	0.9 (according to IEC / EN 62040-3)				
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)				
Rated frequency	50/60 Hz				
EFFICIENCY (TÜV SÜD VERIFIED)					
Double conversion VFI mode	up to 95 %				
Eco Mode	up to 99 %				
BATTERY					
Technologies	VRLA, NiCd				
Battery type	Normal life				
Configuration	External batteries				
ENVIRONMENT					
Operating ambient temperature	up to +40 °C ⁽²⁾				
UPS CABINET					
Dimensions W x D x H (mm)	442 x 830 x 305				
Weight	79 kg max ⁽¹⁾				
Display	3.5"				
Degree of protection	IP20 (IP21 on demand)				
Colours	metallised grey E150HVR				
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, AS 62040.3				
Environmental	full compliance with the RoHS EU directive				
Product declaration	CE, RCM (E2376)				

(1) According to the model. (2) Conditions apply.

System features

- Dual input mains (30-40 kVA).
- Internal maintenance bypass switch.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Power walk-in ramp for full compatibility with generators.
- Internal normal-life batteries.

Standard communication features

- 3.5" multilanguage graphic display.
- 2 slots for communication options.
- USB port for downloading log file.
- Ethernet port for service purposes.

System options

- 3-phase input without neutral.
- Internal backfeed isolation device.
- Common mains coupling bars.
- TN-C grounding system.
- ACS synchronisation system.
- High capacity battery charger.
- Free-standing kit.
- Top-mounted kit.

Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or TCP.
- PROFIBUS / PROFINET gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT Gateway for Socomec cloud services and SOLIVE UPS mobile app.
- Remote touch-screen panel.

Remote monitoring and cloud services

- LINK-UPS: Socomec 24/7 remote monitoring service connecting your installation to the nearest Socomec Service Centre.
- SOLIVE UPS: mobile app enabling the monitoring of the UPS systems from a smartphone.

MASTERYS BC+

Designed for easy integration and use
from 10 to 160 kVA



The solution for

- > SME IT networking / computer rooms
- > Control rooms
- > Emergency service
- > Payment systems
- > Public sector
- > Security control

Certifications



The MASTERYS BC+ series is certified by TÜV SÜD with regard to product safety (EN 62040-1).

Advantages



A flexible and cost-effective solution

- A compact range of standard product references with a variety of add-on options to adapt to every customer's site.
- Easy to configure for retrofit in existing installations.
- Equipped with manual bypass breaker in standard mode.

Long back-up time engineered-in

- Several optimised choices for standard internal battery configuration.
- Increased internal battery density for reduced footprint and simplified installation.
- Internal basic back-up time available up to 80 kVA, without additional external battery cabinet.
- High recharging current option for very long back-up time.

Embedded digital technology

- Digital Native UPS generation.
- IoT ready device for access to connected services.
- Easy integration in LAN/WAN and virtual environments.

Fast and easy installation

- A wide range of UPS from 10 to 160 kVA with the same performance and functionality.
- Free eRULER online sizing tool to get dimensions and electrical information in advance before installation.
- Tutored UPS installation with eWIRE mobile app.
- Quickly get online product documentation by simply inputting the Serial Number.

Fast delivery

- "Fast track manufacturing" option available for urgent projects or last-minute requirements.
- Fast delivery even for highly customised configurations thanks to easily combined options.

User and environmentally friendly

- 25+ languages available in the mimic panel.
- Ergonomics designed to simplify usage.
- Anticipates eco-regulations and is RoHS compliant.
- Units provided with wheels for easy positioning.

e-WIRE



QR CODE 219 A GB



Connected services



www.socomec.com/tool

Expert services



www.socomec.com/services

System features

- Dual input mains (above 30 kVA).
- Internal maintenance bypass switch.
- Output switch breaker.
- Auxiliary mains switch breaker.
- Backfeed protection: detection circuit.
- Power walk-in ramp for full compatibility with generators (except 10-20 kVA compact).
- Internal normal-life batteries.

Standard communication features

- 3.5" multilanguage graphic display.
- 2 slots for communication options.
- USB port for downloading log file.
- Ethernet port for service purposes.

System options

- 3-phase input without neutral.
- Internal backfeed isolation device.
- Common mains coupling bars.
- TN-C grounding system.
- ACS synchronisation system.
- IP21 degree of protection.
- Long life internal batteries up to 40 kVA.
- High capacity battery charger.

Technical data

MASTERYS BC+											
Sn [kVA]	10	15	20	30	40	60	80	100	120	160	
Pn [kW]	9	13.5	18	27	36	54	72	90	108	144	
Input / output 3/1	•	•	•	-	-	-	-	-	-	-	
Input / output 3/3	•	•	•	•	•	•	•	•	•	•	
Parallel configuration	up to 6 units										
INPUT											
Rated voltage	400 V 3ph+N (3 wire input also available on demand)										
Voltage tolerance	240 V to 480 V										
Rated frequency	50/60 Hz ± 10%										
OUTPUT											
Power factor	0.9 (according to IEC / EN 62040-3)										
Rated voltage	1ph + N: 230 V (can be configured 220/240 V) 3ph + N: 400 V (can be configured 380/415 V)										
Rated frequency	50/60 Hz										
EFFICIENCY (TÜV SÜD VERIFIED)											
Double conversion VFI mode	up to 95%										
Eco Mode	up to 99%										
BATTERY											
Technologies	VRLA, NiCd										
Battery configuration	internal			internal - external				external			
INTERNAL BACK-UP TIME (MINUTES) ⁽¹⁾											
Type B3 compact	22	14	10								-
Type M3 compact	38	24	17								-
Type M4	106	70	46	29	21					-	
Type S4				9	6					-	
Type T6						13	9				-
ENVIRONMENT											
Operating ambient temperature	up to +40 °C ⁽²⁾										
UPS CABINET											
Type B3 - Dimensions W x D x H (mm)	370 x 770 x 1170										-
Type M3 - Dimensions W x D x H (mm)	370 x 770 x 1360										-
Type M4 - Dimensions W x D x H (mm)	444 x 800 x 1400										-
Type M6 - Dimensions W x D x H (mm)								600 x 855 x 1400			-
Type T6 - Dimensions W x D x H (mm)						600 x 910 x 1930			600 x 855 x 1930		
Weight	depends on the number of batteries installed - contact us										
Display	3.5"										
Degree of protection	IP20 (IP21 on demand)										
Colours	metallised grey E150HVR										
STANDARDS											
Safety	IEC/EN 62040-1										
EMC	IEC/EN 62040-2										
Performance	EN 62040-3										
Environmental	full compliance with the RoHS EU directive										
Product declaration	CE, EAC										

(1) Max BUT @ 80% of the load. (2) Conditions apply.

Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or TCP.
- PROFIBUS / PROFINET gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/ SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT Gateway for Socomec cloud services and SOLIVE UPS mobile app.
- Remote touch-screen panel.

Remote monitoring and cloud services

- LINK-UPS: Socomec 24/7 remote monitoring service connecting your installation to the nearest Socomec Service Centre.
- SOLIVE UPS: mobile app enabling the monitoring of the UPS systems from a smartphone.

DELPHYS BC

Reliable, simple and ready-to-use power protection
from 200 to 300 kVA

Prime



The solution for

- > Server rooms
- > Service sector
- > Infrastructure
- > Healthcare sector
- > Light industrial applications

Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



www.socomec.com/services

A complete, cost-effective solution

- Online double conversion mode with an output power factor of 0.9 providing 12% more active power compare to UPS with a power factor of 0.8.
- Dual input mains allows you to manage independent power sources.
- Increased system availability placing two UPS in parallel for 1+1 redundancy.
- Internal manual bypass for easy maintenance without power interruption (1+1 configuration).
- Multilanguage display.

Tailored to your environment

- Saves space with a reduced footprint and optimized cabinet size.
- Low noise level.
- Compact, lightweight and easy to install.
- No neutral required on rectifier input.
- Two-wire battery connection (only +/-).
- Extended battery life and performance with exclusive EBS battery charging management for increased battery life.

DELPHYS MP Elite+

Resilient transformer-based power protection
from 80 to 200 kVA



DELPHYS 121 B 1 CAT

High quality power supply

- Permanent operation in VFI mode (online double conversion).
- Output voltage precision under all load conditions.
- High overload capability to withstand abnormal load conditions.
- A very high short-circuit current capacity which facilitates the selection of protective devices for selectivity in the downstream distribution.
- An isolation transformer installed on the inverter output to ensure complete galvanic isolation between DC circuit and load output. This insulation also provides a separation between the two inputs when they are supplied by different sources.
- Sinusoidal ThdU output voltage < 2 % with linear loads and < 4 % with non-linear loads.

High availability

- Field-proven technology.
- Fault-tolerant architecture with redundancy of basic functions, such as the ventilation system.
- Easy maintainability reduces MTTR thanks to pull-out sub-assemblies and front access all components.
- Accurate diagnostics guarantee power supply to the load.
- Cascade failure prevention for parallel systems.
- Mechanical & electrical robustness for industrial environments.
- Soft start capability (ramp up) of the IGBT inverter allows a good operation even with a genset.
- Specifically designed to be adapted to different industrial environment: high IP protection options, high peak current capability, long back up time...

Cost-effective equipment

- The "clean" IGBT rectifier allows:
 - a high efficiency,
 - a high and constant input power factor,
 - a low THDi.
 These characteristics help to limit the dimensions of upstream network infrastructure.
- Possibility to create new neutral system without additional losses (extra transformer required on by-pass line only).
- High short-circuit capability simplifies downstream protective devices.
- High power density: its small footprint saves space on your premises.
- Mains connection of the rectifier requires only 3 cables (no neutral).
- Battery connection to UPS requires only 2 cables.

User-friendly operation

- A control panel with graphic display for more ergonomic operation.
- An array of "com-slot" plug-in communication interfaces, for upgrading your operating requirements evolution.

Simplified maintenance

- An advanced diagnostic system.
- A remote access device connected to the remote maintenance centre.
- Easy access to subassemblies and components, facilitating tests and reducing maintenance time (MTTR)

The solution for

- > Industry
- > Processes
- > Infrastructure
- > Healthcare
- > Service sector
- > Telecommunications

Advantages



Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



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Standard communication features

- Dry-contact interface (configurable voltage-free contacts)
- 3 slots for communication options

Parallel systems

- Distributed or centralized bypass for parallel architecture up to 6 units.
- Redundant systems ("1+1" and "n+1").
- "2n" architecture with Static Transfer Systems.

Standard electrical features

- Backfeed protection: detection circuit.
- Standard interface:
 - 3 inputs (emergency stop, generating set, battery protection),
 - 4 outputs (general alarm, back-up, bypass, preventative maintenance needs).

Electrical options

- EBS (Expert Battery System)⁽²⁾.
- ACS synchronisation system for 2n architecture.
- Redundant electronic power supplies.
- Hot plug option (increase the power keeping the load supplied in double conversion).
- Long back up time rectifier.

Mechanical options

- Reinforced IP protection degree.
- Dust filters.
- Fan redundancy with failure detection.
- Top entry connection.
- Reinforced IP protection up to IP52.

Communication options

- User-friendly touch-screen multilingual color graphic display.
- MODBUS RTU RS485 or MODBUS TCP.
- PROFIBUS / PROFINET gateway.
- BACnet/IP interface.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.
- IoT gateway for Socomec cloud services and SOLIVE UPS mobile app.
- Additional Com-slot extension.

Technical data

DELPHYS MP Elite+					
Sn [kVA]	80	100	120	160	200
Pn [kW]	72	90	108	144	180
Input/output	3/3				
Parallel configuration	up to 6 units (distributed or centralised bypass)				
INPUT					
Rated voltage	380V - 400V - 415V ⁽¹⁾				
Voltage tolerance	342 to 460V ⁽²⁾				
Rated frequency	50/60Hz				
Frequency tolerance	45 to 65Hz				
Power factor / THDI	0.99 constant / 2.5% without filter				
OUTPUT					
Rated voltage	380V - 400V - 415V (configurable) ⁽¹⁾				
Voltage tolerance	< 1% (static load), ± 2% in 5 ms (dynamic load conditions from 0 to 100%)				
Rated frequency	50/60Hz				
Frequency tolerance	± 0.2%				
Total output voltage distortion - linear load	ThdU <2%				
Total output voltage distortion - non-linear load	ThdU <4%				
Short-circuit current on inverter (100ms)	Up to 3.5 In				
Overload	Up to 150% for 1 minute, 125% for 10 minutes ⁽²⁾				
Crest factor	3:1				
BYPASS					
Rated voltage	380V - 400V - 415V				
Voltage tolerance	± 10% (selectable)				
Rated frequency	50/60Hz				
Frequency tolerance	± 2% (configurable for GenSet compatibility)				
Short-circuit current on by-pass (20ms)	Up to 24 In				
EFFICIENCY					
Online mode	93.5%				
Eco Mode	98%				
ENVIRONMENT					
Operating ambient temperature	from 0 °C up to +40 °C ⁽²⁾ (from 15 °C to 25 °C for maximum battery life)				
Relative humidity	0% - 95% without condensation				
Maximum altitude	1000 m without derating (max. 3000 m)				
Acoustic level at 1 m (ISO 3746)	65 dBA				67 dBA
UPS CABINET					
Dimensions W x D x H	1000 x 800 x 1930 mm				
Weight	740 kg	860 kg	1020 kg		
Degree of protection	IP20 (other IP as option)				
Colours	RAL 9006				
STANDARDS					
Safety	IEC/EN 62040-1, AS 62040.1.1, AS 62040.1.2				
EMC	IEC/EN 62040-2, AS 62040.2				
Product declaration	CE, RCM (E2376)				

(1) Others on demand. (2) Conditions apply.

Remote monitoring and cloud services

- LINK-UPS: Socomec 24/7 remote monitoring service connecting your installation to the nearest Socomec Service Centre
- SOLIVE UPS: mobile app enabling the monitoring of the UPS systems from a smartphone

EMergency CPSS

Secure power supply for emergency systems
from 1.5 to 200 kVA



MODULYS

MASTERYS

DELPHYS

The EMergency CPSS range has been designed to answer your needs in terms of power supply for your safety system.

All our EMergency products are compliant with standard EN 50171.

The EMergency CPSS products are intended to ensure energy supply to emergency escape lighting in the event of mains supply failure. Depending on the local legislation, it may be suitable for energizing other essential safety equipment, such as:

- Electric circuits of automatic fire extinguishing installations.
- Paging systems and signaling safety installations.
- Smoke extraction equipment.
- Carbon monoxide warning systems.
- Special safety installations related to specific buildings, e.g. high-risk areas.

The wide range is suitable for all standard needs. For non-standard requests, our team of experts is on hand to adapt the products to your needs.

The solution for

- > Airports
- > Railways and bus stations
- > Schools and universities
- > Hospitals
- > Shopping centers
- > Cinemas and theatres
- > Museums
- > Public buildings
- > Office buildings
- > Hotels

Compliance with standards



Our dedicated Expert Services for UPS

We offer services to ensure your UPS highest availability:

- > Commissioning
- > On-site intervention
- > Preventive maintenance visits
- > 24-hour call out and rapid on-site repairs
- > Maintenance packages
- > Training



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Standard features

- IP20 metal enclosure compliant with EN60598-1.
- Battery charging: 80% in 12 hours.
- Battery protection against the damage due to a polarity inversion.
- Battery protection against deep discharge.
- Long-life battery with 10-year life expectancy.
- Designed to withstand 120% of the nominal charge during the entire back-up period.
- Specific dry contacts & monitoring for EMergency system.

Options

- Transformer embedded in the UPS enclosure (contact us for further information).
- Connection to downstream IT earthing system.
- Eco mode to reach up to 98% efficiency.
- Other types of battery available.

Standard communication features

- User-friendly 7" touch-screen multilingual colour graphic display.
- Slots for communication options.
- Dry-contact interface (configurable voltage-free contacts).

Communication options

- Dry-contact interface (configurable voltage-free contacts).
- MODBUS RTU RS485 or MODBUS TCP.
- NET VISION: professional WEB/SNMP Ethernet interface for secure UPS monitoring and remote automatic shutdown.
- REMOTE VIEW PRO supervision software.

Technical data

	MODULYS				MASTERYS								DELPHYS		
Sn [kVA]	1.5	3	4.5	6	10	15	20	30	40	60	80	160	200		
Pn [kW]	1.05	2.1	3.2	4.2	9	13.5	18	27	36	54	72	144	180		
Pn according to EN 50171 [kW]	0.87	1.8	2.6	3.5	7.5	11.3	15	22.5	30	45	60	120	150		
Input/output	1/1	1/1	1/1	1/1	3/1 3/3	3/1 3/3	3/1 3/3	3/3	3/3	3/3	3/3	3/3	3/3		
INPUT															
Rated voltage	230 V (1ph+N)				400 V (3ph+N)								400 V 3ph		
Voltage tolerance ⁽¹⁾	± 20 %				240 V to 480 V ⁽¹⁾										
Rated frequency					50 - 60 Hz										
Frequency tolerance					± 10 %										
Power factor / THDI	> 0.98 % / < 6 %				> 0.99 / < 3 %								0.99 / < 3 %		
OUTPUT															
Rated voltage	230 V (1ph+N)				230 V (1ph+N) - 400 V (3ph+N)								400 V		
Voltage tolerance	± 3 %				static load ±1 % dynamic load in accordance with VFI-SS-111										
Rated frequency					50 - 60 Hz										
Frequency tolerance	± 0.1%				± 2 % (configurable from 1 % to 8 %)										
Overload UPS designed @ Pn	110% for 5 min, 130% for 5 sec				125% for 10 min, 150% for 1 min								110% for 10 min, 135% for 1 min		
Crest factor					3:1										
UPS CABINET															
Dimensions W x D x H (mm)	444x795x1000				444x795x1400								700x800x1930		
Maximum weight (kg)	Embedded battery	145	220	275	380	515	-	-	-	-	-	-	-		
	Without battery	-	-	-	-	120	124	127	138	158	201	211	480		
Protection degree					IP 20 (EN 50171)										
Acoustic level (dBA) 1m (ISO 3756)	< 52				< 62								< 68		
BATTERY															
Type	VRLA with 10-year life expectancy														
Standard back-up time at the end of battery life	60/90/120 min ⁽¹⁾														
Charging capability	80 % of back-up time in 12h														
Embedded battery Max BUT (min) ⁽¹⁾	Load 25%	300	300	250	300	280								External battery	
	Load 100%	100	100	100	100	60									
STANDARDS															
CPSS	EN 50171														
Safety	IEC/EN 62040-1														
EMC	IEC/EN 62040-2														
Performance	IEC/EN 62040-3														
Product declaration	CE														

(1) Condition apply

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