





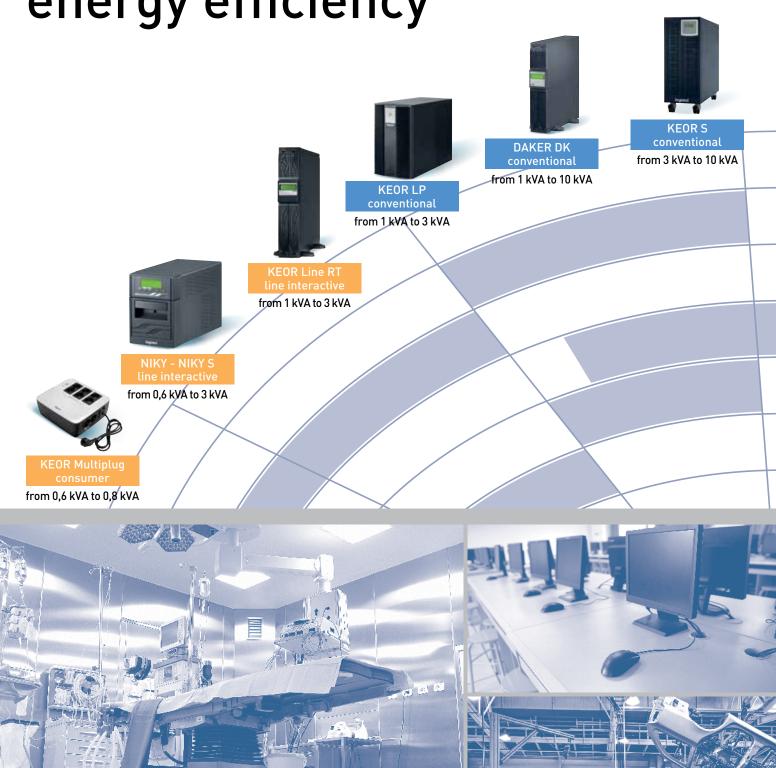
INDEX

General characteristics	page	4
• Consumer and SOHO UPS	page	10
• Conventional UPS	page	16
• Modular UPS	page	48
Communication accessories	page	70
• Customer Services	page	76



UPS

superior performance service continuity energy efficiency





Legrand, world leader in the manufacture of electrical equipment, offers an extensive range

of solutions to meet all the needs of service sector installations, from structured cabling systems for data networks through to control and management of the installation, including trunking and distribution systems.

Incorporating an environmentally-friendly approach to technological development and to address a constantly changing market, Legrand is now offering its new range of UPS and additional functions to ensure maximum continuity of service for all installations.





KEOR HP conventional from 100 kVA to 800 kVA



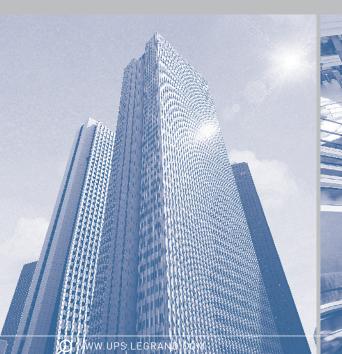
MEGALINE modular from 1,25 kVA to 10 kVA



TRIMOD HE modular from 10 kVA to 60 kVA



ARCHIMOD HE modular from 20 kVA to 120 kVA







High efficiency

The innovative design and high quality of the components used enable our UPS to achieve up to 96% efficiency, leading to significant energy savings.

Advanced technology

The On-line Double Conversion technology ensures provision of a top quality power supply and maximum energy efficiency

Environmentally responsible approach

Our UPS are built with the greatest care with a view to sustainable development.

Moreover, Legrand has developed an innovative testing system which reduces the energy consumed for each device manufactured.



Reliable electronics

The optimum sizing of the power stages and thorough testing of each unit ensure excellent reliability.

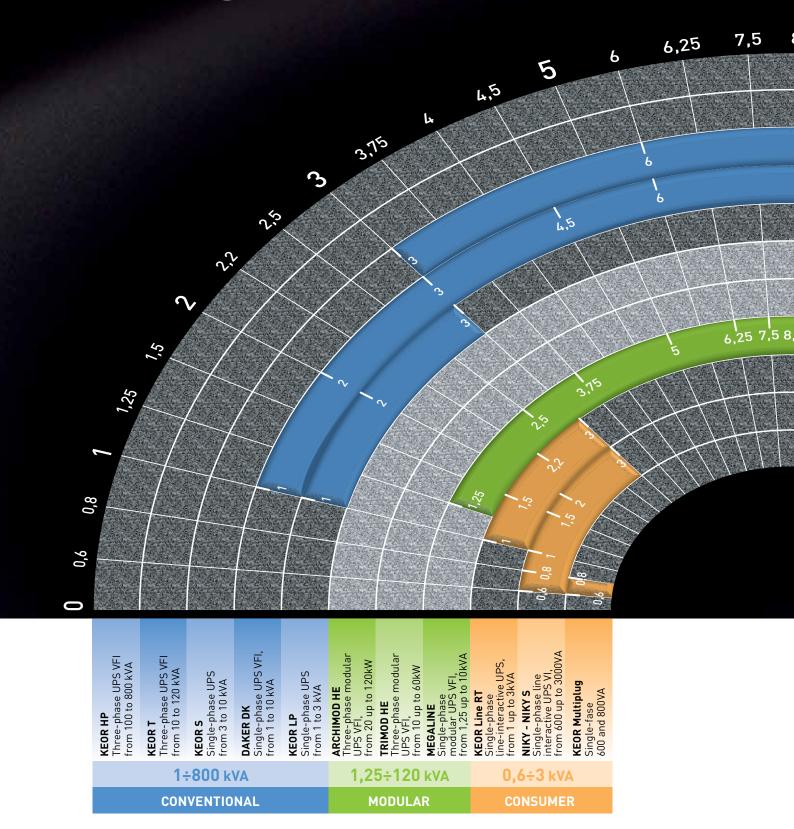
Latest generation components

A careful search for the best electronic components on the market, together with the most up-to-date manufacturing methods, ensure that Legrand UPS use leading-edge technology and provide optimum reliability.

High performance batteries

The batteries used in Legrand UPS are the best on the market. The innovative charging system significantly extends battery life by up to 50%.

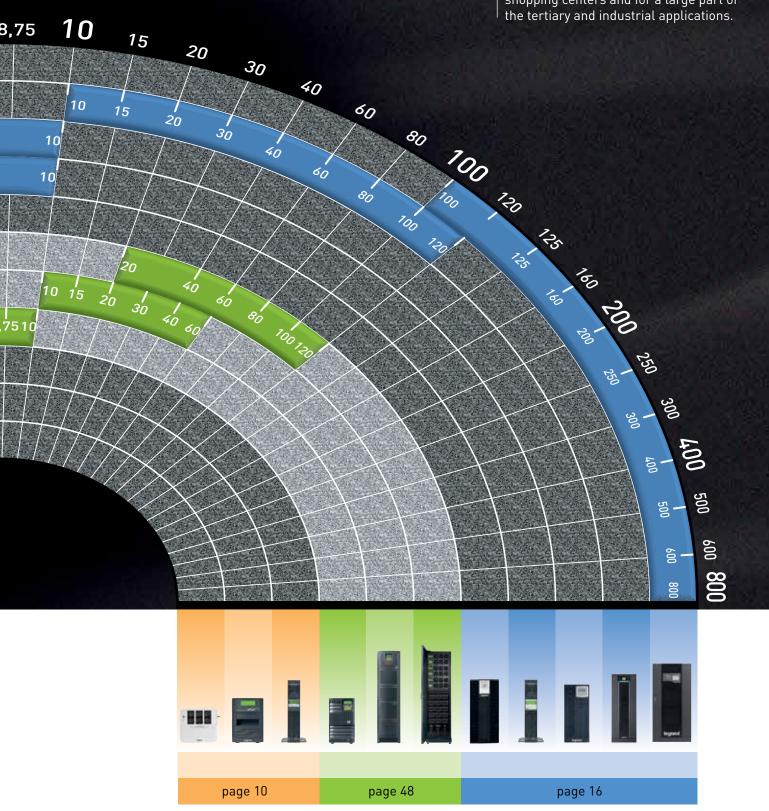
THE UPS RANGE

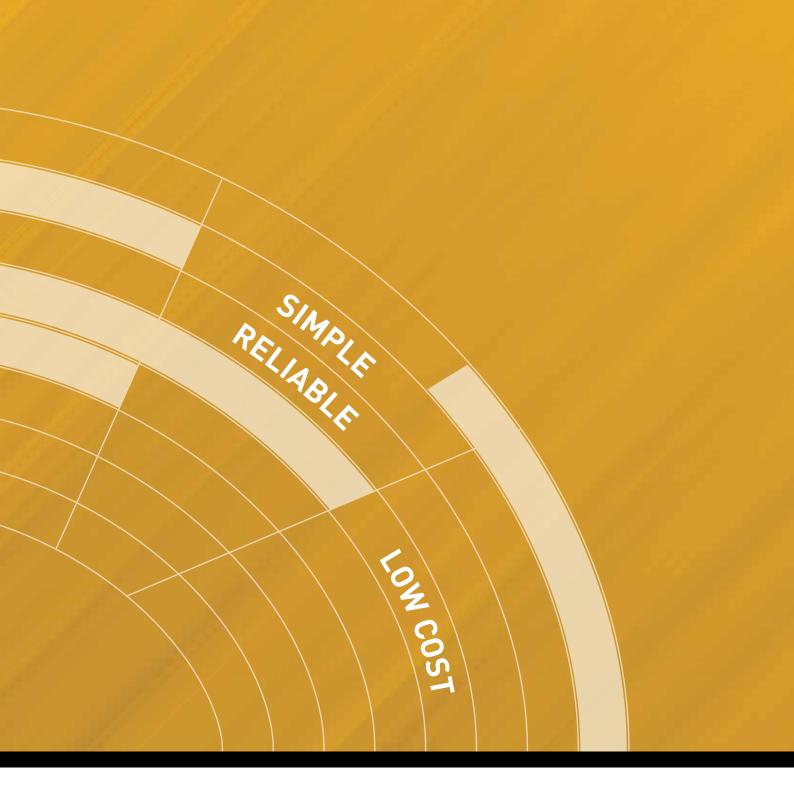


The right solution for **EVERY CONTEXT**

Legrand has a UPS range that it divided into 3 different families. It is an offer suitable for all applications with solutions providing the best performance levels in terms of power and backup time.

Legrand UPS are ideal for Data center, hospital and healthcare buildings, shopping centers and for a large part of the tertiary and industrial applications.





APPLICATION FIELDS







Shops Small office Home Entertainment systems



CONSUMER AND SOHO UPS

up to 3 kVA



KEOR Multiplug Single-phase 600 and 800VA



NIKY
Single-phase
line interactive UPS VI,
from 600 up to 1500VA



NIKY-S Single-phase line interactive UPS VI-SS, from 1 up to 3kVA



KEOR Line RT Single-phase line-interactive UPS, from 1 up to 3kVA

CHARACTERISTICS OF THE RANGE

Compact, easy to install and configure.

With an electronic voltage regulator, an LED indicator and telephone protection, they provide total, reliable protection of the installation.

They provide an excellent quality/price ratio and guarantee of a lasting investment.

KEOR Multiplug

Single phase





UPS

UPS for computers and audio and video equipment Complete protection: discharge, overload, short-circuit, thermal

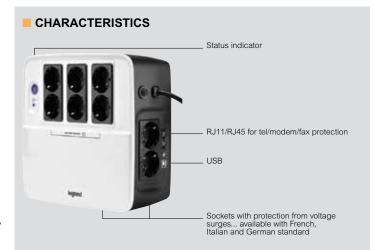
protection
Supply button / LED indicators: provides a visual and audible indication of the UPS status

Reset push-button for the circuit-breaker: for resetting in the event that

the overload protection is activated
Automatic start-up: when there is no mains supply or it is of poor quality,
the UPS continues working using a battery and switches off if the
network breaking time exceeds the back-up time
Quick and easy battery replacement

adion and easy battery replacement							
Pack	Cat. No. Single-phase multi-socket UPS						UPS
		UPS with output sockets 6 protected sockets with protection from voltage surges 2 sockets with protection from voltage surges Input voltage: 180-270 V - 50-60 Hz Output voltage: 230 V~ ± 10% (battery mode) Ambient operating temperature: 0 to 40°C Relative humidity: 0 to 90% Conform to EN 62040-1 and EN 62040-2					
	French standard	German standard	Nominal power (VA)	Active power (W)	Back-up time ⁽¹⁾ (min)	Number of sockets	Commu- nication ports
1	3 100 40	3 100 38	600	360	10 to 15	6 + 2	USB
1	3 100 41	3 100 39	800	480	10 to 15	6 + 2	USB

1: The back-up time values are estimated in minutes and may vary depending on the load characteristics and usage and environmental conditions



WHY INSTALL A UPS?

Protection from electrical network disturbances

UPS protect sensitive equipment (TV, home cinema, telephone, computer, printer, etc.) from electrical network disturbances, and in the event of cuts to the power supply, providing a continuous supply for sensitive equipment connected using an integrated battery limited to the specified back-up time

Selecting the power and calculating the back-up time

In order to select the power and calculate the back-up time, add the power levels in watts stated on your connected sensitive equipment and select the UPS in accordance with the required power protection levels



You can complete a simulation in order to select the right UPS by connecting to the site configurator: www.ups.legrand.com

NIKY

Line Interactive UPS - Single phase VI





3 100 02

3 100 13

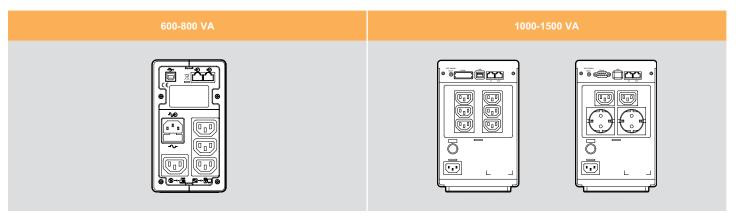
	3 100 02	3 100 13					
Pack	Cat. Nos.	UPS v	vith Ge	erman s	tandard	output	sockets
		Nominal power (VA)	Active power (W)	Backup time (min)	No. of IEC sockets	No. of German standard sockets	Communic. ports
1	3 100 00	600	300	3 to 30	-	1	USB
1	3 100 01	800	400	3 to 30	-	1	USB
					tandard	output	sockets
		+ IEC socket					
		Nominal power (VA)	Active power (W)	Backup time (min)	No. of IEC sockets	No. of German standard sockets	Communic. ports
1	3 100 09	600	300	5 to 30	1	1	USB
1	3 100 10	800	400	5 to 30	1	1	USB
1	3 100 13	1000	600	5 to 30	2	2	RS232
1	3 100 14	1500	900	5 to 30	2	2	RS232
		LIDO					
					socket		ı
		Nominal power (VA)	Active power (W)	Backup time (min)	No. of IEC sockets	No. of German standard sockets	Communic. ports
1	3 100 02	600	300	5 to 30	3	-	USB
1	3 100 03	800	400	5 to 30	3	-	USB
1	3 100 04	1000	600	5 to 30	6	-	USB
1	3 100 05	1500	900	5 to 30	6	-	USB
					elgium s	tandard	socket
		+ IEC	socke	t			
		Nominal power (VA)	Active power (W)	Backup time (min)	No. of IEC sockets	no. of French Belgium standard socket	Communic. ports
1	3 100 22	600	300	5 to 30	1	1	USB
1	3 100 23	800	400	5 to 30	1	1	USB

Cat. Nos.	3 100 00* 3 100 02 3 100 09 3 100 22	3 100 01* 3 100 03 3 100 10 3 100 23	3 100 04 3 100 13 3 100 26	3 100 05 3 100 14 3 100 27		
General characteristics						
Nominal power (VA)	600	800	1000	1500		
Active power (W)	300	400	600	900		
Technology		Line inter	active VI			
Waveform		Pseudo-s	sinusoidal			
Input characteristics						
Input voltage		23	0 V			
Input frequency		50-60 H	z +/- 5%			
Input voltage range		160V-	-290V			
Output characteristics						
Output voltage		230V :	± 10%			
Output frequency (nominal)		50/60 H	z +/-1%			
THD of output voltage		< 3% with	linear load			
Batteries						
Number of batteries	1	1	2	2		
Battery range type/ voltage	12V, 7Ah	12V, 9Ah	12V, 7Ah	12V, 9Ah		
Communication and mana	agement					
Screen and signalling		on and 2 real-time trol	LEDs for	on and 4 real-time atrol		
Telephone protection		RJ11	/RJ45			
Remote control		Avai	lable			
Mechanical characteristic	s					
Dimensions H x W x D (mm)	171x9	5x349	239x14	47x354		
Net weight (kg)	7	7,5	13	16		
Ambient conditions		,				
Ambient operating temperature (°C)		0 to 4	40°C			
Relative humidity (%)						
Noise at 1 m (dBA)						
Certifications						
Reference product standards EN62040-1, EN62040-2, EN62040-3						

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

RS232

RS232



3 100 26 1000

600

3 100 27 1500 900 5 to 30

5 to 30

2

2

2



	NN	

Pack	Cat. Nos.	UPS				
		Nominal power VA	Active power W	Backup time (min)	No. of sockets IEC	Communication ports
1	3 100 06	1000	600	9	6	USB-RS232
1	3 100 20	1500	900	8	6	USB-RS232
1	3 100 07	2000	1200	9	6	USB-RS232
1	3 100 08	3000	1800	8	6	USB-RS232

Cat. Nos.	3 100 06	3 100 20	3 100 07	3 100 08	
General characteristics					
Nominal power (VA)	1000	1500	2000	3000	
Active power (W)	600	900	1200	1800	
Technology		Line intera	ctive VI-SS		
Waveform		Sinus	soidal		
Input characteristics					
Input voltage	230 V ±	12% via ma	ins ± 5% via	a battery	
Input frequency		50-60 Hz	z +/- 3Hz		
Input voltage range		160 V-	-290 V		
Output characteristics					
Output voltage	230 V ± 10%				
Output frequency (nominal)		50/60 Hz	+/-0.2%		
THD of output voltage	< 3% with linear load				
Batteries					
Number of batteries	2	2	4	4	
Battery range type/voltage	12 V, 7 Ah	12 V, 9 Ah	12 V, 7 Ah	12 V, 9 Ah	
Communication and ma	nagement				
Screen and signalling		ee buttons a eal-time con of the			
Telephone protection		RJ 11/	/RJ 45		
Remote control		Avai	lable		
Mechanical characterist	ics				
Dimensions H x W x D (mm)	247x17	′3x369	247x17	73x465	
Net weight (kg)	13	15	22	24	
Ambient conditions					
Ambient operating temperature (°C)					
Relative humidity (%)					
Noise at 1 m (dBA)	< 40				
Certifications					
Reference product standards					

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.





KEOR LINE RT

Line Interactive UPS - Single phase VI-SS

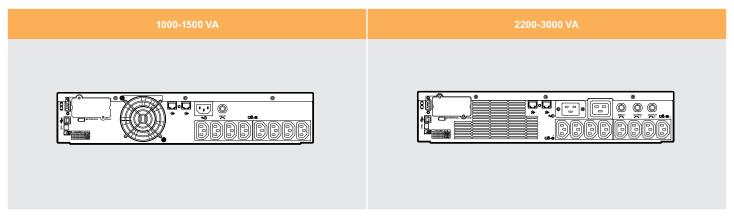


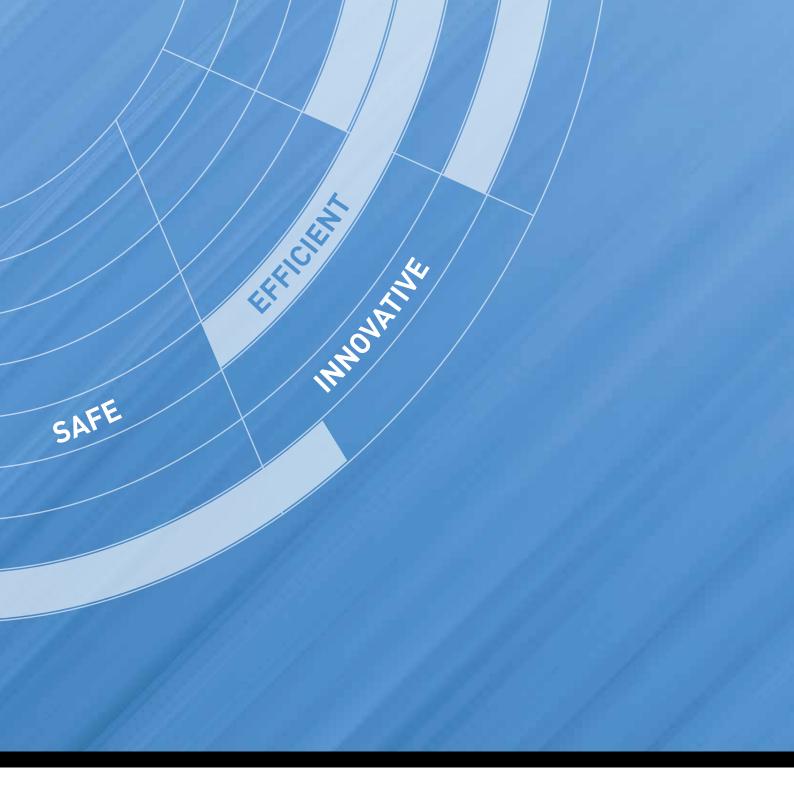
Pack	Cat. Nos.	UPS				
		Nominal power VA	Active power W	Backup time (min)	No. of sockets IEC (10A/16A)	Communication ports
1	3 100 45	1000	900	10	8 / -	USB-RS232
1	3 100 46	1500	1350	8	8 / -	USB-RS232
1	3 100 47	2200	1980	8	8 / 1	USB-RS232
1	3 100 48	3000	2700	8	8 / 1	USB-RS232

Pack	Cat. Nos.	Accessories
		Description
1	3 109 69	Volt-free contact card
1	3 109 52	Rack support bracket kit

Cat. Nos.	3 100 45	3 100 46	3 100 47	3 100 48	
General characteristics					
Nominal power (VA)	1000	1500	2200	3000	
Active power (W)	900	1350	1980	2700	
Technology		Line intera	ctive VI-SS		
Waveform		Sinus	soidal		
Input characteristics					
Input voltage		230 V	± 10 %		
Input frequency		45-6	5 Hz		
Input voltage range		165 V-	-300 V		
Output characteristics					
Output voltage	230 V ± 10 %				
Output frequency (nominal)	50/60 Hz +/-0,5 % autosensing				
THD of output voltage	< 3 % with linear load				
Batteries					
Number of batteries	3	3	6	6	
Battery range type/voltage	12 V, 7 Ah	12 V, 9 Ah	12 V, 7 Ah	12 V, 9 Ah	
Communication and ma	nagement				
Screen and signalling	Three bu real-time	ttons, displa e control of t	ay and three he status of	LEDs for the UPS	
Telephone protection		RJ11/	'RJ45		
Remote control			P Slot		
Mechanical characterist	ics				
Dimensions W x D x H (mm)	440x4	105x88	440x6	50x88	
Net weight (kg)	19	20	34	37	
Ambient conditions					
Ambient operating temperature (°C)	0 to 40°C				
Relative humidity (%)	()÷95 % non	-condensing]	
Noise at 1 m (dBA)					
Certifications					
Reference product standards					

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.





APPLICATION FIELDS



Hospital and healthcare



Office and working areas



Museum



CONVENTIONAL **UPS**

from 0,8 up to 800 kVA



KEOR LP Single-phase UPS from 1 to 3 kVA



DAKER DK Single-phase UPS VFI, from 1 to 10 kVA



KEORS Single-phase UPS from 3 to 10 kVA



KEOR T Three-phase UPS VFI from 10 to 120 kVA



KEOR HP Three-phase UPS VFI from 100 to 800 kVA

CHARACTERISTICS OF THE RANGE

On-line double conversion UPS with DSP microprocessors for precise, constant control of all measurements and of the power factor correction circuit (PFC).

Professional solutions with power up to 800 kVA.

Transformer-free technology for high quality energy output with up to 96% efficiency.

DAKER DK

On-Line double conversion UPS that can be used in both tower and rack configurations

CONVERTIBLE SINGLE PHASE UPS

The main parameters of the system and the status of the UPS, including the battery charge level and faults, are displayed on the LCD screen.

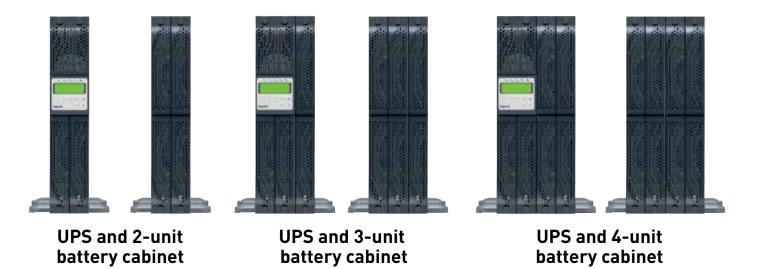
Additional battery cabinets are available to increase the backup time of the UPS. A charger can be added in all battery cabinets for fast, safe charging.





Three standard sizes for power up to 10 kVA

The UPS and additional battery cabinets are available in sizes ranging from 2 to 4 units, depending on the required power and backup time.



Reversible screen

With the reversible screen, the Daker DK UPS can be used in both tower and 19" rack configuration.



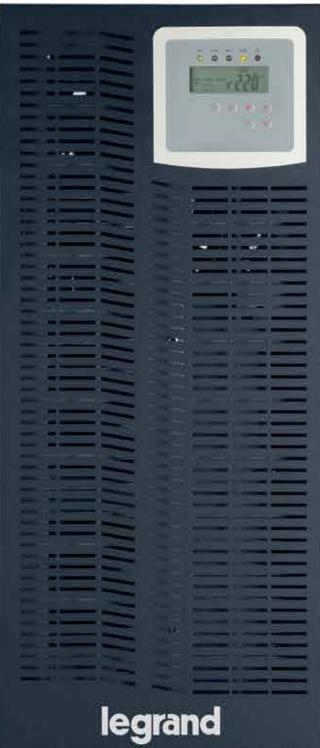
KEORS

ONLINE SINGLE PHASE

The integrated maintenance bypass simplifies the maintenance operations, increases the service continuity and helps to reduce the complexity of the installations.

Easy access to circuit breakers, INPUT/OUTPUT terminals, maintenance bypass and communication port







SINGLE PHASE UPS DESIGNED FOR

INDUSTRIAL APPLICATIONS

Compact and robust, Keor S is the perfect UPS to protect and supply loads in the industrial fields.

Power Range From 3 KVA up to 10KVA

Power factor 0,9¹

High Efficiency up to 94%

Built in paralleling feature up to 4 units ²

Built in Back Feed Protection

Protection Degree IP31

Long back up time availability

Integrated maintenance bypass ²

Integrated internal isolation transformer option





User friendly Display



Remote control & Monitoring Supervision



Easy to move

¹0,8 for 3kVA

²Only available for 6 and 10kVA models

KEORT

THREE-PHASE UPS

KEOR T has been designed with advanced technologies and the latest generation components; realized to satisfy both users and installers for operational needs and performance.

These UPS aim to be functional, safe and very easy to install and use.

Legrand has studied the best way to reconcile high-tech performance and ease of use, making user friendly technologically advanced products. KEOR T supplies maximum protection and power quality for any type of IT load, tertiary application, lighting or building.





Easy Installation

- Easy installation guaranteed by front access to all wiring connections.
- Availability of standard configurations with batteries or isolation transformers inside the UPS.
- Designed to easily connect an additional battery cabinet to obtain long back-up time.
- Standard internal backfeed protection which provides easy installation without additional cost in UPS supply switchboard.







0,54 m²

Small Foot Print with Internal Batteries

KEOR T UPS present the only 60 kVA on the market with internal batteries, this saving the cost of the battery cabinet and valuable floor space, and simplifying installation.

Reduction of Total Cost Ownership (TCO)

Thanks to its design features and the high level of efficiency (up to 96% thanks to 3-Level technology), there is a drastic reduction of TCO, even from the installation phase; the key factors that allow you to gain these advantages are:

- Transformerless Design
- Significant reduction in power loss due to 3 level IGBT topology
- Reduced dimensions and power use for air conditioning
- Low Output Total Harmonic Distortion (THDV)



Dual input

KEOR T UPS can be powered from two separate AC supply sources: the dual input configuration can be selected at installation by simply removing a linking connector from its input terminal.



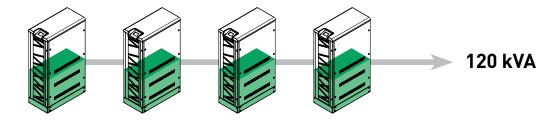




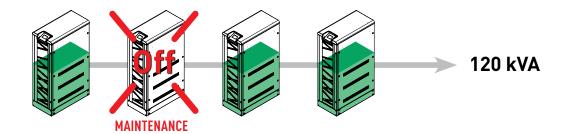
Scalable to increase the service continuity

The parallel connections between the UPS's allow different levels of redundancy hence the maximum continuity of service.

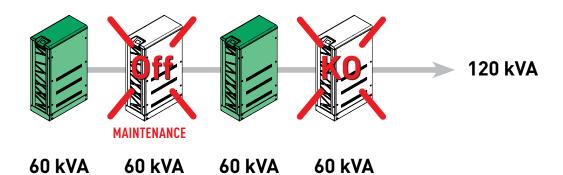
STANDARD WORKING CONDITION



AUTOMATIC LOAD RE-BALANCE IN MAINTENANCE CASE

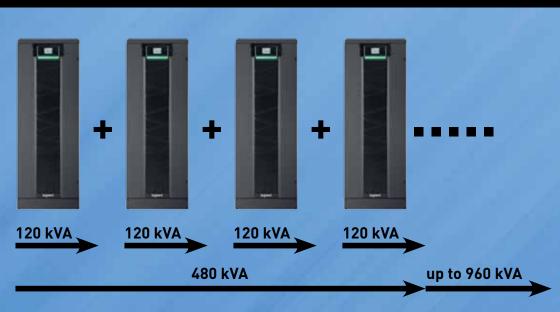


MAXIMUM AUTOMATIC LOAD BALANCE IN CASE OF FAILURE DURING MAINTENANCE



Parallelable to increase the power

Depending on the power demand, it is possible to connect in parallel operation up to 8 units of the same power rating. This allows delivery of total power up to 960 kVA.



KEOR T

EXCLUSIVE CHARACTERISTICS







Internal battery up to 60kVA

With battery pack installed inside the UPS cabinet, NO additional battery cabinets are needed, hence a smaller footprint.

Isolation Transformer Option

Instead of batteries, an isolation transformer can be mounted inside the UPS cabinet upon request.

Safe and fast battery installation

The Battery drawers system allows:

- safe physical transport of battery and fast mounting on site
- safe and easy connection of individual battery strings outside of the cabinet
- lower UPS downtime for battery replacement.



Communication features

- Standard RS232
- ModBus
- Programmable dry contacts
- EPO & GenSet and Remote Monitoring Panel
- USB Converter (optional)
- Internal SNMP solutions (optional)



KEOR HP

THE NEW UPS WITH POWER UP TO 800kVA

The new Three-Phase UPS range is available in three types of cabinet with total power rating up to 4.8 MVA





Compact size with the best balance between footprint and power

Integrated transformer for the galvanic separation between AC/DC side

EASY installation and maintenance

High efficiency up to 95% (TüV certified)

Parallelable up to 4,8MVA

Output power factor 0,9





KEOR HP

EASY installation and maintenance

FLEXIBLE SOLUTIONS

The optimised cooling system enables to position the UPS against the wall and side by side with other equipment without affecting performance. Full front access permits easy installation and fast maintenance operation.



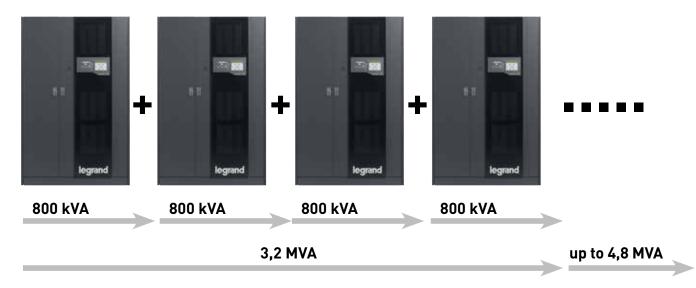


PARALLELABLE

UP 6 UNITS

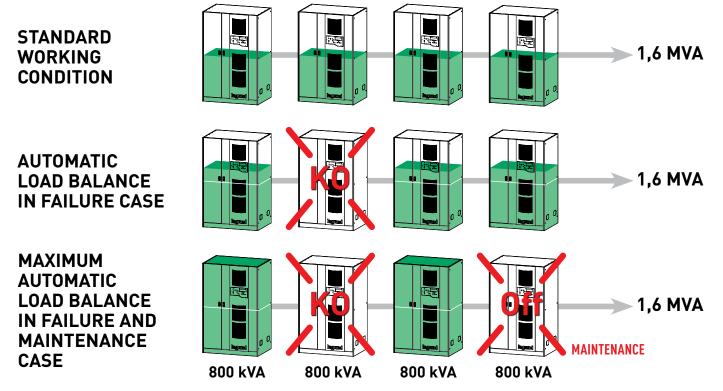
To increase the power

Depending on the power demand, it is possible to connect in parallel operation up to 6 units of the same power rating. This allows delivery of total power up to 4.8 MVA.



To increase the service continuity

The parallel connections between the UPS enables to realize different levels of redundancy and obtain the maximum continuity of service.



KEOR HP

WHEN POWER
TAKES CARE
OF THE

ENVIRONMENTY









HIGH EFFICIENY UP TO 95%

Replacing an existing UPS with the KEOR HP allows immediate power savings for the same operational load.











HIGH TECHNOLOGY (IGBT RECTIFIER)

Thanks to the input circuit with integrated PFC (IGBT rectifier technology), the harmonic distorsion on the input line is significantly reduced (THDi<3%).

The input power factor is almost unity (> 0.99).
These features make it highly compatible with the system upstream of the UPS without requiring additional filtering or over sizing.



LOW ENVIRONMENTAL IMPACT 30% LESS C02 EMISSION

The innovative technology of KEOR HP allows:

- high performances
- reduction in power and cooling consumption
- minimum footprint
- minimum cost of infrastructure and management.







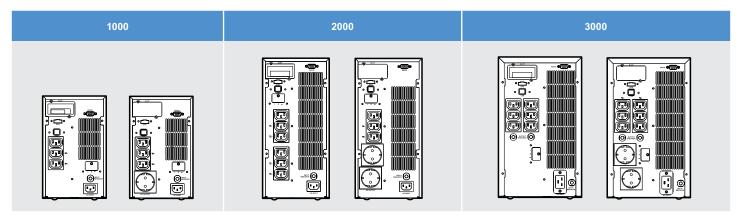
		OF 5 W	ILII ILC	SUCKEIS			
		Nominal power (VA)	Active power (W)	Backup time (min)	No. of sockets IEC 10A	No. of french socket	Weight (kg)
1	3 101 54	1000	900	5	3	-	10
1	3 101 56	2000	1800	5	6	-	17
1	3 101 58	3000	2700	5	6	-	23

		UPS w	UPS with french standard sockets				
		Nominal power (VA)	Active power (W)	Backup time (min)	No. of sockets IEC 10A	No. of french socket	Weight (kg)
1	3 101 55	1000	900	5	3	1	10
1	3 101 57	2000	1800	5	6	2	17
1	3 101 59	3000	2700	5	6	2	23

Pack	Cat. Nos.	Accessories
		Description
1	3 105 98*	Additional battery cabinet for 3 101 54 - 3 101 55
1	3 105 99*	Additional battery cabinet for 3 101 56 - 3 101 57
1	3 106 00*	Additional battery cabinet for 3 101 58 - 3 101 59
1	3 109 58	Additional battery charger for battery cabinet 3 105 98
1	3 109 60	Additional battery charger for battery cabinet 3 105 99
1	3 109 61	Additional battery charger for battery cabinet 3 106 00
1	3 109 53	Bypass

*Battery included

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.





KEOR LP

Conventional UPS - Single phase On-line double conversion VFI

Cat. Nos.	3 101 54 3 101 55	3 101 56 3 101 57	3 101 58 3 101 59	
General characteristics				
Nominal power (VA)	1000	2000	3000	
Active power (W)	900	1800	2700	
Technology	On-line double conversion VFI-SS-111			
Waveform	Sinusoidal			
Architecture		UPS with extendable backup time		
Input characteristics				
Input voltage		230 V		
Input frequency		45-65 Hz ±2 % Autosensing		
Input voltage range		210 V÷240 Vac at 100% load		
Input power factor		› 0,99		
Output characteristics				
Output voltage		230 V ± 1 %		
Efficiency		Up to 90 %		
Output frequency (nominal)		50/60 Hz synchronised		
Peak factor		3:1		
THD of output voltage		< 3% with linear load		
Overload capacity:	<105% ONLINE mode, 121÷150% for 10 sec., 106÷120% for 30 sec., >151% instant transfer to bypass			
Bypass	Automatic, internal, synchron	ised, electromechanical (for overlo	ads and operating problems)	
Batteries				
Backup time extension		Sì		
Battery voltage	24 Vdc	48 Vdc	72 Vdc	
Backup time (min)		5		
Communication and management				
Screen and signalling	Multi-coloured L	ED status indicator, alarms and au	ıdible signalling	
Communication ports	1 RS232 serial port, 1 slot for network interface connection (ex. CS121)			
Emergency Power Off (EPO)		Yes		
Remote control	Softw	vare can be downloaded free of ch	arge	
Mechanical characteristics				
Dimensions (H x W x D) (mm)	236 x 144 x 367	322 x 151 x 444	322 x 189 x 444	
Dimensions of battery cabinet (H x W x D) (mm)	322 x 151 x 444	322 x 151 x 444	322 x 151 x 444	
Battery cabinet Net weight (kg)	31	31	31	
Ambient conditions				
Ambient operating temperature (°C)		0÷40		
Relative humidity (%)		20÷80 non condensing		
Noise at 1 m (dBA)		< 50		
Certifications				
Reference product standards	El	N 62040-1, EN 62040-2, EN 62040-	-3	

Conventional UPS - On-line double conversion VFI







3 107 71



The main parameters of the UPS, including the battery charge level and faults, are displayed on the LCD screen on the front panel. The integrated communication software not only controls the UPS and its switch-off if there is a malfunction, and enables the user to test the main functions remotely, communicate via SNMP/Internet/network adaptor and access the functions of the UPS via the Internet, but can also send the user an SMS if specific events occur.

The internal extension connector enables a WEB/SNMP card or a relay interface to be installed which provides insulated contacts for applications on industrial control panels or remote alarm panels.

If there is an electronic fault, overload, overheating or for scheduled maintenance operations, the automatic or manual (optional) bypass ensures continuity of the power supply for critical loads. A bypass switch is available for maintenance.

Pack	Cat. Nos.	Convertible UPS with batteries			
		Nominal power (VA)	Active power (W)	Backup time (min)	Weight (kg)
1	3 100 50	1000	800	10	16
1	3 100 51	2000	1600	10	29.5
1	3 100 52	3000	2400	8	30
1	3 100 53	4500	4050	6	60
1	3 100 54	6000	5400	4	60

		Convertible UPS without batteries			
		Nominal power (VA)	Active power (W)	Phase configuration	Weight (kg)
1	3 100 56	4500	4050	1/1	25
1	3 100 57	6000	5400	1/1	25
1	3 100 58	10000	9000	1/1	26
1	3 100 59*	10000	9000	3/1	26

*	3_1	version
	J- I	AGI 21011

		Battery cabinet (with batteries)
		Description
1	3 107 69	Battery cabinet for 3 100 50 (12 x 12 V, 7.2 Ah batteries)
1	3 107 70	Battery cabinet for 3 100 51 (12 x 12 V, 7.2 Ah batteries)
1	3 107 71	Battery cabinet for 3 100 52 (12 x 12 V, 9 Ah batteries)
1	3 107 72	Battery cabinet for 3 100 56 and 3 100 57 (20 x 12 V, 7.2 Ah batteries)
1	3 107 66	Battery cabinet for 3 100 58 (20 x 12 V, 9 Ah batteries)

Pack	Cat. Nos.	Battery cabinet (empty)
		Description
1	3 107 50	Battery cabinet for 3 100 50 (for 12 x 12 V, 7.2 Ah batteries)
1	3 107 51	Battery cabinet for 3 100 51 (for 12 x 12 V, 7.2 Ah batteries)
1	3 107 52	Battery cabinet for 3 100 52 (for 12 x 12 V, 9 Ah batteries)
1	3 107 53	Battery cabinet for 3 100 56 and 3 100 57 (for 20 x 12 V, 7.2 Ah batteries)
1	3 107 54	Battery cabinet for 3 100 58 (for 20 x 12 V, 9 Ah batteries)

		Accessories
		Description
1	3 109 59	Additional charger (for Daker DK1000)
1	3 109 60	Additional charger (for Daker DK2000-3000)
1	3 109 54	Additional 1000 W charger (for Daker DK 4500-6000-10000)
1	3 109 52	Rack support bracket kit
1	3 109 53	External manual bypass (for Daker DK 1000-2000-3000)
1	3 109 63	External manual bypass (for Daker DK 4500-6000-10000)
1	3 109 69	Volt-free contact card



DAKER DK

Conventional UPS - On-line double conversion VFI

Cat. Nos.	3 100 50	3 100 51	3 100 52	3 100 53	3 100 56	3 100 54	3 100 57	3 100 58	3 100 59
General characteristics									
Nominal power (VA)	1000	2000	3000	45	500	60	00	10000	10000
Active power (W)	800	1600	2400	_	50		.00	9000	9000
Technology	000	1000			version VFI			0000	0000
Waveform			011 11110		soidal	00 111			
Architecture			Cor		ver and 19" r	ack			
Input characteristics			001	IVEI LIDIO LOVI	voi una 10 1	dore			
Input voltage				23	0 V				380V 3P+N
Input frequency			50		% autosensi	na			300V 31 11
Input voltage range			- 30		B V full load	ng .			277-485V
THD of input current					3%				211-403V
).99				
Input power factor	0 6							. (1)	
Compatibility with gensets	Configl	irable for sy	nchronism i highe	est frequenc	e input and c by ranges, ±	14%	encies, evei	n for the	
Output characteristics									
Output voltage		230 V ± 1%							
Output frequency (nominal)			50/60 Hz (c	onfigurable	via LCD par	nel) +/- 0.1%	, 0		
Peak factor				1	:3				
THD of output voltage	< 3% with linear load								
Output voltage tolerance	± 1%								
Bypass	Automatic bypass and optional external manual bypass								
Batteries			.•.	1		1			
Backup time extension				Ye	es				
Number of batteries	3	6	6	20	-	20	-	-	
Battery range type/voltage	12 V 7.2 Ah	12 V 7.2 Ah	12 V 9 Ah	12 V 5 Ah	-	12 V 5 Ah	-	-	
Backup time (min)	10	10	8	6	-	4	-	-	
Communication and management					'			'	
Screen and signalling					EDs for real- in paramete				
Communication ports	RS232 a	nd USB ser	ial ports		RS	232 serial p	orts		
Remote control			'	Avai	lable	'			
Connector for network interface					MP				
Back feed protection				Ve	es				
Emergency power off (EPO)				•	es				
Mechanical characteristics									
Dimensions (H x W x D) (mm)	440x88 (2U) x405	440x88 (2U) x650	440x88 (2U) x650	440x176 (4U) x680	440x88 (2U) x680	440x176 (4U) x680	440x88 (2U) x680	440x132	(3U) x680
Net weight (kg)	16	29.5	30	60	25*	60	25*	2	6*
Dimensions of battery cabinet H x W x D (mm)	440x176 (4U) x405	440x88 (2U) x650	440x88 (2U) x650	-	440x132 (3U) x680	-	440x132 (3U) x680	440x132	(3U) x680
Ambient conditions	, ,	, , , , , , , , , , , , , , , , , , , ,	, , , , , , , , , , , , , , , , , , , ,		, , , , , , ,		, , , , , , , ,		
Operating temperature (°C)				0 ÷ 4	40°C				
Protection index									
Relative humidity (%)	20 to 80%								
Noise at 1 m (dBA)					50				
Heat dissipation (BTU/h)	490	654	818		82	1310		16	36
Certifications	.50	331	210			.510		10	
Reference product standards EN 62040-1, EN 62040-2, EN 62040-3									

^{*} Weight without batteries

Configurations





	1000 VA 2 cabinets	3000 VA 3 cabinets	6000 VA 2 cabinets	10000 VA 2 cabinets
	L 2U + 4U	L 2U +2 U + 2U	L 2U + 3U	L 3U + 3U
TOWER version				



	1000 VA 2 cabinets	3000 VA 3 cabinets	6000 VA 2 cabinets	10000 VA 2 cabinets
	H 6U (264mm)	H 6U (264mm)	H 5U (320 mm)	H 6U (264mm)
RACK version				



DAKER DK

Long backup time table

Model	Power	Backup time	Dimensions and number of cabinets H x W x D (mm)	Cat. Nos.
		10'	440 x 88 x 405	3 100 50
		1h 22'	440 x 88 x 405 + 440 x176 x 405	3 100 50 + 3 107 69
	1000 VA	2h 44'	440 x 88 x 405 + 440x176 x 405 (x2)	3 100 50 + 3 107 69 (x2)
		4h 22'	440 x 88 x 405 + 440 x176 x 405 (x3)	3 100 50 + 3 107 69 (x3)
		5h 52'	440 x 88 x 405 + 440 x 176 x 405 (x4)	3 100 50 + 3 107 69 (x4)
		10'	440 x 88 x 650	3 100 51
		39'w	440 x 88 x 650 (x2)	3 100 51 + 3 107 70
	2000 VA	1h 22'	440 x 88 x 650 (x3)	3 100 51 + 3 107 70 (x2)
		1h 57'	440 x 88 x 650 (x4)	3 100 51 + 3 107 70 (x3)
		2h 44'	440 x 88 x 650 (x5)	3 100 51 + 3 107 70 (x4)
		8'	440 x 88 x 650	3 100 52
Dalas DK		34'	440 x 88 x 650 (x2)	3 100 52 + 3 107 71
Daker DK	3000 VA	1h 6'	440 x 88 x 650 (x3)	3 100 52 + 3 107 71 (x2)
		1h 33'	440 x 88 x 650 (x4)	3 100 52 + 3 107 71 (x3)
		2h 3'	440 x 88 x 650 (x5)	3 100 52 + 3 107 71 (x4)
		10'	440 x 88 x 650 + 440 x 132 x 680	3 100 57 + 3 107 72
	6000 VA	29'	440 x 88 x 650 + 440 x 132 x 680 (x2)	3 100 57 + 3 107 72 (x2)
		49'	440 x 88 x 650 + 440 x 132 x 680 (x3)	3 100 57 + 3 107 72 (x3)
		1h 11'	440 x 88 x 650 + 440x132x680 (x4)	3 100 57 + 3 107 72 (x4)
		7'	440 x 132 x 650 + 440 x 132 x 680	3 100 58 + 3 107 66
		18'	440 x132x650 + 440 x 132 x 680 (x2)	3 100 58 + 3 107 66 (x2)
	10000 VA	29'	440 x132x650 + 440 x 132 x 680 (x3)	3 100 58 + 3 107 66 (x3)
		42'	440 x 132 x 650 + 440 x 132 x 680 (x4)	3 100 58 + 3 107 66 (x4)
		56'	440 x 132 x 650 + 440 x 132 x 680 (x5)	3 100 58 + 3 107 66 (x5)
		7'	440 x 132 x 650 + 440 x 132 x 680	3 100 59 + 3 107 66
D. L. DIC		18'	440 x132x650 + 440 x 132 x 680 (x2)	3 100 59 + 3 107 66 (x2)
Daker DK 3 - 1	10000 VA	29'	440 x132x650 + 440 x 132 x 680 (x3)	3 100 59 + 3 107 66 (x3)
J - 1		42'	440 x 132 x 650 + 440 x 132 x 680 (x4)	3 100 59 + 3 107 66 (x4)
		56'	440 x 132 x 650 + 440 x 132 x 680 (x5)	3 100 59 + 3 107 66 (x5)





3 101 21	3 107 41

Pack	Cat. Nos.	Single-phase UPS				
		Nominal power (VA)	Active power (W)	Backup time (min)	Net weight (kg)	
1	3 101 21	3000	2400	10	53	
1	3 101 22	3000	2400	27	75	
1	3 101 23	3000	2400	50	97	
1	3 101 28	6000	5400	22	106	
1	3 101 31	10000	9000	10	114	

		Single-phas	se UPS with	isolation t	ransforme
		Nominal power (VA)	Active power (W)	Backup time (min)	Net weight (kg)
1	3 101 25	3000	2400	10	85
1	3 101 29	6000	5400	0	100
1	3 101 35	10000	9000	0	126

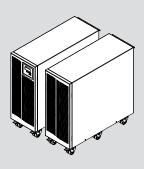
		Battery cabinet
		Description
1	3 107 40	Empty battery cabinet
1	3 107 41	Battery cabinet with 2x6x12 Ah (for KEOR S 3000)
1	3 107 42	Battery cabinet with 3x6x12 Ah (for KEOR S 3000)
1	3 107 43	Battery cabinet with 6x6x12 Ah (for KEOR S 3000)
1	3 107 44	Battery cabinet with 20x12 Ah (for KEOR S 6000-10000)
1	3 107 45	Battery cabinet with 2x20x12 Ah (for KEOR S 6000-10000)

		Accessories
		Description
1	3 109 61	Battery charger for additional battery cabinet (for 3 107 41 - 3 107 42 - 3 107 43)
1	3 109 54	Battery charger for additional battery cabinet (for 3 107 44 - 3 107 45)

■ UPS with internal batteries backup time up to 50 min for 3 kVA



■ UPS for long autonomy with additional battery cabinet



■ UPS with isolation transformer built in



Rear pannel



Long backup time table

Power	UPS	Battery cabinet	Back up time (min.)
6000	3 101 28	3 107 44	55
6000	3 101 28	3 107 45	85
10000	3 101 31	3 107 44	27
10000	3 101 31	3 107 45	50
6000	3 101 29	3 107 45	55
6000	3 101 29	3 107 44	22
10000	3 101 35	3 107 44	10
10000	3 101 35	3 107 45	27



KEORS

Conventional UPS - Single-phase On-line double conversion

Model.	KEOR S 3kVA	KEOR S 6kVA	KEOR S 10kVA		
General characteristics					
Nominal power (VA)	3000	6000	10000		
Active power (W)	2400	5400	9000		
Technology		On-line double conversion			
Waveform		Sinusoidal			
Architecture		conventional UPS			
Input characteristics					
Input voltage		220V-230V-240V			
Input frequency		45-65 Hz			
Input voltage range	160V-288V	195V-	280 V		
THD of input current		6%			
Input power factor		> 0,99			
Output characteristics					
Output voltage	220V/230V/240V Adjustable from Front Panel				
Output frequency (nominal)	50 /60 H	Iz Adjustable from Front Panel +/	- 0,05%		
Crest factor	2,5:1				
THD of output voltage	< 1,5% with linear load < 3% with non-linear load				
Overload capacity	10 seconds at 125%-150% 30 seconds at 106%-120%	120 seconds a 30 seconds a	at 100%-120% t 121%-150%		
Efficiency in Eco mode		98%			
Bypass	-	Automatic bypass and ma	nual maintenance bypass		
Batteries					
Backup time extension		Yes			
Battery type		VRLA - AGM			
Communication and management					
LCD Display		Available			
Communication Port	1 RS232 serial ports, 1 USB port, modbus and SNMP optional	1 RS232 serial ports, mod	dbus and SNMP optional		
Remote Management		Available			
Physical characteristics					
Dimensions H x W x D (mm)		716 x 275 x 776			
Dimensions battery cabinet H x W x D (mm)	716 x 275 x 776				
Ambient conditions					
Operating temperature (°C)		0÷40			
Relative humidity (%)	20÷80 non condensing				
Protection index	IP31				
Noise at 1 m (dBA)	< 50				
Compliance					
Reference product standards	EN	l 62040-1, EN 62040-2, EN 62040	-3		









KEOR T40-60-80 -100

Pack	Cat. Nos.	UPS
		Nominal power kVA
1	3 102 01	10
1	3 102 02	10

3 109 28

60

		Nominal power kVA	Backup time (min.)	Dimensions H x W x D (mm)	Net weight (kg)
1	3 102 01	10	24	1345 x 400 x 800	253
1	3 102 02	10	35	1345 x 400 x 800	283
1	3 102 03	10	56	1650 x 400 x 800	406
1	3 102 05	15	12	1345 x 400 x 800	267
1	3 102 06	15	20	1345 x 400 x 800	297
1	3 102 07	15	33	1650 x 400 x 800	420
1	3 102 09	20	8	1345 x 400 x 800	269
1	3 102 10	20	14	1345 x 400 x 800	299
1	3 102 11	20	36	1650 x 400 x 800	494
1	3 102 13	30	8	1345 x 400 x 800	305
1	3 102 14	30	13	1650 x 400 x 800	428
1	3 102 15	30	20	1650 x 400 x 800	488
1	3 102 17	40	8	1650 x 600 x 900	539
1	3 102 18	40	13	1650 x 600 x 900	598
1	3 102 19	40	22	1650 x 600 x 900	748
1	3 102 21	60	8	1650 x 600 x 900	620
1	3 102 22	60	14	1650 x 600 x 900	770

	UPS empty for internal battery drawers							
	Nominal power kVA	Backup time (min.)	Dimensions H x W x D (mm)	Net weight (kg)				
3 102 23	10	0	1650 x 400 x 800	140				
3 102 24	15	0	1650 x 400 x 800	151				
3 102 25	20	0	1650 x 400 x 800	162				
3 102 26	30	0	1650 x 400 x 800	169				
3 109 27	40	0	1650 x 600 x 900	241				

1650 x 600 x 900

0

Pack	Cat. Nos.	UPS em	pty for exte	ernal battery cabi	net
		Nominal power kVA	Backup time (min.)	Dimensions H x W x D (mm)	Net weight (kg)
1	3 102 00	10	0	1345 x 400 x 800	118
1	3 102 04	15	0	1345 x 400 x 800	132
1	3 102 08	20	0	1345 x 400 x 800	134
1	3 102 12	30	0	1345 x 400 x 800	140
1	3 102 16	40	0	1650 x 600 x 900	255
1	3 102 20	60	0	1650 x 600 x 900	277
1	3 102 27	80	-	1650 x 600 x 800	315
1	3 102 28	100	-	1650 x 600 x 800	350
1	3 102 29	120	_	1650 x 793 x 800	430

		UPS with insulation transformer					
		Nominal power kVA	Backup time (min.)	Dimensions H x W x D (mm)	Net weight (kg)		
1	3 102 30	10	0	1345 x 400 x 800	240		
1	3 102 31	15	0	1345 x 400 x 800	250		
1	3 102 32	20	0	1345 x 400 x 800	255		
1	3 102 33	30	0	1345 x 400 x 800	285		
1	3 102 34	40	0	1650 x 600 x 900	525		
1	3 102 35	60	0	1650 x 600 x 900	575		

		Accessories
		Description
1	3 109 18	Battery cabinet empty (for 60 blocks 55 Ah)
1	3 109 21	Internal cables kit for battery cabinet empty (for 60 blocks 55 Ah)
1	3 109 11	Battery drawers kit for KEOR T 10-30 kVA (60 blocks 7-9 Ah)
1	3 109 12	Battery drawers kit for KEOR T 40-60 kVA (60 blocks 7-9 Ah)
1	3 109 13	Internal battery cables kit for battery drawers KEOR T 10-30 kVA
1	3 109 14	Internal battery cables kit for battery drawers KEOR T 40-60 kVA
1	3 109 15	Parallel kit/UPS (PCB + 5 m cable)
1	3 109 16	Kit for both in & ext battery connections for 1345H

NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

276



KEOR T

Conventional UPS - Three-phase On-line double conversion VFI

Model	KEOR T10	KEOR T15	KEOR T20	KEOR T30	KEOR T40	KEOR T60	KEOR T80	KEOR T100	KEOR T120
General characteristics									
Nominal power (kVA)	10	15	20	30	40	60	80	100	120
Active power (kW)	9	13,5	18	27	36	54	72	90	108
Technology		,	C	n-line doub	le conversio	n VFI-SS-11	1		
Waveform					Sinusoidal				
Architecture			Stand	Alone or Di	stributed Pa	rallel up to 8	3 units		
Input characteristics			0 (0.10	7 110110 01 21	01110410414	· ano. ap to t	J GINEO		
Input voltage				380 40	0, 415 V 3Pł	1+N+PF			
Input frequency				000, 40	45-65 Hz				
Input voltage range (Ph-Ph)			h	alf load 208	-467 / full lo	ad 312-467	\/		
THD of input current					3% at full loa		V		
The of lilput current		O = == f: ==							
Compatibility with diesel generators		Configur	able for syn		n between th gh frequency		output ired	quencies,	
Input power factor					> 0,99				
Output characteristics									
Output voltage			380, 400	, 415 V 3Ph	+N (Adjustal	ole from Fro	nt Panel)		
Efficiency					up to 96%				
Efficiency in Eco mode					up to 98,5%				
Output frequency (nominal)			50 /60 Hz	±0,01% free	run (Adjust	able from F	ront Panel)		
Crest factor					3:1				
THD of output voltage		< 2% (at full linear load)							
Output power factor		0,9							
Output voltage tolerance		± 1%							
Bypass			Built	-in Automat	ic and Maint	enance By-	pass		
Isolation Transformer	Transformerless Design. Optional Internal Isolation Transformer on request								
Batteries									
Backup time extension	Scalable with additional battery cabinets								
Battery type				VRLA - A	GM Mainten	ance-free			
Internal Battery					Yes				
Battery Test				Auto	matic or ma	nual			
Battery Recharge Profile					U (DIN41773				
Communication and management						/			
LCD Display			Touch scree	n led har s	tatus, live sy	nontic view	for real tim	e	<u></u>
Communication Ports					mmable 4 R				
Back Feed Protection					Protection I			,	
Audible Alarm			micorna		alarms and		ariaara		
Net Interface Slot					onal SNMP o				
Emergency Power Off (EPO)				Орш	Yes	Jaiu			
Remote Management					Available				
Physical characteristics					Available				
Dimensions H x W x D (mm)		1345/1650	× 400 × 800		1650 x 6	00 × 900	1650 x 6	600 x 800	1650 x
Dimensions battery cabinet			00 x 800				50 x 800 x 9		793 x 800
H x W x D (mm)		1070 / 0				10.			
Operating temperature (°C)					0÷40				
Relative humidity (%)				20÷95	5% not cond	ensing			
Protection index				20.90	IP20	JIIJIIIY			
Noise at 1 m (dBA)									
Noise at 1 m (dBA)					< 55				
Compliance									

^{* 40-60} kVA

Conventional UPS - Three-phase On-line double conversion VFI





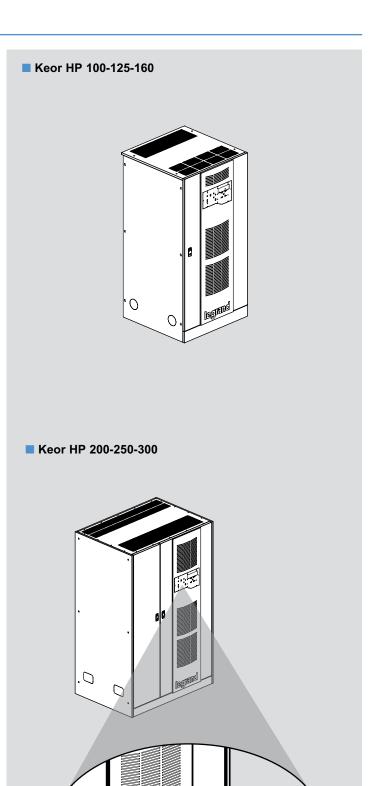
KEOR HP 100

KEOR HP 200

Pack	Model	UPS (without batteries)				
		Nominal power kVA	Active power kW	Dimensions H x W x D (mm)	Net weight (kg)	
1	KEOR HP 100	100	90	1670 x 815 x 825	625	
1	KEOR HP 125	125	112,5	1670 x 815 x 825	660	
1	KEOR HP 160	160	144	1670 x 815 x 825	715	

UPS (without batteries) Dimensions H x W x D (mm) Net weight (kg) Nominal power kVA power kW 1 KEOR HP 200 200 180 1905 x 1220 x 855 970 1 KEOR HP 250 250 225 1905 x 1220 x 855 1090 KEOR HP 300 300 270 1905 x 1220 x 855 1170

	Options
	Description
1	Empty battery cabinet with cables and protection
1	Batteries 5 years / 10 years life time in cabinets or racks
1	Battery switch box with protection: fuses or MCCB
1	Battery monitoring system
1	BY PASS insulation transformer
1	External maintenance by-pass for parallel systems
1	Top entry cable cabinet
1	Remote control panel



DISPLAY

EPO (emergency power off)



KEOR HP 100-125-160-200-250-300

Conventional UPS - Three-phase On-line double conversion VFI

Cat.Nos.	100	125	160	200	250	300	
General characteristics							
Nominal power (kVA)	100	125	160	200	250	300	
Active power (kW)	90	112,5	144	180	225	270	
Technology		-	On-line double cor	version VFI-SS-11	11		
Waveform			Sinus	soidal			
Architecture		Со	nventional UPS, pa	arallelable up to 6	unit		
Input characteristics							
Input voltage			380-415	V 3Ph+N			
Input frequency			50-60 Hz ± 10				
Input voltage range			400 V -20				
THD of input current			< ;				
Compatibility with diesel generators	(Configurable for s		en the input and o	output frequencies	,	
Input power factor			> 0				
Output characteristics				,00			
Output voltage			380, 400, 415 V	3Ph+N selected			
Efficiency			up to				
Output frequency (nominal)			50 /60 Hz sele				
Crest factor			30700112 sele				
THD of output voltage			s <5% (with no				
. 0			•				
Output voltage tolerance		± 1% (with balance load)					
Overload capacity	10 minutes at 125%, 60 seconds at 150%, 10 seconds at 200%						
Efficiency in Eco mode		98%					
Bypass Batteries	Built-in Automatic and Maintenance By-pass						
		Co	valabla with additio	anal battari, aabin	oto		
Backup time extension	Scalable with additional battery cabinets VRLA - AGM Maintenance-free Lead Acid Batteries						
Battery type	Automatic or manual						
Battery test							
Battery Recharge Profile			IU (DIN	141773)			
Communication and management		Г	Tour LED's to show	atatus at a alana	•		
LCD Display			our LED's to show ven interface butto				
Communication Ports			RS232 and US				
Audible Alarm		Acousti	c alarms and war		e delavs		
Configuration Setting			ration by firmware				
Net Interface Slot			-in dry contact PC				
Emergency Power Off (EPO)			-	es			
Remote Management			Avai				
Battery temperature probe				es			
Physical characteristics							
Dimensions H x W x D (mm)		1670 x 815 x 825			1905 x 1220 x 855		
Net Weight (kg)	625	660	715	970	1090	1170	
0 (0)		1400 x 830 (50 b			1400 x 860 (50 ba		
Dimensions battery cabinet H x W x D (mm)		2800 x 830 (100 k			2800 x 860 (100 ba		
Ambient conditions		0. 10			0 . 10		
Operating temperature (°C)		0÷40			0÷40		
Relative humidity (%)	<	95% not condens	sing	< 9	95% not condensir	ng	
Protection index		IP20			IP20		
Noise at 1 m (dBA)		< 60			< 62		
Certifications							
Reference product standards		Е	N 62040-1, EN 62	040-2, EN 62040-	-3		



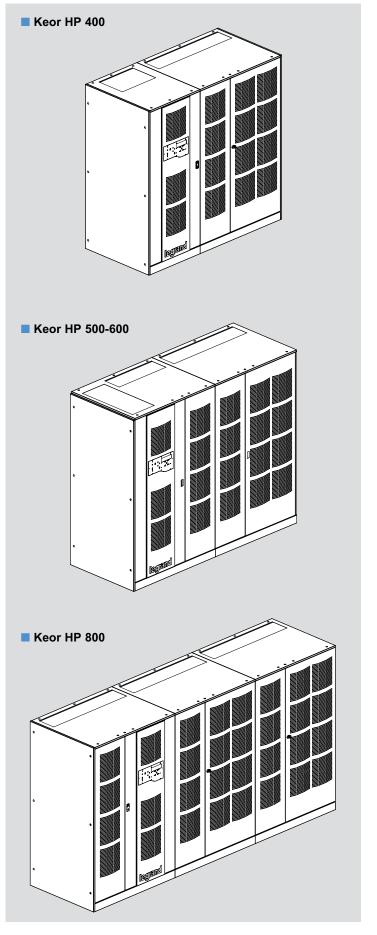
KEOR HP 40

Pack	Model	UPS (wi	thout ba	tteries)	
		Nominal power kVA	Active power kW	Dimensions A X L X P (mm)	Net weight (kg)
1	KEOR HP 400	400	360	1920 x 1990 x 950	1820
1	KEOR HP 500	500	450	2020 x 2440 x 950	2220
1	KEOR HP 600	600	540	2020 x 2440 x 950	2400
1	KEOR HP 800	800	720	1920 x 3640 x 950	3600

Options

Description

Empty battery cabinet with cables and protection
Batteries 5 years / 10 years life time in cabinets or racks
Battery switch box with protection: fuses or MCCB
Battery monitoring system
BY PASS insulation transformer
External maintenance by-pass for parallel systems
Top entry cable cabinet
Remote control panel





KEOR HP 400-500-600-800

Conventional UPS - Three-phase On-line double conversion VFI

Cat.Nos.	400	500	600	800
General characteristics		<u> </u>	<u>'</u>	
Nominal power (kVA)	400	500	600	800
Active power (kW)	360	450	540	720
Technology		On-line double cor	version VFI-SS-111	1
Waveform		Sinus	soidal	
Architecture		Conventional UPS, pa	arallelable up to 6 unit	
Input characteristics		, ,	· ·	
Input voltage		380-415	V 3Ph+N	
Input frequency)% autosensing	
Input voltage range			% / + 15%	
THD of input current			3%	
Compatibility with diesel generators	Configural	ole for synchronism betwe		requencies,
Input power factor			,99	
Output characteristics			,00	
Output voltage		380 400 415 V	3Ph+N selected	
Efficiency		· · · · · · · · · · · · · · · · · · ·	95%	
Output frequency (nominal)		<u> </u>	ected ± 0,001%	
Crest factor			:1	
THD of output voltage			n-linear load)	
Output voltage tolerance			palance load)	
Overload capacity	10 mi	nutes at 125%, 60 second		200%
Efficiency in Eco mode	10 11111		8%	. 200 /0
•		-	Maintenance By-pass	
Bypass Batteries		Dulit-III Automatic and	манценансе Бу-разз	
Backup time extension		Scalable with addition	onal battery cabinets	
'		VRLA - AGM Maintenanc		0
Battery type				S
Battery test			or manual	
Battery Recharge Profile		יווט) טו	J41773)	
Communication and management		Four LED's to show	votatua at a alanga	
LCD Display	Four m	enu-driven interface butto		e LEDs
Communication Ports			SB serial ports	
Audible Alarm		Acoustic alarms and war		
Configuration Setting	Auto	configuration by firmware		gineer
Net Interface Slot		Built-in dry contact PC	B, optional SNMP card	
Emergency Power Off (EPO)		Y	es	
Remote Management		Avai	lable	
Battery temperature probe		Y	es	
Physical characteristics				
Dimensions H x W x D (mm)	1920 x 1990 x 950	2020 x 2440 x 950	2020 x 2440 x 950	1920 x 3640 x 950
Net Weight (kg)	1820	2220	2400	3600
Dimensions battery cabinet H x W x D (mm)	1900 x 2800 x 86	60 (100 batteries)		-
Ambient conditions				
Operating temperature (°C)		0÷	-40	
Relative humidity (%)		<95% not (condensing	
Protection index			20	
Noise at 1 m (dBA)		<	62	
Certifications				
Reference product standards		EN 62040-1 FN 62	040-2, EN 62040-3	



APPLICATION FIELDS







Data center Tertiary Industry



MODULAR UPS

from 1,25 up to 120 kW



MEGALINE Single-phase modular UPS VFI, from 1,25 up to 10kVA



TRIMOD HE Three-phase modular UPS VFI, from 10 up to 60kW



ARCHIMOD HE Three-phase modular UPS VFI, from 20 up to 120kW

CHARACTERISTICS OF THE RANGE

Modular UPS enable the power supply to be sized exactly to requirements, without precluding any future expansion.

They are made up of "standard" modules that can be added to existing configurations to increase their power or backup time.

Their innovative three-phase system, made up of individual single phase modules, provides the highest possible level of redundancy.

MEGALINE

Redundant modular UPS, expandable up to 10 kVA with the best performance levels in their category

AVAILABLE IN THREE VERSIONS:
- SINGLE CABINET
- DOUBLE CABINET
- 19" RACK

All models have a configurable microprocessor control card, an LCD display unit, 1250 VA power modules and battery kits (BK) containing three 9 Ah batteries.

SINGLE PHASE MODULAR UPS

The single cabinet and 19» rack versions distribute powers of 1250 to 5000 VA, and can take up to 4 power modules 4 battery kits. To increase the backup time, additional batteries can be added in dedicated cabinets, which are easy to connect.

The range also includes double cabinets. They consist of 2 cabinets: 1 power cabinet and 1 battery cabinet. The former houses up to eight 1250 VA modules, reaching a maximum power of 10 kVA. The latter can take up to 10 battery kits and an additional charger. To increase the backup time still further, other identical battery cabinets can be added.







CLASS A/B (immunity emission)

All the MegaLine models comply with the most stringent standards in terms of both emission and immunity to electromagnetic interference so they can be used for any application, in either civil or industrial environments

ALARMS AND SIGNALS

An acoustic signal and high-visibility flashing on the backlit front panel ensure that any alarm signal is noticed immediately. The signals can be split into various categories based on their severity.







GREEN & NOT FLASHING -Normal Operation Normal operation, no anomaly

Battery operation, accompanied by a slow, intermittent alarm signal,

which can be silenced

YELLOW & FLASHING -

Battery Mode

RED & FLASHING -Warning (together with an acoustic alarm signal)

- Operation blocked
- Output voltage anomaly

RED & NOT FLASHING -Severe alarm (together with an acoustic alarm signal)

- Failure of one or more power modules
- Incorrect connection of input neutral
- Overload

TRIMOD HE & ARCHIMOD HE

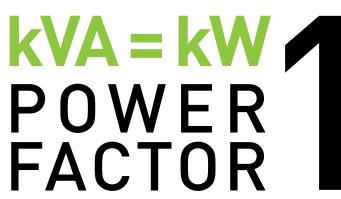
HIGH efficiency **HIGH** performance LOW environmental impact

THE TECHNOLOGY EVOLUTION

Legrand's modular UPS know-how goes back more than 20 years, when the first ever modular UPS were introduced in 1993. Since then, continuous firmware development and research on control and hardware components have led to no stop improvements in system reliability, quality and technical performance.

Continuous research combined with modern production methods has led Legrand to offer the market a cuttingedge, top-performing product: certified efficiency up to 96% and unity power factor.

Combining high density with a structural design that optimises the space, the new TRIMOD HE and ARCHIMOD HE UPS are the ideal solution for advanced energy management and cost containment.





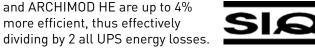
INCREASED POWER

Thanks to their unity power factor the new TRIMOD HE and ARCHIMOD HE UPS guarantee maximum real power; 11% more than competitor products offering 0,9 power factor, fully 25% more than those of 0.8 power factor.



GREATER 96%

TRIMOD HE and ARCHIMOD HE'S 96% efficiency, the highest in the market, is externally certified by the SIQ. The European Code of Conduct requires a minimum value of 92%. TRIMOD HE and ARCHIMOD HE are up to 4% more efficient, thus effectively







TRIMOD HE & ARCHIMOD HE

FLEXIBILITY MODULARITY EXPANSION

Gradual power adaptation

The three-phase UPS are made up of individual single phase modules which are redundant and «selfconfiguring», so that power can be increased quickly and safely.

Optimisation of work

The compact and lightweight power modules (only 8.5 kg) make the UPS easy to transport, install and maintain.



The addiby a on t time cabi back

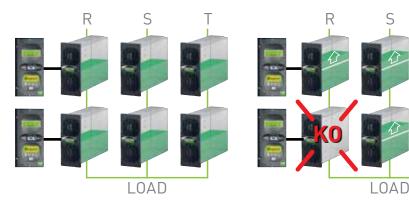
Extending the backup time

The backup time can be extended either by adding battery trays in the same cabinet or by adding another battery cabinet, depending on the power of the UPS and the backup time required. Non-modular compact battery cabinets are also available for extending the backup time to several hours.



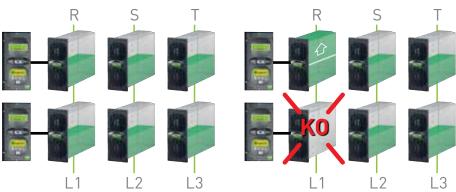
Redundancy on the single phase load

In a three-phase power supply system with single phase loads, if one of the modules fails, there is no loss of power as the power is distributed over the other modules that are still operational.



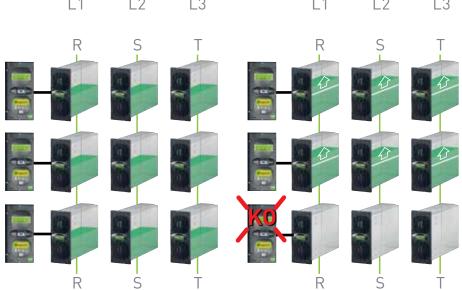
Redundancy on the phases

In a system with three-phase outputs, it is possible to create redundancy on each individual phase. If one of the power modules fails, the other modules for this phase take over from the faulty module.



Redundancy on the control

In UPS that include several control modules, the failure of one of the control modules results in the modules it controls being stopped. However continuity of service is assured by the automatic distribution of the lost power over the other modules.



HIGH LEVELS OF REDUNDANCY

Thanks to the construction technology of the TRIMOD HE and ARCHIMOD HE UPS systems, you can set various redundancy levels so that maximum service continuity is always guaranteed.

TRIMOD HE

HIGH DENSITY UPS

In addition to the standard size, TRIMOD HE offers taller cabinets which allow increased autonomy as a standard configurations. Yet another enhancement to the range that increase performance while occupying the same amount of floor space.

100% compatible

TRIMOD HE was developed to guarantee 100% compatibility hence simplifying servicing of any installed UPS systems.

Enhanced version with the same footprint

The new cabinets are taller but take up the same space in terms of footprint.

0.26 m²





NEW CABINETS

ADVANTAGES NEW SOLUTIONS

MORE

redundancy and scalability

Redundancy on overall power or within each individual phase. Power scalability (versions with internal batteries): for versions from 10 kW to 20 kW for versions from 15 kW to 30 kW



MORE autonomy

Optimising the number of cabinets for longer uptime of the 10-15-20 kW versions.



up to 20 kVA long autonomy

MORE configurations

It is possible to install standard batteries in the 30 kW version.

TRIMOD HE

TRIMOD HE



up to 30 kW standard autonomy

UPS

ARCHIMOD HE



MODULAR ARCHITECTURE UPS

ARCHIMOD HE: expandable, modular architecture UPS, power from 20 to 120 kW, in a 19 rack cabinet.

The system comprises a set of standard, pre-assembled components which simplify and optimise the design and building of critical power infrastructures.

The innovative modular design of these UPS means that the availability of the power can be optimised, the flexibility of the system increased and the total cost of ownership (TCO) reduced.



1 Control module

Equipped with a microprocessor, it manages 3 power modules. If it is used with a power expansion module, it can manage up to 6 power modules, thus increasing the power from 20 to 40 kW. It has a screen and a multifunction keypad for monitoring the operating parameters of the UPS and for configuring numerous functions. It can be connected in parallel to other control modules and used with power expansion modules. The front panel has a backlit status indicator for immediate checking of the operating status of the system and an RS 232 port for connecting a PC for maintenance.

2 Power modules

The power modules (nominal power 6.7 kW) are extremely compact and easy to handle. They have a plug-in hot swap system, making them quick to install and maintain. They work in parallel with all modules that are present to ensure optimum system performance.

3 Power expansion module

This must be used with a control module. It increases the power from 20 to 40 kW and can be used to establish individual redundancy on each phase.

4 Battery modules

Each module contains batteries that can be connected in series, forming separate strings each with a very low safe DC voltage. The compactness and functionality of the single (plug-in) module make it easy to handle, and expansion operations are possible without any modification of the structure of the installed system.

5 Distribution module

This is used to configure the distribution type of the UPS (three-phase/three-phase, three-phase/single phase, single phase/single phase or single phase/three-phase). It has I/O connection blocks, handling and protection devices, and the connection for additional battery cabinets. The power supply can be configured on two separate input sources (main and backup).

6 Cable entry

Special sleeves enable entry and exit of the input and output cables, via the top and via the bottom.



${\bf Modular\ UPS\ -Single-phase\ On-line\ double\ conversion\ \ VFI}$



3 103 60 + 3 107 78







1 ack	Oat. 1103.	Single Ca	ibinet - wi	mout patt	eries
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets
1	3 103 51	1250	875	-	1
1	3 103 53	2500	1750	-	1
1	3 103 55	3750	2625	-	1
1	3 103 57	5000	3500	-	1

		Double cabinet - without batteries							
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets				
1	3 103 60 + 3 108 59	5000	3500	-	2				
1	3 103 63 + 3 108 59	6250	4375	-	2				
1	3 103 66 + 3 108 59	7500	5250	-	2				
1	3 103 69 + 3 108 59	8750	6125	-	2				
1	3 103 72 + 3 108 59	10000	7000	-	2				

Pack	Cat. Nos.	Single cabinet (German standard)								
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)				
1	3 103 50	1250	875	13	1	23,5				
1	3 103 52	2500	1750	13	1	34				
1	3 103 54	3750	2625	13	1	43				
1	3 103 56	5000	3500	13	1	53				

		Double cabinet							
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)			
1	3 103 60 + 3 107 78	5000	3500	13	2	24+50			
1	3 103 63 + 3 107 79	6250	4375	13	2	27+58			
1	3 103 66 + 3 107 80	7500	5250	13	2	29+65			
1	3 103 69 + 3 107 81	8750	6125	13	2	32+73			
1	3 103 72 + 3 107 82	10000	7000	13	2	34+80			

		Single cabinet (French standard)							
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)			
1	3 103 42	1250	875	13	1	23.5			
1	3 103 43	2500	1750	13	1	34			
1	3 103 44	3750	2625	13	1	43			
1	3 103 45	5000	3500	13	1	53			

		Single cabinet (British standard)						
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)		
1	3 103 46	1250	875	13	1	23.5		
1	3 103 47	2500	1750	13	1	34		
1	3 103 48	3750	2625	13	1	43		
1	3 103 49	5000	3500	13	1	53		

		Battery extensions
		Description
1	3 107 75	Cabinet with 1 BK
1	3 107 76	Cabinet with 2 BK
1	3 107 77	Cabinet with 3 BK
1	3 107 78	Cabinet with 4 BK
1	3 107 79	Cabinet with 5 BK
1	3 107 80	Cabinet with 6 BK
1	3 107 81	Cabinet with 7 BK
1	3 107 82	Cabinet with 8 BK
1	3 107 83	Cabinet with 9 BK
1	3 107 84	Cabinet with 10 BK

		Battery extensions with charger
		Description
1	3 107 86	Cabinet with 1 BK with charger
1	3 107 87	Cabinet with 2 BK with charger
1	3 107 88	Cabinet with 3 BK with charger
1	3 107 89	Cabinet with 4 BK with charger
1	3 107 90	Cabinet with 5 BK with charger
1	3 107 91	Cabinet with 6 BK with charger
1	3 107 92	Cabinet with 7 BK with charger
1	3 107 93	Cabinet with 8 BK with charger
1	3 107 94	Cabinet with 9 BK with charger
1	3 107 95	Cabinet with 10 BK with charger

		Accessories
		Description
1	3 108 35	Power module (PW 1250)
1	3 108 57	Single cabinet backup extension (MegaLine BK/1)
1	3 108 58	Double cabinet backup extension (MegaLine BK/2)
1	3 108 59	Empty battery cabinet
1	3 108 60	Y cable for connecting a second additional battery cabinet
1	3 108 61	Battery cabinet extension kit for tower configuration (PL MegaLine cable)
1	3 108 62	Manual bypass for single cabinet (BP/1)
1	3 108 63	Manual bypass for double cabinet (BP/2)
1	3 107 85	Additional charger (CB 36)
1	3 109 72	Relay interface kit



MEGALINE

Modular UPS -Single-phase On-line double conversion VFI

Cat. Nos.	3 103 42 3 103 46	3 103 43 3 103 47	3 103 44 3 103 48	3 103 45 3 103 49	3 103 60 + 3 107 78	3 103 63 + 3 107 79	3 103 66 + 3 107 80	3 103 69 + 3 107 81	3 103 72 -
	3 103 50	3 103 52	3 103 54	3 103 56	3 107 78	3 107 79	3 107 80	3 107 81	3 107 82
		Single	cabinet			Do	ouble cabir	net	
General characteristics	I		I	I	I		I	T	
Nominal power (VA)	1250	2500	3750	5000	5000	6250	7500	8750	10000
Active power (W)	875	1750	2625	3500	3500	4375	5250	6125	7000
Max. expansion (VA)			00				10000		
Max. expansion (W)		35	500			VEL 00 44	7000		
Technology	Man					on VFI-SS-11		:	
Architecture	IVIOC	dular, expand	able, N+X r	edundani wi	iin 1250 vA p	ower cards,	contained ir	n a single cal	oinet
Input characteristics Nominal input voltage					230 V				
				1011/+0	264 V at 10	00/ lood			
Input voltage range Minimum operating voltage					0 V at 50% l				
THD of input current				100	< 3%	Jau			
Input power factor				> 0	.99 at 20% I	nad			
Input frequency					Hz ± 2% au				
Output characteristics				00112/00	112 ± 2 /0 de	itocononig			
Output voltage					230 V ± 1%				
Output frequency				50 Hz/6	60 Hz synch	ronised			
THD of output voltage				< 1% v	vith non-line	ar load			
Waveform					Sinusoidal				
Peak factor					3.5:1				
Efficiency					up to 92%				
Overload capacity			300	% for 1 s – 2	200% for 5 s	- 150% for	30 s		
Backup time									
Backup time (min)					13				
Extension of backup time					Yes				
Equipment	I								
Bypass			(fo	or ovérlóads	and operat	atic and electing problem	ıs)		
Signalling and alarms	Wic	de screen w	ith 4 alphan				ndicator, au	udible signal	ling
Communication ports					oort, 2 logic	<u> </u>			
Communicator UPS software						requesting a			
Protection		Operat	tion stops at n (electrical	t end of bac Sensor for c safety insul	kup time. In orrect neutr lation of the	rush current al switching	limiter on s Iurina batte	ve battery di start-up. ry-based op	J
I/O mains connection	Germa	n standard/t	erminal con	nector with	universal m	ulti-socket o	utlet (Italiar	n/German st	andard)
Mechanical characteristics									
Net weight (kg)	23,5	34	43	53	24 + 50	26,5+57,5		31,5+72,5	34 + 80
Dimensions (H x W x D) (mm)		1	70 x 570				475 x 270 x		
Installed power cards	1	2	3	4	4	5	6	7	8
Free power expansion slots	3	2	1	-	4	3	2	1 -	-
Installed battery kits	1	2	3	4	4	5	6	7	8
Free backup time extension slots Ambient conditions	3	2	1	-	6	5	4	3	2
					0 to 40				
Ambient operating temperature (°C)					0 to 40 IP 21				
Protection index									
Relative humidity (%)					20 to 80 < 40				
Noise at 1 m (dBA) Certifications					<u>\ 40</u>				
Reference product standards				N 62040-1	EN 62040 3	, EN 62040-	.3		
Notoronoo product standards				020-0-1,		, = 1 0 2 0 4 0 -			

Modular UPS -Single-phase On-line double conversion VFI











3 108 62

3 107 85

3 109 73

- Wide input voltage and frequency range
 Operating frequency: 50 or 60 Hz with auto-recognition
 50-60 Hz frequency conversion in both directions
 Extension of the input frequency range for operation with gensets
 Eco mode (energy-saving) operation
 Load waiting mode operation (protection on request)

- Output voltage can be adjusted in 1 volt steps from front panel Low noise
- Internal and external temperature measurement
- Ventilation control according to temperature and load
- Designed for remote emergency stop

Pack	Cat. Nos.	RACKs	RACKs (German standard)								
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)					
1	3 103 79	1250	875	13	1	23.5					
1	3 103 81	2500	1750	13	1	34					
1	3 103 83	3750	2625	13	1	43					
1	3 103 85	5000	3500	13	1	53					

		RACKs (French s	tandard)		
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 34	1250	875	13	1	23.5
1	3 103 35	2500	1750	13	1	34
1	3 103 36	3750	2625	13	1	43
1	3 103 37	5000	3500	13	1	53

		RACKS	(British s	tandard)		
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)
1	3 103 38	1250	875	13	1	23.5
1	3 103 39	2500	1750	13	1	34
1	3 103 40	3750	2625	13	1	43
1	3 103 41	5000	3500	13	1	53

		RACKS - without batteries						
		Nominal power (VA)	Active power (W)	Backup time (min)	Number of cabinets			
1	3 103 80	1250	875	-	1			
1	3 103 82	2500	1750	-	1			
1	3 103 84	3750	2625	-	1			
1	3 103 86	5000	3500	-	1			

Pack	Cat. Nos.	Backup time e	extensions	
		Nominal power (VA)	Additional BK	Expansion (min)
1	3 103 87	1250	1	30
1	3 103 88	1250	2	52
1	3 103 89	1250	3	75
1	3 103 90	2500	1	22
1	3 103 91	2500	2	30
1	3 103 92	3750	1	18

		Battery expansions for Rack UPS
		Description
1	3 107 96	Rack with 1 BK
1	3 107 97	Rack with 2 BK
1	3 107 98	Rack with 3 BK
1	3 107 99	Rack with 4 BK
1	3 108 00	Rack with 1 BK with charger
1	3 108 01	Rack with 2 BK with charger
1	3 108 02	Rack with 3 BK with charger
1	3 108 03	Rack with 4 BK with charger

		Accessories
		Description
1	3 108 35	Power module (PW 1250)
1	3 108 04	Empty battery rack cabinet
1	3 108 62	Manual bypass for single rack (BP/1)
1	3 107 85	Additional charger (CB 36)
1	3 109 72	Relay interface kit
1	3 109 73	Telescopic runner kit for 6U rack



MEGALINE RACK

${\bf Modular\ UPS\ -Single-phase\ On-line\ double\ conversion\ \ VFI}$

On line doppia conv pandable, N+X reducentained in 23 184 V to 264 100 V at < > 0.99 at	3 103 83 3750 2625 000 cersione (VFI-SS-111) indant with 1250 VA pow a single rack 0 V v at 100% load 50% load 3% 20% load 2% autosensing	3 103 85 5000 3500 ver cards,		
1750 50 38 On line doppia conv pandable, N+X redu contained in 23 184 V to 264 100 V at < > 0.99 at	2625 2000 2000 2000 2000 2000 2000 2000	3500		
1750 50 38 On line doppia conv pandable, N+X redu contained in 23 184 V to 264 100 V at < > 0.99 at	2625 2000 2000 2000 2000 2000 2000 2000	3500		
50 38 On line doppia conv pandable, N+X redu contained in 23 184 V to 264 100 V at < > 0.99 at	2000 2000			
On line doppia conv pandable, N+X reducentained in 23 184 V to 264 100 V at < > 0.99 at	versione (VFI-SS-111) Indant with 1250 VA pow a single rack O V V at 100% load 50% load 3% 20% load	ver cards,		
On line doppia conv pandable, N+X redu contained in 23 184 V to 264 100 V at < > 0.99 at	versione (VFI-SS-111) Indant with 1250 VA pow a single rack 10 V V at 100% load 50% load 3% 20% load	ver cards,		
pandable, N+X reducontained in 23 184 V to 264 100 V at < > 0.99 at	ndant with 1250 VA pow a single rack 0 V V at 100% load 50% load 3% 20% load	ver cards,		
23 184 V to 264 100 V at < > 0.99 at	a single rack O V V at 100% load 50% load 3% 20% load	ver cards,		
184 V to 264 \\ 100 V at < > 0.99 at	v at 100% load 50% load 3% 20% load			
184 V to 264 \\ 100 V at < > 0.99 at	v at 100% load 50% load 3% 20% load			
100 V at < > 0.99 at	50% load 3% 20% load			
> 0.99 at	3% 20% load			
> 0.99 at	20% load			
50 Hz/60 Hz ±	2% autosensing			
	/ ± 1%			
50 Hz/60 Hz	synchronised			
< 1% with no	on-linear load			
Sinu	soidal			
3.	5:1			
up to	92%			
300% for 1 s – 200% for 5 s – 150% for 30 s				
	13			
Yes				
Automatic, internally synchronised, static and electromechanical (for overloads and operating problems).				
	ines, multi-coloured sta signalling	tus indicator,		
1 RS 232 port, 2	2 logic level ports			
aded free of charge	(after requesting an act	ivation code)		
Electronic devices for protection against overloads, short-circuits and excess battery discharge. Operation stops at end of backup time. Inrush current limiter on start-up. Sensor for correct neutral switching. Back-feed protection (electrical safety insulation of the input plug during battery-based operation). EPO (emergency power off) contact				
German standard/terminal connector with universal multi-socket outlet (Italian/German standard)				
	·			
	43	53		
	83 x 582			
(Italian/Gern	3	4		
(Italian/Gern		-		
(Italian/Gern 34 266 x 4		4		
(Italian/Gern 34 266 x 4	3	-		
(Italian/Gern 34 266 x 4 2				
34 266 x 4 2 2 2	3			
(Italian/Gern 34 266 x 4 2 2 2 2	3			
(Italian/Gern 34 266 x 4 2 2 2 2 2	3			
(Italian/Gern 34 266 x 4 2 2 2 2 2 In the second se	3 1			
(Italian/Gern 34 266 x 4 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 2-40 221			
(Italian/Gern 34 266 x 4 2 2 2 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	3 1 1-40 0-21 to 80			
nd		2 1 2 3		

MEGALINE

Long backup time table for single cabinet and double cabinet versions

Model	Power	Backup time	Number of cabinets and dimensions W x H x D (mm)	Cat. Nos.
Single cabinet				
	1250 VA	30'	1x (270 x 475 x 570)	3 103 73
	1250 VA	52'	1x (270 x 475 x 570)	3 103 74
	1250 VA	75'	1x (270 x 475 x 570)	3 103 75
	2500 VA	22'	1x (270 x 475 x 570)	3 103 76
	2500 VA	30'	2x (270 x 475 x 570)	3 103 77
	2500 VA	52'	2x (270 x 475 x 570)	3 103 52 + 3 107 78
	2500 VA	63'	2x (270 x 475 x 570)	3 103 52 + 3 107 79
	3750 VA	18'	1x (270 x 475 x 570)	3 103 78
	3750 VA	29'	2x (270 x 475 x 570)	3 103 54 + 3 107 77
	3750 VA	44'	2x (270 x 475 x 570)	3 103 54 + 3 107 79
	3750 VA	67'	2x (270 x 475 x 570)	3 103 54 + 3 107 82
	5000 VA	22'	2x (270 x 475 x 570)	3 103 56 + 3 107 76
	5000 VA	30'	2x (270 x 475 x 570)	3 103 56 + 3 107 78
	5000 VA	46'	2x (270 x 475 x 570)	3 103 56 + 3 107 81
	5000 VA	63'	2x (270 x 475 x 570)	3 103 56 + 3 107 84
Double cabinet				
	5000 VA	22'	2x (270 x 475 x 570)	3 103 60 + 3 107 80
	5000 VA	30'	2x (270 x 475 x 570)	3 103 60 + 3 107 82
	5000 VA	46'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 75
	5000 VA	63'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 78
	6250 VA	20'	2x (270 x 475 x 570)	3 103 63 + 3 107 81
	6250 VA	30'	2x (270 x 475 x 570)	3 103 63 + 3 107 84
	6250 VA	47'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 78
	6250 VA	60'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 81
	7500 VA	18'	2x (270 x 475 x 570)	3 103 66 + 3 107 82
	7500 VA	30'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 76
	7500 VA	48'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 81
	7500 VA	59'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 (x2)
	8750 VA	20'	2x (270 x 475 x 570)	3 103 69 + 3 107 84
	8750 VA	30'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 78
	8750 VA	45'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 83
	8750 VA	61'	4x (270 x 475 x 570)*	3 103 69 + 3 107 84 (x2) + 3 107 78
	10000 VA	22'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 76
	10000 VA	30'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 80
	10000 VA	46'	4x (270 x 475 x 570)*	3 103 72 + 3 107 84 (x2) + 3 107 76
	10000 VA	60'	4x (270 x 475 x 570)*	3 103 72 + 3 107 84 (x2) + 3 107 81

^{*} This configuration requires the use of a Y cable Cat. No. 3 108 60. The number of cables required is equal to the total number of cabinets minus 2.

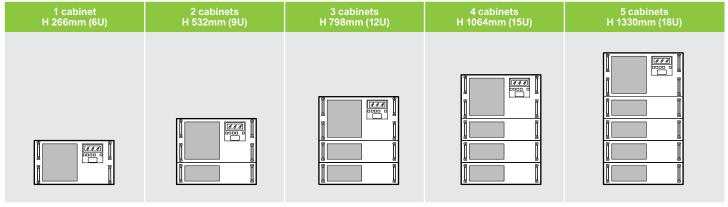
1 cabinet	2 cabinets	3 cabinets	4 cabinets	5 cabinets	
L 270mm	L 540mm	L 810mm	L 1080mm	L 1350mm	
211 2000 G	0000 d		2/1 0000 d		



MEGALINE RACK

Long backup time table

Model	Power	Backup time	Number of cabinets and dimensions W x H x D (mm)	Cat. Nos.
Rack				
	1.250 VA	30'	1 (6U)	3 103 87
	1.250 VA	52'	1 (6U)	3 103 88
	1.250 VA	75'	1 (6U)	3 103 89
	2.500 VA	22'	1 (6U)	3 103 90
	2.500 VA	30'	1 (6U)	3 103 91
	2.500 VA	52'	2 (6U + 3U)	3 103 81 + 3 107 99
	2.500 VA	63'	3 (6U + 2x3U)	3 103 81 + 3 107 99 + 3 107 96
	3.750 VA	18'	1 (6U)	3 103 92
	3.750 VA	29'	2 (6U + 3U)	3 103 83 + 3 107 98
	3.750 VA	44'	3 (6U + 2x3U)	3 103 83 + 3 107 99 + 3 107 96
	3.750 VA	67'	3 (6U + 3x3U)	3 103 83 + 3 107 99 (x2)
	5.000 VA	22'	2 (6U + 3U)	3 103 85 + 3 107 97
	5.000 VA	30'	2 (6U + 2x3U)	3 103 85 + 3 107 99
	5.000 VA	46'	3 (6U + 3x3U)	3 103 85 + 3 107 99 + 3 107 98
	5.000 VA	63'	4 (6U + 4x3U)	3 103 85 + 3 107 97 + 3 107 99 (x2)
			6U= 483 x 266 x 582 3U= 483 x 133x 584	







3 108 7



3 1

Pack	Cat. Nos.	UPS			
		Nominal power kVA	Operating time (min.)	no. and type of cabinet	Weight (kg)
1	3 104 42	10	11	1A	167
1	3 104 43	10	17	1A	223
1	3 104 44	10	35	1A	279
1	3 104 02	10	49	1B	350
1	3 104 43 + 3 107 58	10	68	2A	527
1	3 104 45	15	13	1A	220
1	3 104 46	15	21	1A	279
1	3 104 07	15	29	1B	350
1	3 104 46 + 3 107 60	15	33	2A	413
1	3 104 46 + 3 107 63	15	57	2A	550
1	3 104 47	20	9	1A	220
1	3 104 48	20	14	1A	279
1	3 104 13	20	20	1B	350
1	3 104 48 + 3 107 62	20	35	2A	572
1	3 104 47 + 2 X 3 107 63	20	59	3A	574
1	3 104 17	30	8	1B	325
1	3 104 18 + 3 107 63	30	12	2A	434
1	3 104 19 + 3 107 63	40	8	2A	564
1	3 104 19 + 2 X 3 107 58	40	16	3A	801
1	3 104 19 + 3 X 3 107 59	40	38	4A	439
1	3 104 19 + 4 X 3 107 64	40	60	5A	1663
1	3 104 20 + 2 X 3 107 58	60	9	3A	830
1	3 104 20 + 2 X 3 107 64	60	15	3A	942
1	3 104 20 + 4 X 3 107 63	60	27	5A	1579

*Cabinet A h=1370, Cabinet B h=1650

Pack	Cat. Nos.	Power c	abinet			
		Nominal power kVA	Type of cabinet	Operating time (min.)	NO. of installable battery drawers	Weight (kg)
1	3 103 96	10	Α	0'	12	120
1	3 103 97	10	В	0'	16	155
1	3 104 08	15	Α	0'	12	120
1	3 104 03	15	В	0'	16	155
1	3 104 14	20	Α	0'	12	120
1	3 104 09	20	Α	0'	16	155
1	3 104 18	30	Α	0'	-	146
1	3 104 15	30	В	0'	12	181
1	3 104 19	40	Α	0'	-	146
1	3 104 20	60	Α	0'	-	165

	Power cabinets (empty)							
		NO. of inst. power modules	Type of cabinet	NO. of inst. battery drawers	Type of power module kVA	NO. of phases		
1	3 104 22	3	Α	12	3,4	1-1 / 3-3 / 3-1 / 1-3		
1	3 104 31	3	В	16	3,4	1-1 / 3-3 / 3-1 / 1-3		
1	3 104 23	3	Α	12	5 or 6,7	1-1 / 3-3 / 3-1 / 1-3		
1	3 104 32	6	В	12	3,4	1-1 / 3-3 / 3-1 / 1-3		
1	3 104 33	3	Α	16	5 or 6,7	1-1 / 3-3 / 3-1 / 1-3		
1	3 104 24	6	Α	-	5	3-3		
1	3 104 25	6	Α	-	5	1-1/3-3/3-1/1-3		
1	3 104 34	6	В	12	5	3-3		
1	3 104 26	6	Α	-	6,7	3-3		
1	3 104 27	9	Α	-	6,7	3-3		

		Accessories
		Description
1	3 108 69	3.4 kVA power module
1	3 108 71	5 kVA power module
1	3 108 73	6.7 kVA power module
1	3 108 51	Additional 15 A battery charger module
		Battery accessories
		Description
1	3 108 54	Kit of 4 empty battery drawers
1	3 108 43	Single drawer with 5 7.2Ah batteries (installable in multiples of 4)
1	3 108 45	Single drawer with 5 9Ah batteries (installable in multiples of 4)
1	3 108 75	Single drawer with 5 9Ah long life batteries (installable in multiples of 4)
		Additional empty battery cabinets
		Description
1	3 108 05	16-drawer modular battery cabinet

		Additional battery cabinets with batteries
	Batteries	Description
	7.2 Ah 9 Ah	
1	3 107 55 3 107 60	Modular battery cabinet with 4 drawers
1	3 107 56 3 107 61	Modular battery cabinet with 8 drawers
1	3 107 57 3 107 62	Modular battery cabinet with 12 drawers
1	3 107 58 3 107 63	Modular battery cabinet with 16 drawers
1	3 107 59 3 107 64	Modular battery cabinet with 20 drawers

3 108 06 20-drawer modular battery cabinet

Additional battery cabinets for long-life 94 Ah batteries (empty)

Description

3 108 12 Battery cabinet (20 x 94Ah - WxLxD 1635x600x800 mm)



TRIMOD HE

Modular UPS -Three-phase On-line double conversion VFI

Cat. Nos.	3 103 96 3 103 97	3 104 03 3 104 08	3 104 09 3 104 14	3 104 15* 3 104 18*	3 104 19	3 104 20
General specifications						
Nominal power (kVA)	10	15	20	30	40	60
Active power (kW)	10	15	20	30	40	60
Module power (kVA)	3,4	5	6,7	5	6,7	6,7
Classification		On-	Line double cor	version VFI-SS	-111	
System		Modular,	expandable and	d redundant UP	S system	
Input specifications			·		<u> </u>	
Input voltage	380, 400, 415 3	PH+N+PE (or 22	0, 230, 240 1PH)	380,	400, 415 3PH+I	N+PE
Input frequency		,	45-65 Hz (43	,0 ÷ 68.4 Hz)		
Input voltage range	400V +15%	%/-20% - 230V -	+15%/-20%	4	00V +15%/-209	6
THD input current			< 3% (at	full load)		
Compatibility with power supply units			S			
Input power factor			> 0			
Output Specifications			, ,	,00		
Output voltage	380, 400, 415	3F+N+PE (o 220	0, 230, 240 1F)	380.	400, 415 3F+N	+PE
Efficiency		(Up to		,	
Efficiency in Eco mode			99			
Nominal output frequency	50/	60 Hz selectah	ole by the user ±		+14 % (extend	ed)
Crest factor	007	00112 00100141	3:		±11 70 (OXIONA	04)
Waveform			Sinus			
Output voltage tolerance			±1			
THD output voltage			<u></u>			
Overload capacity		10 m			250/	
Bypass Batteries	Automatic	bypass (static	and electromeci	ianical) and ma	nuai maintenan	ce bypass
Battery module			Dlug	2 play		
,	9 , ,					
Battery series type/voltage						
Operating time	Configurable Smart charge technology. 3-stage advanced cycle					
Battery charger		Smart cha	arge technology	. 3-stage advan	cea cycle	
Communication and management		4 00 1			1 11	
Display and signals		4 x 20-cr LED multi-col	aracter lines, 4 our status indica	menu navigatior ator, alarms and	audio signals	
Communication ports	2 RS232 :	serial ports, 1 lo	gical gate, 5 po	rts with dry con	tacts, 1 slot for	nterfaces
Backfeed protection		NC/NO auxiliary contact				
Emergency Power Off (EPO)	Yes					
Emergency rewer on (Er o)						
Remote management			Avail	able		
			Avail	able		
Remote management		1650 - 1370	Avail	1650 - 1370	1370	1370
Remote management Physical Specifications		1650 - 1370 414	Avail		1370 414	1370 414
Remote management Physical Specifications Height (A-B)			Avail	1650 - 1370		
Remote management Physical Specifications Height (A-B) Width		414	Avail	1650 - 1370 414	414	414
Remote management Physical Specifications Height (A-B) Width Depth	U	414 628		1650 - 1370 414 628	414 628	414 628
Remote management Physical Specifications Height (A-B) Width Depth Installed power modules	U	414 628 3		1650 - 1370 414 628 6	414 628	414 628
Remote management Physical Specifications Height (A-B) Width Depth Installed power modules Installable battery drawers (A-B)	U	414 628 3 p to 16 - Up to		1650 - 1370 414 628 6 Up to 12 - 0	414 628 6	414 628 9
Remote management Physical Specifications Height (A-B) Width Depth Installed power modules Installable battery drawers (A-B) Net weight kg (A-B) Ambient Conditions	U	414 628 3 p to 16 - Up to 1 155 - 120		1650 - 1370 414 628 6 Up to 12 - 0 181 - 146	414 628 6 - 146	414 628 9
Remote management Physical Specifications Height (A-B) Width Depth Installed power modules Installable battery drawers (A-B) Net weight kg (A-B) Ambient Conditions Operating temperature/humidity	U	414 628 3 p to 16 - Up to 1 155 - 120	12	1650 - 1370 414 628 6 Up to 12 - 0 181 - 146	414 628 6 - 146	414 628 9
Remote management Physical Specifications Height (A-B) Width Depth Installed power modules Installable battery drawers (A-B) Net weight kg (A-B) Ambient Conditions Operating temperature/humidity Protection rating	U	414 628 3 p to 16 - Up to 1 155 - 120	12 - 40°C / 0 - 95%	1650 - 1370 414 628 6 Up to 12 - 0 181 - 146	414 628 6 - 146	414 628 9
Remote management Physical Specifications Height (A-B) Width Depth Installed power modules Installable battery drawers (A-B) Net weight kg (A-B) Ambient Conditions Operating temperature/humidity	U	414 628 3 p to 16 - Up to 1 155 - 120	12 - 40°C / 0 - 95% IP:	1650 - 1370 414 628 6 Up to 12 - 0 181 - 146	414 628 6 - 146	414 628 9

 $^{^{\}star}$ Standard configurations with 3-3 distribution (multi IN/OUT conf available on request)

Modular UPS -Three-phase On-line double conversion VFI





3 108 55

3 103 61

3 108 73

Pack	Cat. Nos.	Configur	Configurable cabinets				
		Nominal power (kVA)	Number of battery modules	Number of control modules	Number of phases		
1	3 104 59	20	30	1	1-1/3-3/3-1/1-3		
1	3 104 60	40	24	2	1-1/3-3/3-1/1-3		
1	3 104 61	60	18	3	3-3		
1	3 104 62	80	-	4	3-3		
1	3 104 63	100	-	3	3-3		
1	3 104 64	120	-	3	3-3		

		Additional cabinets for batteries
		Description
1	3 108 18	Empty modular battery cabinet
1	3 107 17	Empty Battery cabinet for long life batteries (21 x 94Ah - WxLxD 1635x600x800 mm)

		Accessories
		Description
1	3 108 73	6.7 kVA power module
1	3 108 76	kit of 3 x long life battery trays
1	3 108 64	Front/rear door
1	3 108 55	Kit of 3 x 9 Ah battery drawers
1	3 108 56	Kit of 3 empty battery drawers
1	3 108 51	Additional charger module
1	3 108 65	Cover for empty battery slot
1	3 108 66*	3 Cover for empty power module slot

^{*} always be used when there are empty slots

Configurations

20

Power: 20 kVA Backup time: 65 min 1 Cabinet 1 Control module 3 Power modules 30 Battery drawers 1 Distribution module



40

Power: 40 kVA Backup time: 21 min 1 Cabinet 2 Control modules 6 Power modules 24 Battery drawers 1 Distribution module



Power: 60 kVA Backup time: 8 min 1 Cabinet 3 Control modules 9 Power modules 18 Battery drawers 1 Distribution module



Power: 80 kVA Backup time: 14 min 2 Cabinets 4 Control modules 12 Power modules 36 Battery drawers 1 Distribution module



Power: 100 kVA
Backup time: 10 min
2 Cabinets
3 Control modules
2 Power expansion modules
15 Power modules 36 Battery drawers 1 Distribution module



120 Power: 120 kVA Backup time: 8 min 2 Cabinets 3 Control modules 3 Power expansion modules 18 Power modules 36 Battery drawers 36 Battery drawers
1 Distribution module

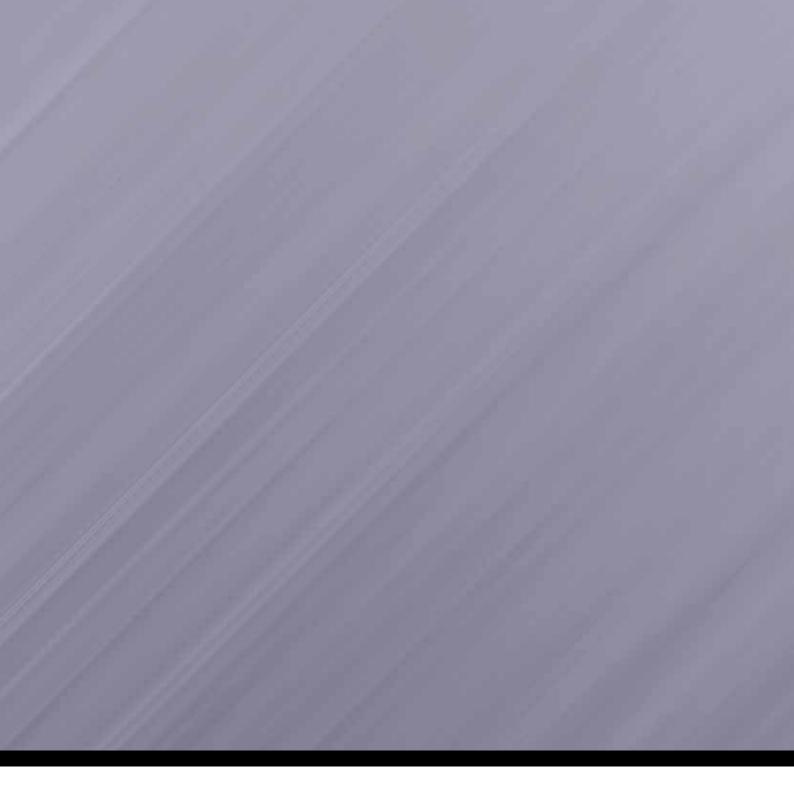




ARCHIMOD HE

$\label{thm:modular UPS -Three-phase On-line double conversion VFI} \\$

Cat. Nos.	3 104 59	3 104 60	3 104 61	3 104 62	3 104 63	3 104 64	
General characteristics							
Nominal power (kVA)	20	40	60	80	100	120	
Active power (kW)	20	40	60	80	100	120	
Module power (kVA)		6.7 per pov	wer module (20 k	kVA with 3 mod	ules), cosφ1	J	
Technology		Or	ı-line double con	version VFI-SS	-111		
System	Modu	ular, expandabl	e and redundan	t system in a sir	ngle cabinet, 19'	'rack	
Hot Swap capacity			y modules can b				
Input characteristics	·			·			
Input voltage	380, 400, 41 (o 220, 23			380, 400, 4	15 3F+N+PE		
Input frequency			45-65 Hz ±2%	% Autosensing			
Input voltage range	230 V + 15° 400 V + 15°			400 V +15	%/-20% 3P		
THD of input current			< 3	3%			
Compatibility with gensets	Config	urable for sync even fo	hronisation betwor the highest fre	veen the input a	and output frequence, \pm 14%	encies,	
Input power factor),99			
Output characteristics							
Output voltage	380, 400, 41 (o 220, 23			380, 400, 4	15 3F+N+PE		
Efficiency			Up to	96%			
Nominal output frequency			50/60 H	Hz ± 0.1			
Peak factor	3.5:1						
Tolerance on output voltage	±1%						
Overload capacity	10 minutes at 113% and 60 seconds at 135%						
Efficiency in Eco mode	99%						
Bypass	Automatic and maintenance bypass						
Batteries							
Battery modules	Th		ıles are designe sial operation is r			et.	
Battery range type/voltage			VRLA - AGI	M / 252 Vdc			
Backup time	Configura	Configurable and extendable, both internally and with additional battery cabinets					
Battery charging		Smart C	harge technolog	y 3-step advan	ced cycle		
Communication and management							
Screen and signalling	4 x 20-char	acter lines, 4 m	enu navigation b	outtons, multi-co	oloured LED sta	tus indicator	
Communication ports	For each co	ontrol module: 2 ports	2 x RS232 serial , 2 slots for SNM	P interfaces (or	evel port, 5 volt- otional)	free contact	
Back-feed protection			N/C + N/O au	xiliary contact			
Emergency stop				es			
Remote control			Avai	lable			
Physical characteristics							
Dimensions (H x W x D) (mm)		ı	2080 x 570	x 912 (42U)		1	
Installable power modules	3	6	9	12	15	18	
Installable battery modules	Up to 30	Up to 24	Up to 18	-	-	-	
Net weight (kg)	205	240	276	272	318	364	
Ambient conditions							
Operating temperature/humidity		0	- 40 °C / 0 - 95%		ng		
Protection index							
Maximum noise audible at 1 m (dBA)			50-	÷65			
Conformity							
Certifications		EN	62040-1, EN 62	:040-2, EN 6204	40-3		



On its own, a UPS is unable to guarantee total protection of the data processing systems it powers. This is due to several factors, amongst which:

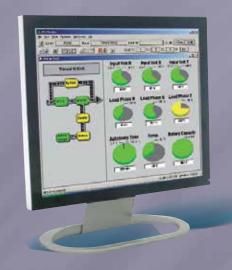
- Unexpected load connections, such as stoves and vacuum cleaners, can cause overloads which annul the protection provided by the UPS.
- Installation in unmanned areas such as EDP rooms and basements or round-the-clock operations can make alarm reception difficult or impossible. This consequently put critical equipment at risk.

Moreover, since the systems can be extremely costly to repair, also owing to the time relevant downtime, it is easy to understand the importance to equip a UPS with a supervision system able to inform the user of the imminent danger and automatically proceed with a series of actions to protect the data and the operating systems. Legrand offers 2 solutions for the UPS supervision according to the type of installation and the management method: sofware solution and harware solution.



COMMUNICATION **ACCESSORIES**

UPS SUPERVISION SYSTEM







CHARACTERISTICS OF THE RANGE

Network interfaces, for remote control of UPS.

Sensors for monitoring the ambient temperature and humidity.

Communication and supervision software for accessing the operating parameters of the UPS, carrying out full diagnostics and configuring specific functions.

Network interfaces



The network interfaces for managing UPS do not require any external software. They include a 32-bit processor, with a proprietary system capable of real-time control of the operation of the UPS and managing numerous events (no power, overload, bypass, problem, etc.) and as a result executing a series of actions, such as:

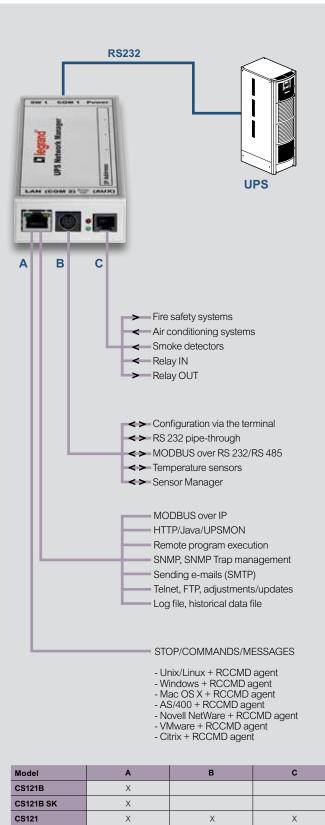
- Memorisation of events in time-stamped log files Regular memorisation of the main operating parameters
- Sending e-mails
- Execution of scheduled actions
- Display of pop-up messages, switch-off, and execution of customised commands on remote computers (the RCCMD software agent must be

- installed on these computers (the RCCMD software agent must installed on these computers) Stopping and restarting the UPS Sending "Wake on LAN (WOL)" signals Support of the SNMP protocol and the main management software (HP OpenView, IBM Tivoli, etc.) Sending SNMP trap messages
- Displaying data and configuration via a web browser (Internet Explorer, Mozilla Firefox, Opera, etc.) or via Telnet
- Updating the firmware using special software, which can be downloaded free of charge on the Internet
- Ethernet 10/100 Base-T (half-duplex and full-duplex) connection with auto-recognition function
- DHCP function
 1 RCCMD licence included

Available in internal and external versions, it is inserted in a dedicated slot in the UPS.

Supply voltage 9 - 30 VDC (power supply included in external versions). The professional and industrial versions have programmable digital contacts and additional RS 232/RS 485 communication ports.

Pack	Cat. Nos.	Network interface
		Description
1	3 108 81	CS121 SK PROFESSIONAL network interface, internal version (card)*
1	3 108 82	CS121B SK STANDARD network interface, internal version (card)*
1	3 108 83	CS121 PROFESSIONAL network interface, external version**
1	3 108 84	CS121B STANDARD network interface, external version**
1	3 109 06	CS121M INDUSTRIAL network interface, external version**
1	3 109 07	CS121M SK INDUSTRIAL network interface, internal version (card)*



Model	A	В	С
CS121B	X		
CS121B SK	X		
CS121	X	X	X
CS121 SK	X	X	X
CS121M	X	X*	X
CS121M SK	X	X*	X

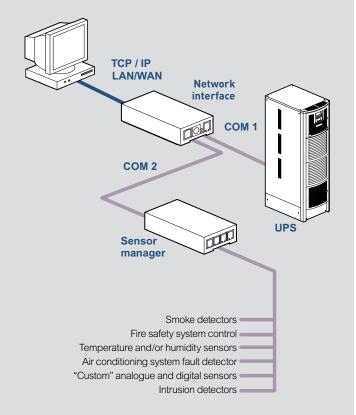
^{*} Only Modbus over RS 485



Sensors and other accessories



Pack	Cat. Nos.	Sensors
		Description
1	3 108 97	SM_T_COM Temperature sensor for direct connection to the COM2 port on the CS121 and CS121 SK interfaces and SiteSwitch 4 (SS4 model only). Cannot be used with SensorManager.
1	3 108 98	SM_T_H_COM Combined temperature and humidity sensor for direct connection to the COM2 port on the CS121 and CS121 SK interfaces and SiteSwitch 4 (SS4 model only). Cannot be used with SensorManager.
1	3 108 99	SensorManager Manager for sensors: connects to the COM2 port on the CS121 and CS121 SK interfaces and SiteSwitch 4 (SS4 model only) and manages up to 8 analogue inputs, 4 digital inputs and 4 digital outputs. The configuration is managed directly by the CS121 interfaces (PROFESSIONAL version), described previously. The "Scale Divisor" and "Off set" configuration functions enable SensorManager to be used with any analogue device (see characteristics). It includes 1 "SM_T" temperature sensor.
1	3 109 00	SM_T Temperature sensor that can only be used with SensorManager. It enables another "SM_T" sensor to be connected using a special connector.
1	3 109 01	SM_T_H Combined temperature and humidity sensor that can only be used with SensorManager.
1	3 109 02	Sensore porta This consists of a reed switch and a magnet. Compatible with CS121, CS121 SK, CS121 M, CS121M SK and SensorManager.
1	3 109 03	SM_flash Flashing illuminated signal. Only compatible with SensorManager.
1	3 109 09	CON_R_AUX Hardware interfaces with 4 digital inputs and 4 relay outputs, whose state will be displayed via LEDs. With hardware interfaces you are able to connect external devices to the network interfaces (professional or industrial), which requirepotential-free relay outputs and/or are installed at most 100 meters away from the connection terminal. It provides 4 AUX channels, which can be defined as in-or rather outputs. The kit are composed by connector cable RJ12 (length 1 metres) and power supply 12V.



■ Sensor manager technical characteristics

Supply voltage (VDC)	9-24
Temperature (°C)	0 ÷ 40
Non-condensing humidity (%)	10 ÷ 80
Analogue inputs (V)	0 ÷ 10
Digital inputs (V)	9 ÷ 24
10 mA digital outputs (V)	9 ÷ 24
Dimensions (WxDxH) (mm)	70 x 126 x 30

■ Sensor technical characteristics

	3 108 97	3 108 98	3 109 00	3 109 01
Supply voltage VDC	9 to 15*	9 to 15*	9 to 24**	9 to 24**
Temperature range °C	-25 to +100	-25 to +100	0 to +100	0 to +100
Relative humidity ± 5% (%)		0 to 100		0 to 100
Connection cable included (m)	1.8	1.8	5	5
Dimensions H x W x D (mm)		27 x 7	0 × 70	

^{*} Direct from the network interface ** Direct from SensorManager

Load management control unit (SiteSwitch)



This device is used to control the energy distribution, enabling all the loads connected to it to be switched on/off individually, via four separate power supply outputs.
For example, if there is a power failure, a UPS can send a command to

switch off the least important loads (such as laser printers) in order to provide a longer backup time for critical equipment.

When the power supply is restored, the UPS can send a command to

switch these loads back on.

The 5 LEDs on the front panel can be used to check the status of the main power supply and of each output.
Supplied with brackets for installation in 19" rack cabinets.

The SiteSwitch 4 is available in two versions: SS4 and SS4 AUX.

Pack	Cat. Nos.	Siteswitch 4
		Description
1	3 109 04	SS4 PROFESSIONAL load management control unit
1	3 109 05	SS4 AUX STANDARD load management control unit

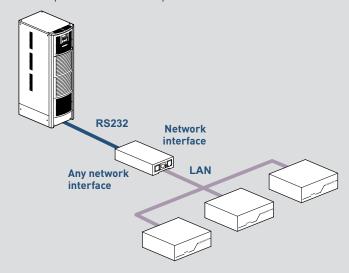
SS4

This is the version with the highest performance. It incorporates a network card with receives, via TCP/IP, the commands sent via the CS121 network interface (any model) of the UPS.

This enables the switching point to be installed close to the loads to be supplied and enables the UPS to control a potentially infinite number of control units.

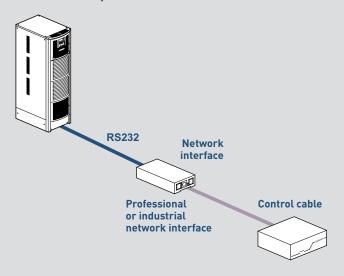
The presence of a CS121 SK network interface inside the SS4 also ensures its standalone operation, i.e. without receiving commands from a UPS: it is in fact possible to send commands to computers (via the RCCMD software), program starts and stops, send e-mails and manage sensors from its web interface.

It is compatible with the SNMP protocol.



SS4 AUX

This is the standard solution. It must be controlled by a UPS equipped with a professional or INDUSTRIAL interface. Ideal solution if it is installed close to the UPS (for example inside the same rack cabinet) and in all cases a maximum of 15 metres away.



■ Technical characteristics

Туре	SS4	SS4 AUX	
Supply voltage	230 V / 16 A	230 V / 16 A	
Output sockets	4 x (230 V / 8A max)	4 x (230 V / 8A max) CS121 (PROFESSIONAL and INDUSTRIAL versions) RJ11 cable approx. 5 m (included)	
Management of output sockets	Internal/CS121 (all models)		
Type of connection for management of output sockets	Ethernet 10/100 Mbit/s		
Dimensions (H x W x D) (mm)	60 x 260 x 180	60 x 260 x 180	



Management software



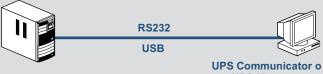


Pack Cat. Nos.		Software			
		Description			
1	downloadable	UPS Communicator Set of applications for real-time control of the operation of the UPS and to ensure the integrity of the systems on the computers supplied by this UPS. Operates with an agent for executing commands on remote computers (RS System).			
1	3 108 79	UPS Management Software Set of applications for real-time control of the operation of the UPS and to ensure the integrity of the systems on the computers supplied by this UPS. Requires the addition of an agent for executing commands on remote computers (RCCMD).			
1	3 108 80	UPS Management Software Set of applications for real-time control of the operation of the UPS and to ensure the integrity of the systems on the computers supplied by this UPS. Requires the addition of an agent for executing commands on remote computers (RCCMD). Includes an RS232/USB converter.			
		RCCMD Software enabling a computer to receive and execute, using the TCP/IP protocol, all the remote commands sent by the management systems of the UPS. An RCCMD licence is necessary for each computer to be controlled. Only the licences are supplied: the software can be downloaded on the Internet (after requesting the activation code).			
1	3 108 85	RCCMD Multi-OS RCCMD licence			
1	3 108 86	RCCMD Pack of multi-OS RCCMD licences			
1	3 108 87	RCCMD Pack of 10 multi-OS RCCMD licences			
1	3 108 88	RCCMD Pack of 25 multi-OS RCCMD licences			
1	3 108 89	RCCMD Pack of 50 multi-OS RCCMD licences			
1	3 108 90	RCCMD RCCMD licence for AS/400 (minimum release: V5R3M0)			
		UNMS "WEB based" application capable of real-time supervision of the status of all UPS, via the management systems of the UPS and the TCP/IP protocol.			
1	3 108 91	UNMS UNMS licence for 25 UPS			
1	3 108 92	UNMS UNMS licence for 50 UPS			
1	3 108 93	UNMS UNMS licence for 150 UPS			

Examples of types of management and communication that can be created with software and hardware.

■ Local protection

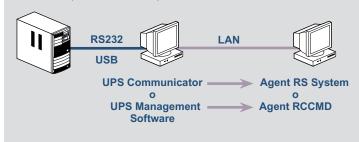
Protects and controls a single station (PC or server) which must be located less than 12 metres away.



UPS Communicator o
UPS Management
Software

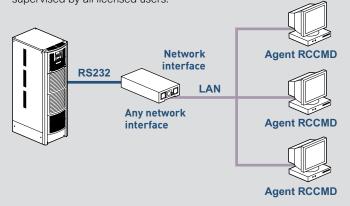
■ Extended local protection

Protects a larger number of stations (PC or server) but they are all controlled by the station directly connected to the UPS.



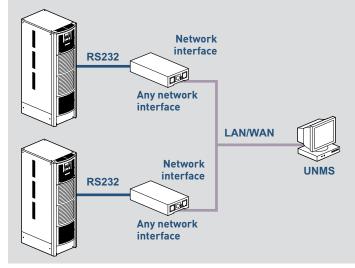
■ Protection via TCP/IP network

Enables control of all the stations that can communicate with the network interface. The management of the system can be supervised by all licensed users.



■ Centralised protection

Using the UNMS supervision software, it is possible to control all the UPS connected to a TCP/IP network.





Reliable

Directly present in more than 70 countries and servicing its products in more than 150 countries worldwide, a team of qualified engineers is available 24/7/365 to support your UPS system to ensure power quality and availability to the most critical loads.

Excellent

Legrand's competitive edge lies in its ability to provide high value-added UPS systems and services for both end users and business partners.

For Legrand, creating value means coming up with solutions for lower energy consumption, but also integrating product design into the overall development process. With around 200 000 catalogue items, the Group also provides all products required for electrical and digital building installations, particularly as integrated systems, finding solutions to fit everyone's needs.

Tailor-made

Legrand offers a complete range of specific solutions and services to meet customer requirements:

- Technical pre-sales support at the project design stage
- Factory acceptance test
- Supervision of installation, testing and commissioning, site acceptance test
- Operator training
- Site audit
- Warranty extension
- Annual maintenance contract
- Fast intervention on emergency call





SITE INSPECTION, INSTALLATION SUPERVISION.

We perform a comprehensive check of the UPS environment to ensure safety and fault-free operation.

Our technical experts give manufacturer's recommendations to the site engineer or electrical contractors, and supervise the UPS installation before load power-up.

SITE TEST, COMMISSIONING.

Our Service Engineers conduct rigorous site tests and full setting-up of the UPS system before going live. They also perform site acceptance tests according to your requirements. Commissioning operations for all UPS are carried out by qualified engineers to guarantee seamless start-up. After the final handing over of the UPS system, a Test and Commissioning report is delivered to you.



We offer on-site training to ensure your equipment's safe and efficient operation.

Troubleshooting courses are also available in our plants for intensive hands-on practice on UPS training equipment.



PREVENTIVE MAINTENANCE

Electronic equipment and power systems, such as UPS, contain life-limited components and parts that must be replaced according to the manufacturer's specifications.

To ensure optimal performance and to protect your critical application from potential downtime, it is crucial to perform

preventive maintenance operations on a regular basis and replace parts when needed. Our Service Contracts include cleaning, IR thermography, measurements, functional tests, event log and power quality analysis, battery health check, hardware and software upgrades, and technical reports. A Preventive Maintenance Plan is one of the most cost-effective actions that can preserve your initial investment and ensure your business continuity.

CORRECTIVE MAINTENANCE, EMERGENCY CALL

In the event of an Emergency Call, our worldwide service network, with engineers and spare-parts stocks strategically located as close as possible to your site, guarantees a fast intervention time with 24/7/365 assistance.

After connecting his laptop to your UPS, very powerful diagnostic software helps our engineer to identify the fault, thus ensuring short MTTR (Mean Time To Repair).

Corrective actions are performed such as part replacement, adjustments and upgrades to return the UPS system back to normal operation.



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