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UPS superior performance service continuity energy efficiency



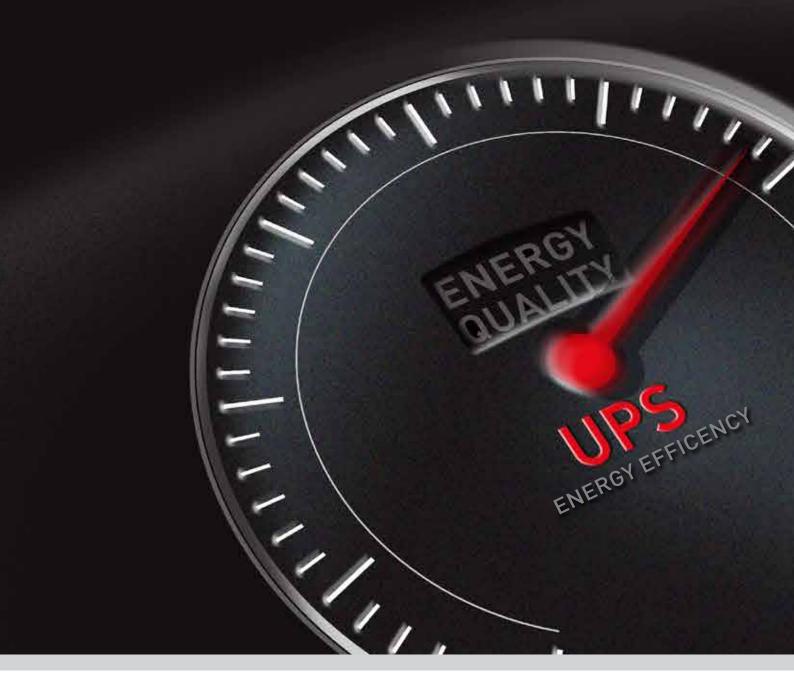


Legrand, world leader in the manufacture of electrical equipment, offers an extensive range of solutions to meet all the needs of service sector installations, from structured cabling systems for data networks through to control and management of the installation, including trunking and distribution 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.







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.

BRINGYOUR POWER EFFICIENCY beyond the limit

Reliable electronics

1111

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

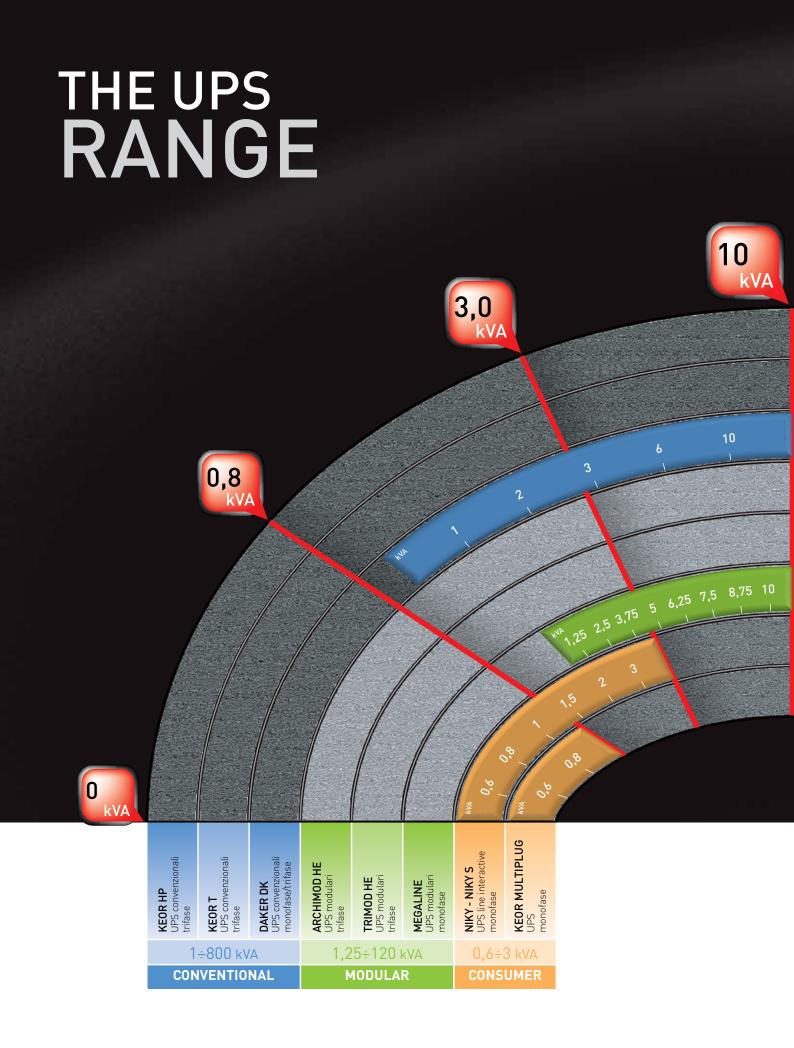
Latest generation components

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%.

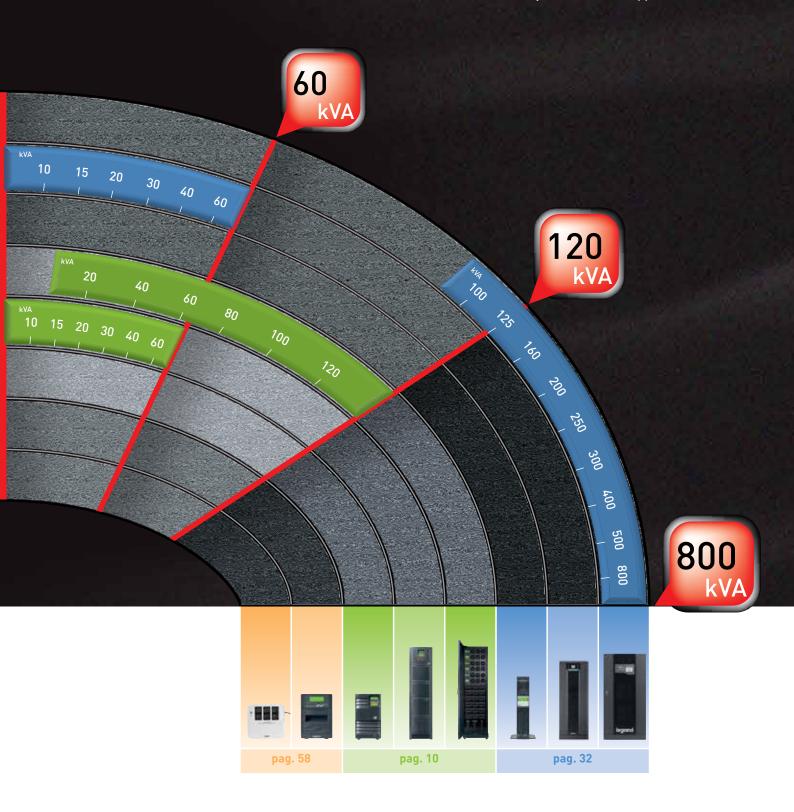
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L¹ legrand[®]

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.



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APPLICATION FIELDS





Data center

Tertiary

Industry



MODULAR UPS

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



TRIMOD HE Three-phase modular UPS VFI, from 8 up to 60kW ARCHIMOD HE Three-phase modular UPS VFI, from 20 up to 120kW

NEW

101

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.

ARCHIMOD HE & TRIMOD HE

factor. FLEXIBLE EXPANDABLE

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.

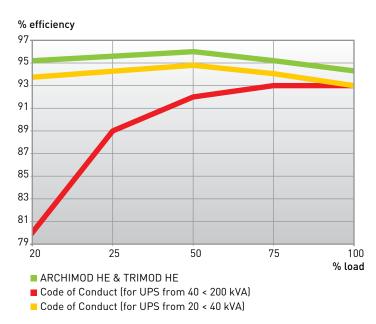
Since then, continuous firmware development and research on control and hardware components have led to no stop improvements in system reliability, quality and technical performance.

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

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

INCREASED POWER

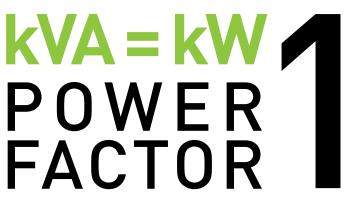
Thanks to their unity power factor the new ARCHIMOD and TRIMOD HE UPS quarantee maximum real power; 11% more than competitor products offering 0,9 power factor, fully 25% more than those of 0.8 power factor.



GREATER EFFICIENCY

ARCHIMOD HE and TRIMOD 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%. ARCHIMOD HE and TRIMOD HE are up to 4% more efficient, thus effectively dividing by 2 all UPS energy losses.







ARCHIMOD HE & TRIMOD HE

MODULARITY

EXPANSION



Optimisation of work

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

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.





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.

La legrand[®]

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.

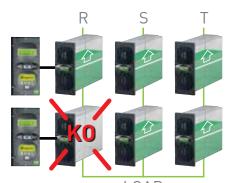


L1

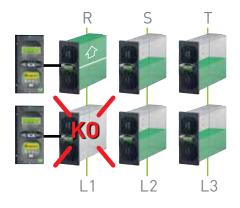
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L2

L3

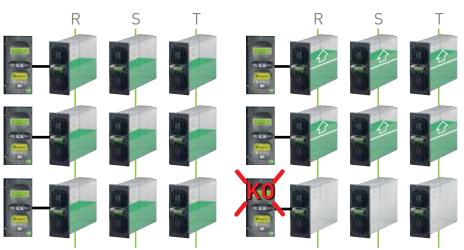


LOAD



R

ς



HIGH LEVELS OF REDUNDANCY

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

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.



La legrand®

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.



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.



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



L[¬]legrand[®]

NEW CABINETS ADVANTAGES NEW SOLUTIONS MORE



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

TRIMOD HE	TRIMOD HE
000	000
÷ •	÷* ÷*
up to 30 kV	V



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



up to 20 kVA

long autonomy



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

TRIMOD **-** + -+ - ÷ [= +]

up to 30 kW

standard autonomy

TRIMOD HE



TRIMOD HE

19

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







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

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

YELLOW & FLASHING -Battery Mode • Battery operation, accompanied by a slow, intermittent alarm signal, which can be silenced

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.

ARCHIMOD HE Double conversion VFI three-phase modular UPS





3 108 55



3 103 61

3 104 73

Pack	Cat. Nos.	CONFIGU	RABLE CAB	INETS						
		The cabine and capaci	The cabinets are supplied empty and are preset for the power and capacity indicated in the table							
		NOMINAL POWER (kVA)	NUMBER OF BATTERY MODULES	NUMBER OF CONTROL MODULES	NO. OF POWER EXPANSION MODULES	NUMBER OF PHASES				
	3104 59	20	30	1	-	1-1/3-3/3-1/1-3				
	3 104 60	40	24	2	-	1-1/3-3/3-1/1-3				
	3 104 61	60	18	3	-	3-3				
	3 104 62	80	-	4	-	3-3				
	3 104 63	100	-	3	2	3-3				
	3 104 64	120	-	3	3	3-3				

	ADDITIONAL CABINETS FOR BATTERIES
	DESCRIPTION
3 108 18	Empty modular battery cabinet
3 108 21	Battery cabinet for 20 kVA UPS with 21 x 94 Ah long life batteries
3 108 22	Battery cabinet for 200-60 kVA UPS with 21 x 94 Ah long life batteries
3 108 23	Battery cabinet for 80 kVA UPS with 21 x 94 Ah long life batteries
3 108 24	Battery cabinet for 100-120 kVA UPS with 21 x 94 Ah long life batteries
3 108 65	Cover for empty battery slot
3 108 66	Cover for empty power module slot

ACCESSORIES

	DESCRIPTION
3 108 73	6.7 kVA power module
3 108 76	kit of 3 x long life battery trays
3 108 64	Front/rear door
3 108 55	Kit of 3 x 9 Ah battery trays
3 108 56	Kit of 3 empty battery trays
3 108 51	Additional charger module

CONFIGURATIONS

20

60

Power: 60 kVA Backup time: 8 min 1 Cabinet

3 Control modules

9 Power modules

18 Battery modules 1 Distribution module

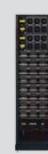
Power: 20 kVA Backup time: 65 min 1 Cabinet 1 Control module 3 Power modules 30 Battery modules 1 Distribution module



40

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





80

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



Power: 120 kVA Backup time: 8 min

3 Control modules

2 Cabinets

120



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



3 Power expansion modules 18 Power modules 36 Battery modules 1 Distribution module

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



ARCHIMOD HE Double conversion VFI three-phase modular UPS

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 pow	er module (20 k	VA with 3 modu	ıles), cosφ 1	I
	Technology		On-	line double con	version VFI-SS	-111	
	System	Modu	ılar, expandable	and redundant	system in a si	ngle cabinet, 19	" rack
	Hot Swap capacity	The power	r and/or battery	modules can b	e replaced with	nout switching o	off the UPS
nput characteristics							
	Input voltage		5 3PH+N+PE 0, 240 1PH)		380, 400, 41	53PH+N+PE	
	Input frequency			45-65 Hz ± 2%	6 autosensing		
	Input voltage range		%/-20% 1P %/-20% 3P		400 V +159	%/-20% 3P	
	THD of input current			< 3	3%		
	Compatibility with gensets	Configu	urable for synch even fo	ronisation betw r the highest fre			uencies,
	Input power factor			> 0	1.99		
Output characteristics							
	Output voltage	380, 400, 41 (o 220, 230	5 3PH+N+PE 0, 240 1PH)		380, 400, 41	53PH+N+PE	
	Efficiency			Up to	96%		
	Nominal output frequency			50/60 H			
	Peak factor			3.5			
	Tolerance on output voltage		10 .	±1		1050/	
	Permitted overload						
	Efficiency in Eco mode Bypass						
Batteries	Буразэ		Au	tornatic and ma	initeriarice byp	100	
	Battery modules	The battery modules are designed for easy insertion in the cabinet. No special operation is required to connect them				net.	
	Battery range type/voltage			VRLA - AGI	M/252 VDC		
	Backup time	Configura	ble and extenda	able, both interr	hally and with a	dditional batter	v cabinets
	Battery charging			arge technolog			,
Communication and management				J	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,	
	Screen and signalling			aracter lines, 4 r Ilti-coloured LE			
	Communication ports	For each co	ntrol module: 2 ports,	x RS232 serial 2 slots for SNM			free contac
	Back-feed protection			N/C + N/O aux	kiliary contact		
	Emergency stop			Ye	es		
	Remote control			Avail	able		
Physical characteristics							
	Dimensions (H x W x D) (mm)			2080 x 570	x 912 (42 U)		
	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%	non condensi	ng	
	Protection index			IP	21		
	Maximum noise audible at 1 m (dBA)			50 to	065		

TRIMOD HE Double conversion VFI three-phase modular UPS





3 108 71



3 104 42

Pack	Cat. Nos.	UPS			
		NOMINAL POWER kW	OPERATING TIME (MIN.)	NO. AND TYPE OF CABINET	WEIGHT (kg)
	3 104 42	10	11	1B	167
	3 104 43	10	17	1B	223
	3 104 44	10	35	1B	279
	3 104 02	10	49	1A	350
	<mark>3 104 43</mark> + 3 107 58	10	68	2A	527
	3 104 45	15	13	1B	220
	3 104 46	15	21	1B	279
	3 104 07	15	29	1A	350
	<mark>3 104 46</mark> + 3 107 60	15	33	2B	413
	<mark>3 104 46</mark> + 3 107 63	15	57	2B	550
	<mark>3 104 46</mark> + 3 108 08	15	110 *	2	865
	3 104 47	20	9	1B	220
	3 104 48	20	14	1B	279
	3 104 13	20	20	1A	350
	<mark>3 104 48</mark> + 3 107 62	20	35	2B	572
	<mark>3 104 14</mark> + 3 108 08	20	82*	2	865
	<mark>3 104 47</mark> + 2 x 3 107 63	20	59	3B	574
	3 104 17	30	8	1A	325
	<mark>3 104 18</mark> + 3 107 63	30	12	2B	434
	3 104 18 + 3 108 09	30	50 *	2	890
	3 104 18 + 2 x 3 108 09	30	110*	3	1645
	<mark>3 104 19</mark> + 3 107 63	40	8	2B	564
	<mark>3 104 19</mark> + 2 x 3 107 58	40	16	3B	801
	3 104 19 + 3 108 10	40	33 *	2	925
	<mark>3 104 19</mark> + 3 x 3 107 59	40	38	4B	439
	<mark>3 104 19</mark> + 4 x 3 107 64	40	60	5B	1663
	3 104 19 + 2 x 3 108 10	40	82*	3B	1700
	3 104 19 + 3 x 3 108 10	40	120*	4	2430
	3 104 20 + 2 x 3 107 58	60	9	3B	830
	3 104 20 + 2 x 3 107 64	60	15	3B	942
	3 104 20 + 3 108 11	60	17 *	2	952
	3 104 20 + 4 x 3 107 63	60	27	5B	1579
	3 104 20 + 2 x 3 108 11	60	50 *	3	1715
	3 104 20 + 3 x 3 108 11	60	80 * 110 *	4	2474
	3 104 20 + 4 x 3 108 11	60	110 *	5	3234

Pack Cat. Nos. **POWER CABINET** OPERATING TIME NO. OF INSTALLABLE (MIN.) BATTERY DRAWERS NOMINAL WEIGHT CABINET POWER kW TYPE (kg) 3 103 96 10 В 0' 12 120 3 103 97 10 А 0' 16 155 3 104 08 15 В 0' 12 120 3 104 03 15 А 0' 16 155 3 104 14 20 В 0' 12 120 3 104 09 20 А 0' 16 155 3 104 18 30 0' 146 В _ 3 104 15 30 0' 12 181 А 3 104 19 40 А 0' 146 _ 3 104 20 60 А 0' 165 _

POWER CABINETS (EMPTY)									
		NO.	CABINET	NO. OF INST.	TYPE OF POWER	NO. OF PHASES			
		OF POWER MODULES	TYPE	BATTERY DRAWERS	MODULE				
3 104 22		3	В	12	3 x 3.4 kW	1-1/3-3/3-1/1-3			
3 104 31		3	Α	16	3 x 3.4 kW	1-1/3-3/3-1/1-3			
3 104 23		3	В	12	3 x 5 or 6.7 kW	1-1/3-3/3-1/1-3			
3 104 32		6	Α	12	6 x 3.4 kW	1-1/3-3/3-1/1-3			
3 104 33		3	В	16	3 x 5 or 6.7 kW	1-1/3-3/3-1/1-3			
3 104 24		6	Α	-	6 x 5 kW	3-3			
3 104 25		6	В	-	6 x 5 kW	1-1/3-3/3-1/1-3			
3 104 34		6	Α	12	6 x 5 kW	3-3			
3 104 26		6	Α	-	6 x 6.7 kW	3-3			
3 104 27		9	Α	-	9 x 6.7 kW	3-3			
		ACCESSO	RIFS						
		DESCRIPTIO							
3 108 69		3.4 kW nr	wer mod	ule					
3 108 71			/er modul						
3 108 73			ower mod						
3 108 51		•		tery charger	module				
				, ,					
 BATTERY ACCESSORIES DESCRIPTION									
3 108 54									
3 108 43		Kit of 4 empty battery drawers Single drawer with 5x7.2Ah batteries (installable in multiples of 4)							
3 108 45 3 108 45		Single drawer with 5x7.2An batteries (installable in multiples of 4)							
3 108 45						ble in multiples of 4)			
J 1007J		Jiliyicula		CAILIONY IIIC	שמנוכרוכי (וווסנמוומ	bie in multiples of 4			
				PTY BATTE	RY CABINETS				
		DESCRIPTIO							
3 108 05				r battery cab					
3 108 06		20-drawe	er modulai	r battery cab	inet				
		AD	DITIONA		CABINETS W	ITH BATTERIES			
Batteri	ies		CRIPTION						
7.2 Ah	9 A	h							
3 107 55	3 107	60 Mo	dular batt	ery cabinet	with 4 drawers				
3 107 56	3 107				with 8 drawers				
3 107 57	3 107			•	with 12 drawers				
3 107 58	3 107				with 16 drawers				
3 107 59	3 107	64 Mo	dular batt	ery cabinet v	with 20 drawers				
		DESCRIPTION		KT CABINET	S WITH LUNG-LI	FE 94 Ah BATTERIES			
3 108 07		Battery ca	abinet for	10 kVA UPS					
3 108 08				20 kVA UPS					
3 108 09				30 kVA UPS					
3 108 10				40 kVA UPS					
3 108 11				60 kVA UPS					

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

* Configurations with battery cabinets (20 x 94 Ah). Battery cabinet measurements and weight: W x L x D 1635 x 600 x 800 (mm), 785 kg Cabinet A h=1650, Cabinet B h=1370

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TRIMOD HE Double conversion VFI three-phase modular UPS

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 specificati	ons						
	Nominal power (kVA)	10	15	20	30	40	60
	Active power (kW)	10	15	20	30	40	60
	Module power (kW)	3.4	5	6.7	5	6.7	6.7
	Classification		0n-	-Line double cor	version VFI-SS	-111	
	System		Modular	, expandable an	d redundant UP	S system	
Input specifications	s						
	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	3,0 ÷ 68.4 Hz)		
	Input voltage range	400V +15%	%/-20% - 230V +	-15%/-20%	4	400V +15%/-20°	6
	THD input current			< 3% (at	full load)		
	Compatibility with power supply units			Ye	es		
	Input power factor			> (1.99		
Output Specificatio	ns						
	Output voltage	380, 400, 415 3	PH+N+PE (or 22	0, 230, 240 1PH)	380,	400, 415 3PH+I	N+PE
	Efficiency			Up to	96%		
	Efficiency in Eco mode			99	9%		
	Nominal output frequency	5	0/60 Hz selecta	ble by the user :	±2 % (standard),	±14 % (extende	ed)
	Crest factor			3	:1		
	Waveform			Sinus	soidal		
	Output voltage tolerance			±1	%		
	THD output voltage			<1	1%		
	Permissible overload	10 minutes at 115%, 60 seconds at 135%					
	Bypass	Automatio	bypass (static	and electromec	hanical) and ma	nual maintena	nce bypass
Batteries							
	Battery module			Plug	& play		
	Battery series type/voltage			VRLA - AG	M / 240 Vdc		
	Operating time			Config	urable		
	Battery charger		Smart ch	arge technology	y. 3-stage advar	iced cycle	
Communication an	d management						
	Display and signals			aracter lines, 4			
				lour status indic		U	
	Communication ports	2 RS232 s	serial ports, 1 lo	ogical gate, 5 por		acts, 1 slot for	interfaces
	Backfeed protection				liary contact		
	Emergency Power Off (EPO)				es		
	. Remote management			Avai	lable		
Physical Specificat			1/50 1070		1/50 1070	1070	1070
	Height (A-B)		1650 - 1370		1650 - 1370	1370	1370
	Width		414		414 628	414	414
	Depth		628			628	628 9
	Installed power modules	1	3 Jp to 16 - Up to 1	12	6	6	7
	Installable battery drawers (A-B)			12	Up to 12 - 0	-	- 1/⊑
Ambient Condition	Net weight kg (A-B)		155 - 120		181 - 146	146	165
					non cond'		
	Operating temperature/humidity		ιι) - 40°C / 0 - 95%		y	
	Protection rating			IP			
Cantanaita	Maximum audible noise at 1 m from the unit (dBA)			4	.6		
Conformity					0 / 0 0 E · · · · · ·		
	Reference standard		EN	l 62040-1, EN 62	U40-2, EN 6204	U-3	

* Standard configurations with 3-3 distribution (multi IN/OUT conf available on request)

	MODULAR UPS	UPS	25
€ WWW.UPS.LEGRAND.COM			

MEGALINE Double conversion VFI single phase modular UPS



3 103 60 + 3 107 78

3 108 57









Pack Cat. Nos. **SINGLE CABINET - WITHOUT BATTERIES** NOMINAL POWER (VA) ACTIVE POWER (W) BACKUP TIME NUMBER OF (min) CABINETS 875 3 103 51 1250 1 -3 103 53 2500 1750 1 -3 103 55 3750 2625 1 -3 103 57 5000 3500 1

	DOUBLE CABINET - WITHOUT BATTERIES							
	NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS				
3 103 60 + 3 108 59	5000	3500	-	2				
3 103 63 + 3 108 59	6250	4375	-	2				
310366 + 310859	7500	5250	-	2				
3 103 69 + 3 108 59	8750	6125	-	2				
$3\ 103\ 72+3\ 108\ 59$	10000	3500	-	2				

3 108 35

Pack	Cat. Nos.	SINGLE CABINET (German standard)								
		NOMINAL POWER (VA)	ACTIVE POWEI (W)	R BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)				
	3 103 50	1250	875	13	1	23.5				
	3 103 52	2500	1750	13	1	34				
	3 103 54	3750	2625	13	1	43				
	3 103 56	5000	3500	13	1	53				

DOUBLE CABINET

	NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
3 103 60 + 3 107 78	5000	3500	13	2	24+50
3 103 63 + 3 107 79	6250	4375	13	2	27+58
3 103 66 + 3 107 80	7500	5250	13	2	29+65
3 103 69 + 3 107 81	8750	6125	13	2	32+73
3 103 72 + 3 107 82	10000	7000	13	2	34+80

SINGLE CABINET (French standard)

	POWER (VA)	(W)	(min)	CABINETS	(kg)
3 103 42	1250	875	13	1	23.5
3 103 43	2500	1750	13	1	34
3 103 44	3750	2625	13	1	43
3 103 45	5000	3500	13	1	53

SINGLE CABINET (British standard) ACTIVE POWER BACKUP TIME (W) (min) NUMBER OF WEIGHT (kg) NOMINAL POWER CABINETS (VA) 3 103 46 1250 875 13 1 23.5 3 103 47 2500 1750 13 1 34 3 103 48 3750 2625 13 1 43 3 103 49 5000 3500 13 1 53

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

	BATTERY EXTENSIONS WITH CHARGER
	DESCRIPTION
3 107 86	Cabinet with 1 BK with charger
3 107 87	Cabinet with 2 BK with charger
3 107 88	Cabinet with 3 BK with charger
3 107 89	Cabinet with 4 BK with charger
3 107 90	Cabinet with 5 BK with charger
3 107 91	Cabinet with 6 BK with charger
3 107 92	Cabinet with 7 BK with charger
3 107 93	Cabinet with 8 BK with charger
3 107 94	Cabinet with 9 BK with charger
3 107 95	Cabinet with 10 BK with charger
	ACCESSORIES
	DESCRIPTION
3 108 35	Power module (PW 1250)
3 108 57	Single cabinet backup extension (MegaLine BK/1)
3 108 58	Double cabinet backup extension (MegaLine BK/2)
3 108 59	Empty battery cabinet
3 108 60	Y cable for connecting a second additional battery cabinet
3 108 61	Battery cabinet extension kit for tower configuration (PL MegaLine cable)
3 108 62	Manual bypass for single cabinet (BP/1)
3 108 63	Manual bypass for double cabinet (BP/2)
3 107 85	Additional charger (CB 36)
3 109 72	Relay interface kit

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

WEICHT

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MEGALINE Double conversion VFI single phase modular UPS

Cat. Nos.	3 103 42 3 103 46 3 103 50	3 103 43 3 103 47 3 103 52	3 103 44 3 103 48 3 103 54	3 103 45 3 103 49 3 103 56	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 3 107 82
		SINGLE	CABINET			DO	UBLE CABII	NET	
General characteristics									
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)		50	00				10000		
Max. expansion (W)		35	00				7000		
Technology				On-line doul	ble conversio	n VFI-SS-111			
Architecture	М	odular, expai	ndable, N+X r	edundant w	ith 1250 VA p	ower cards, c	contained in	a single cabin	et
nput characteristics									
Nominal input voltage					230 V				
Input voltage range				184 V t	o 264 V at 100)% load			
Minimum operating voltage				10)0 V at 50% lo	ad			
THD of input current					< 3%				
Input power factor				> (0.99 at 20% lo	ad			
Input frequency) Hz ± 2% aut				
Dutput characteristics						5			
Output voltage					230 V ± 1%				
Output frequency				50 Hz/	60 Hz synchr	onised			
THD of output voltage					vith non-line				
Waveform					Sinusoidal				
Peak factor					3.5:1				
Efficiency					up to 92%				
Permitted overload			3(10% for 1 s –	200% for 5 s	– 150% for 30	اد		
Backup time					20070101-0-3				
Backup time (min)					13				
Extension of backup time					Yes				
Equipment					105				
Bypass	Automa	tic internally	synchronise	ed static and	lelectromect	nanical (for ov	verloads and	operating pr	oblemsl
Signalling and alarms		-	•					ible signalling	
Communication ports			mai 4 acpital		port, 2 logic l		laicator, add	ible orginating	,
Communicator UPS software		Car	he downloa				activation o	odel	
Protection		Can be downloaded free of charge (after requesting an activation code) Electronic devices for protection against overloads, short-circuits and excessive 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					-		
I/O mains connection	Gerr	nan standard	/terminal co	nnector with	universal m	ulti-socket ou	utlet (Italian/	German stan	dard)
Mechanical characteristics									
Net weight (kg)	23.5	34	43	53	24 + 50	26.5+57.5	29 + 65	31.5+72.5	34 + 80
Dimensions (H x W x D) (mm)		475 x 27	70 x 570			2 x	475 x 270 x	570	
Installed power cards	1	2	3	4	4	5	6	7	8
	3	2	1	-	4	3	2	1	-
Free power expansion slots						-	1	7	8
Free power expansion slots Installed battery kits	1	2	3	4	4	5	6	/	
		2	3 1	-	6	5	6 4	3	2
Installed battery kits	1			-					
Installed battery kits Free backup time extension slots Ambient conditions	1			-	6				
Installed battery kits Free backup time extension slots Ambient conditions Ambient operating temperature (°C)	1			-	6 0 to 40				
Installed battery kits Free backup time extension slots Ambient conditions Ambient operating temperature (°C) Protection index	1			-	6 0 to 40 IP 21				
Installed battery kits Free backup time extension slots Ambient conditions Ambient operating temperature (°C) Protection index Relative humidity (%)	1			-	6 0 to 40 IP 21 20 to 80				
Installed battery kits Free backup time extension slots Ambient conditions Ambient operating temperature (°C) Protection index	1			-	6 0 to 40 IP 21				

MEGALINE RACK Double conversion VFI single phase modular UPS



3 103 85





3 108 62

-

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



3 107 96



3 109 73

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

Pack	Cat. Nos.	RACKS (G	erman stan	dard)		
		NOMINAL POWER (VA)	ACTIVE POWER (W)	R BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	3 103 79	1250	875	13	1	23.5
	3 103 81	2500	1750	13	1	34
	3 103 83	3750	2625	13	1	43
	3 103 85	5000	3500	13	1	53

RACKS (French standard)							
	NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)		
3 103 34	1250	875	13	1	23.5		
3 103 35	2500	1750	13	1	34		
3 103 36	3750	2625	13	1	43		
3 103 37	5000	3500	13	1	53		

	RACKS (B	ritish standa	ard)		
	NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
3 103 38	1250	875	13	1	23.5
3 103 39	2500	1750	13	1	34
3 103 40	3750	2625	13	1	43
3 103 41	5000	3500	13	1	53

RACKS - WITHOUT BATTERIES

	NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS
3 103 80	1250	875	-	1
3 103 82	2500	1750	-	1
3 103 84	3750	2625	-	1
3 103 86	5000	3500	-	1

Pack	Cat. Nos. BACKUP TIME EXTENSIONS							
		NOMINAL POWER (VA)	ADDITIONAL BK	EXPANSION (min)				
	3 103 87	1250	1	30				
	3 103 88	1250	2	52				
	3 103 89	1250	3	75				
	3 103 90	2500	1	22				
	3 103 91	2500	2	30				
	3 103 92	3750	1	18				

	BATTERY EXPANSIONS FOR RACK UPS
	DESCRIPTION
3 107 96	Rack with 1 BK
3 107 97	Rack with 2 BK
3 107 98	Rack with 3 BK
3 107 99	Rack with 4 BK
3 108 00	Rack with 1 BK with charger
3 108 01	Rack with 2 BK with charger
3 108 02	Rack with 3 BK with charger
3 108 03	Rack with 4 BK with charger
	ACCESSORIES
	DESCRIPTION
3 108 35	Power module (PW 1250)
3 108 04	Empty battery rack cabinet
3 108 62	Manual bypass for single rack (BP/1)
3 107 85	Additional charger (CB 36)
3 109 72	Relay interface kit
3 109 73	Telescopic runner kit for 6U rack

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

L¹ legrand[®]

MEGALINE RACK Double conversion VFI single phase modular UPS

Cat. Nos.		3 103 34 3 103 38 3 103 79	3 103 35 3 103 39 3 103 81	3 103 36 3 103 40 3 103 83	3 103 37 3 103 41 3 103 85	
General characteristics						
	Nominal power (VA)	1250	2500	3750	5000	
	Active power (W)	875	1750	2625	3500	
	Max. expansion (VA)		50	00		
	Max. expansion (W)		35	00		
	Technology		On-line double con	version VFI-SS-111		
	Architecture	Modular, expandable, N+X redundant with 1250 VA power cards, contained i				
nput characteristics			га	ck		
	Nominal input voltage			0.V		
	Input voltage range	230 V 184 V to 264 V at 100% load				
	Minimum operating voltage via mains		100 V at 5			
	THD of input current			3%		
	Input power factor			20% load		
	Input frequency					
Output characteristics	input requency	y 50 Hz/60 Hz ± 2% autosensing				
אמנשער כוומו מכופו ושנוכש	Output voltage		230 V	4 1%		
	Output frequency		50 Hz/60 Hz s			
	THD of output voltage					
	Waveform	<pre>< 1% with non-linear load Sinusoidal</pre>				
	Peak factor		3.!			
	Efficiency		up to			
	Permitted overload		300% for 1 s – 200% f			
Backup time	Fer mitted over toad		300 /0101 1 5 - 200 /01	01 5 5 - 150 % 101 50 5		
	Backup time (min)		1	2		
	Extension of backup time		Ye			
Equipment				-5		
		Automatic	, internally synchronis	ed. static and electror	nechanical	
	Bypass		(for overloads and o	perating problems).		
	Signalling and alarms	Large screen with	n 4 alphanumeric lines, signa		s indicator, audible	
	Communication ports		1 RS 232 port, 2			
	Communicator UPS software	Can be down			tivation code)	
	Protection	Electronic devices for protection against overloads, short-circuits and excessive by discharge. Operation stops at end of backup time. Inrush current limiter on start- Sensor for correct neutral switching. Back-feed protection (electrical safety insula the input plug during battery-based operation). EPO (emergency power off) cont				
Mechanical characteristics	I/O mains connection	German stan	dard/terminal connect (Italian/Germ		i-socket outlet	
	Net weight (kg)	23.5	34	43	53	
	Dimensions (H x W x D) (mm)	20.0		43 83 x 582		
	Installed power cards	1	200 x 4	3	4	
	Free power expansion slots	3	2	1	-	
	Installed battery kits	1	2	3	4	
	Free backup time extension slots	3	2	1	-	
Ambient conditions	The backup time extension stors	5	2	1	-	
	Ambient operating temperature (°C)		0 to	40		
	Protection index		IP			
	Relative humidity (%)		20 t			
	Noise at 1 m (dBA)			40		
Certifications	NUISE at 111 (UDA)		<	+0		

MEGALINE Backup times 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
ouble 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.



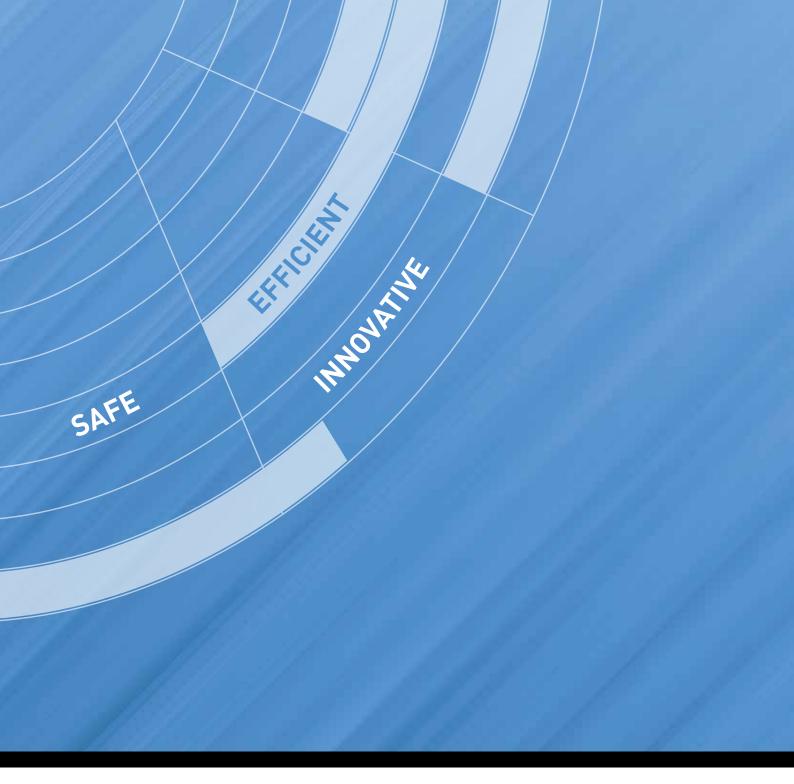
MEGALINE RACK Backup times





Model	Power	Backup time	Number of racks and dimensions W x H x D (mm)	Cat. Nos.
Racks				
	1250 VA	30'	1 (6U)	3 103 87
	1250 VA	52′	1 (6U)	3 103 88
	1250 VA	75′	1 (6U)	3 103 89
	2500 VA	22'	1 (6U)	3 103 90
	2500 VA	30'	1 (6U)	3 103 91
	2500 VA	52'	2 (6U + 3U)	3 103 81 + 3 107 99
	2500 VA	63'	3 (6U + 2x3U)	3 103 81 + 3 107 99 + 3 107 96
	3750 VA	18′	1 (6U)	3 103 92
	3750 VA	29'	2 (6U + 3U)	3 103 83 + 3 107 98
	3750 VA	44'	3 (6U + 2x3U)	3 103 83 + 3 107 99 + 3 107 96
	3750 VA	67'	3 (6U + 3x3U)	3 103 83 + 3 107 99 (x2)
	5000 VA	22'	2 (6U + 3U)	3 103 85 + 3 107 97
	5000 VA	30'	2 (6U + 2x3U)	3 103 85 + 3 107 99
	5000 VA	46'	3 (6U + 3x3U)	3 103 85 + 3 107 99 + 3 107 98
	5000 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	

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



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.

33

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.





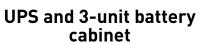
Reversible screen

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



UPS and 2-unit battery cabinet









UPS and 4-unit battery cabinet

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.



KEOR T

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.

10-15-20-30 kVA

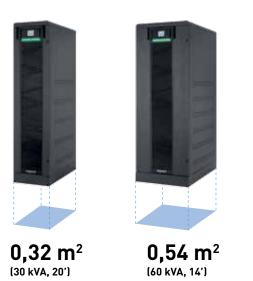
40-60 kVA

10-15-20-30 kVA legrand legrand legrand



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.



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.



KEORT EASY MANAGEMENT

63

legrand

Settings

About

Off

Online

95%

Back

Outp

Diagnosis

[Online]

Parallel Mode

@ 7/14 @

+1 () Mode

12:40:11

Back

Parallel Mode

() Enable () Disable (Single)

39%

1	UPS power	-	21
-		•	3/:
Dutp	UPS output type (V) GUI version	:	2201
· ·	Front Panal	:	
2/5	Front panel version Inverter version Rectice	:	
	Rectifier version	:	
	:1.0V	:	
	:0.2A		
~	:50.0Hz		
Back			

Menu

M_{easurements}

About

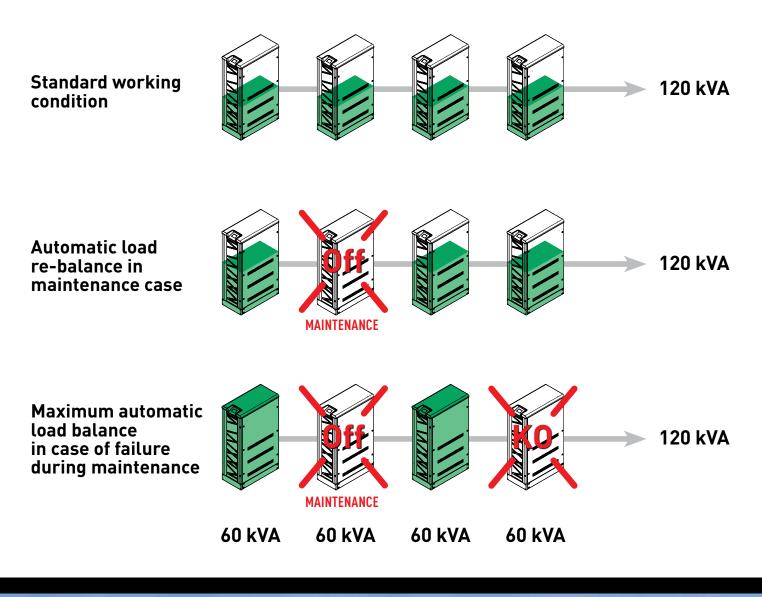
User friendly touch screen control panel

KEOR T is equipped with a touch screen graphic display that provides information, measurements, status and alarms of the UPS in different languages; the intuitive graphical icons allow you to browse through the various screens easily and quickly. In just a few steps you have access to all the operating parameters of the system. You can also configure and set the parameters to adapt the UPS to various operating modes in order to optimize your critical load supply.



Scalable to increase the service continuity

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





KEOR T EXCLUSIVE CHARACTERISTICS



Multicolor LED Bar

The LED bar is highly visible even from a distance, allowing instant visual communication of the UPS status. This allows significant time savings in the event of a failure or diagnosis and considerably reassures the user.

La legrand[®]

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 BOOKVA** In the new Three-Thase of 3 range is available in three types of cabinet with total power rating up to 4.8 MVA

The new Three-Phase UPS





Compact size with the best balance between footprint and power

Integrated transformer for the galvanic separation between AC/DC side

High efficiency up to 95% (TüV certified)

Parallelable up to 4,8MVA

EASY installation and maintenance

Output power factor 0,9



KEOR HP

EASY installation and maintenance

FLEXIBLE SOLUTIONS

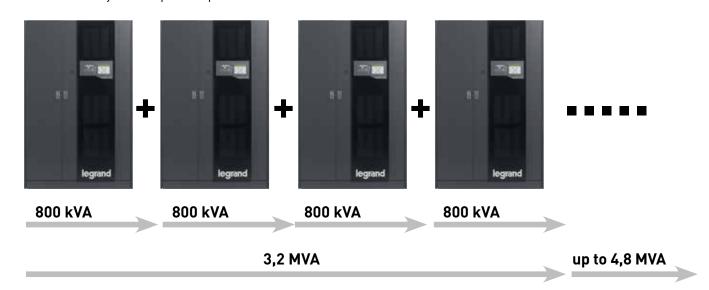
The optimised cooling system enables to position the UPS against the wall and side by side with other equipment without affecting performance. Full front access permits easy installation and fast maintenance operation.



PARALLELABLE UP 6 UNITS

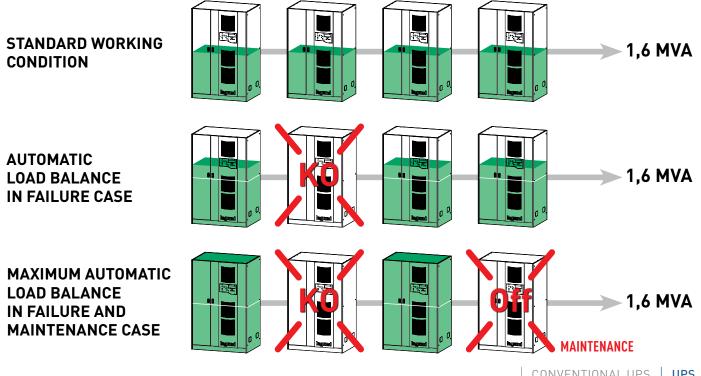
To increase the power

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

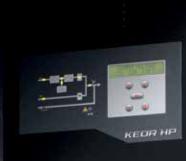
The parallel connections between the UPS enables to realize different levels of redundancy and obtain the maximum continuity of service.



KEOR HP

WHEN POWER TAKES CARE OF THE

ENVIRONMENT



L[¬] legrand[®]





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.

DAKER DK Conventional UPS - On-line double conversion VFI







3 109 53

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 integrated 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.

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 U	ONVERTIBLE UPS WITH BATTERIES					
		NOMINAL POWER	ACTIVE	BACKUP TIME	WEIGHT			
		(VA)	POWER (W)	(min)	(kg)			
	3 100 50	1000	800	10	16			
	3 100 51	2000	1600	10	29.5			
	3 100 52	3000	2400	8	30			
	3 100 53	4500	4050	6	60			
	3 100 54	6000	5400	4	60			

Cat. Nos.	MISCELLANEOUS ACCESSORIES
	DESCRIPTION
3 109 50	Additional 200 W charger (for Daker DK 1000-2000-3000)
3 109 54	Additional 1000 W charger (for Daker DK 4500-6000-10000)
3 109 52	Rack support bracket kit
3 109 53	External manual bypass (for Daker DK 1000-2000-3000)
3 109 69	Volt-free contact card

CONVERTIBLE UPS WITHOUT BATTERIES								
	NOMINAL POWER (VA)	ACTIVE POWER (W)	PHASE CONFIGURATION	WEIGHT (kg)				
3 100 56	4500	4050	1/1	25				
3 100 57	6000	5400	1/1	25				
3 100 58	10000	9000	1/1	26				
3 100 59*	10000	9000	3/1	26				

* 3-1 version

	BATTERY CABINET (WITH BATTERIES)
	DESCRIPTION
3 107 69	Battery cabinet for 3 100 50 (12 x 12 V, 7.2 Ah batteries)
3 107 70	Battery cabinet for 3 100 51 (12 x 12 V, 7.2 Ah batteries)
3 107 71	Battery cabinet for 3 100 52 (12 x 12 V, 9 Ah batteries)
3 107 72	Battery cabinet for 3 100 56 and 3 100 57 (20 x 12 V, 7.2 Ah batteries)
3 107 66	Battery cabinet for 3 100 58 (20 x 12 V, 9 Ah batteries)
	BATTERY CABINET (EMPTY)
	BATTERY CABINET (EMPTY) DESCRIPTION
3 107 50	
3 107 50 3 107 51	DESCRIPTION
	DESCRIPTION Battery cabinet for 3 100 50 (for 12 x 12 V, 7.2 Ah batteries)

3 107 54 Battery cabinet for 3 100 58 (for 20 x 12 V, 9 Ah batteries)

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

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DAKER DK Conventional UPS - On-line double conversion VFI

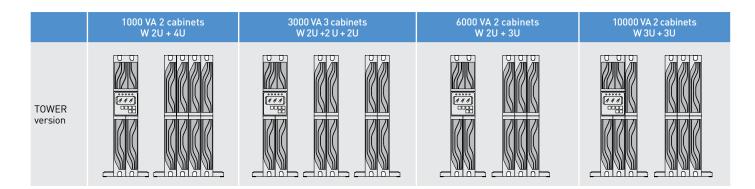
Cat. Nos.		3 100 50	3 100 51	3 100 52	3 100 53	3 100 56	3 100 54	3 100 57	3 100 58	3 100 59
General cha	racteristics									
	Nominal power (VA)	1000	2000	3000	45	500	60	000	10000	10000
	Active power (W)	800	1600	2400	40	150	54	00	9000	9000
	Technology			0n-lin	e double cor	version VFI-S	SS-111			
	Waveform				Sinus	soidal				
	Architecture			Со	nvertible tov	ver and 19" ra	ck			
Input charac	teristics									
	Input voltage				23	0 V				380V 3P+
	Input frequency			Ę	50-60 Hz ± 5%	% autosensing	3			1
	Input voltage range				160 V - 288	3 V full load				277-485\
	THD of input current				<	3%				
	Input power factor				> ().99				
	Compatibility with gensets	Configura	able for synch	ronism betw		and output fr nges, ± 14%	equencies, e	even for the hi	ghest fre-	
Output chara	acteristics				queneyra	.900, 2 1 1 /0				
	Output voltage				230 \	/±1%				
	Output frequency (nominal)			50/60 Hz (configurable	via LCD pane	el) +/- 0.1%			
	Peak factor				1	:3				
	THD of output voltage				< 3% with	linear load				
	Output voltage tolerance				±	1%				
	Bypass		ic bypass and nal manual b							
Batteries				,						
	Backup time extension		-		Y	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	-	-	
Communicat	tion and management									
	Screen and signalling	Four butto	ons and four L	EDs for real-	time control	of the status	and the main	parameters	of the UPS	
	Communication ports	RS232	and USB seri	al ports		RS	232 serial po	orts		
	Remote control				Avai	lable				
	Connector for network interface				SN	MP				
	Back feed protection				V	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	52	25*	52	25*	2	6*
	Dimensions of battery cabinet H x W x D (mm)	440x176 (4U) x405		440x88 (2U) x650	-	440x132 (3U) x680	-	440x132 (3U) x680	440x132	(3U) x680
Ambient con			1							
	Operating temperature (°C)				0 ÷ 4	40°C				
	Protection index					21				
	Relative humidity (%)					80%				
	Noise at 1 m (dBA)					50				
		490	654	818		82	1310		16	536
	Heat dissibation IB I U/ni									
Certification	Heat dissipation (BTU/h)	470	004					1		

* Weight without batteries

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

DAKER DK Configurations







	1000 VA 2 cabinets	4500 VA 3 cabinets	6000 VA 2 cabinets	10000 VA 2 cabinets
	H 6U (264 mm)	H 6U (264 mm)	5U (320 mm)	H 6U (264 mm)
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'	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
	3000 VA	34'	440 x 88 x 650 (x2)	3 100 52 + 3 107 71
		1h 6'	440 x 88 x 650 (x3)	3 100 52 + 3 107 71 (x2)
aker DK		1h 33'	440 x 88 x 650 (x4)	3 100 52 + 3 107 71 (x3)
aker DK		2h 3'	440 x 88 x 650 (x5)	3 100 52 + 3 107 71 (x4)
	4500 VA -	10'	440 x 88 x 650 + 440 x 132 x 680	3 100 56 + 3 107 72
		31'	440 x 88 x 650 + 440 x 132 x 680 (x2)	3 100 56 + 3 107 72 (x2)
		56'	440 x 88 x 650 + 440 x 132 x 680 (x3)	3 100 56 + 3 107 72 (x3)
		1h 30'	440 x 88 x 650 + 440 x 132 x 680 (x4)	3 100 56 + 3 107 72 (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)
	8000 VA	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
		18'	440 x132x650 + 440 x 132 x 680 (x2)	3 100 59 + 3 107 66 (x2)
aker DK 3 - 1	10000 VA	29'	440 x132x650 + 440 x 132 x 680 (x3)	3 100 59 + 3 107 66 (x3)
		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)

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

KEOR T UPS - Three-phase On-line double conversion VFI





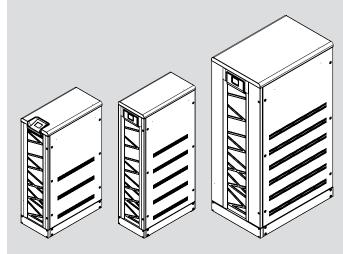


KEOR T 10-30

Pack	Cat. Nos.	UPS			
		NOMINAL POWER kVA	BACKUP TIME (MIN.)	DIMENSIONS H x W x D (mm)	NET WEIGHT (KG)
	3 102 00	10	0	1345 x 400 x 800	118
	3 102 01	10	24	1345 x 400 x 800	253
	3 102 02	10	35	1345 x 400 x 800	283
	3 102 03	10	56	1650 x 400 x 800	406
	3 102 04	15	0	1345 x 400 x 800	132
	3 102 05	15	12	1345 x 400 x 800	267
	3 102 06	15	20	1345 x 400 x 800	297
	3 102 07	15	33	1650 x 400 x 800	420
	3 102 08	20	0	1345 x 400 x 800	134
	3 102 09	20	8	1345 x 400 x 800	269
	3 102 10	20	14	1345 x 400 x 800	299
	3 102 11	20	36	1650 x 400 x 800	494
	3 102 12	30	0	1345 x 400 x 800	140
	3 102 13	30	8	1345 x 400 x 800	305
	3 102 14	30	13	1650 x 400 x 800	428
	3 102 15	30	20	1650 x 400 x 800	488
	3 102 16	40	0	1650 x 600 x 900	255
	3 102 17	40	8	1650 x 600 x 900	539
	3 102 18	40	13	1650 x 600 x 900	598
	3 102 19	40	22	1650 x 600 x 900	748
	3 102 20	60	0	1650 x 600 x 900	277
	3 102 21	60	8	1650 x 600 x 900	620
	3 102 22	60	14	1650 x 600 x 900	770

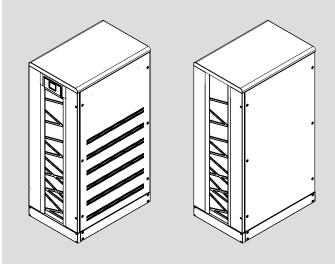
ACCESSORIES DESCRIPTION 3 109 11 Battery drawers kit for KEOR T 10-30 kVA (60 blocks 7-9 Ah) Battery drawers kit for KEOR T 40-60 kVA (60 blocks 7-9 Ah) 3 109 12 3 109 13 Internal battery cables kit for battery drawers KEOR T 10-30 kVA 3 109 14 Internal battery cables kit for battery drawers KEOR T 40-60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

KEOR T 10-15-20-30-40-60 WITH INTERNAL BATTERIES



KEOR T 10-15-20-30 WITH EXTERNAL BATTERY CABINET

KEOR T 40-60 WITH EXTERNAL BATTERY CABINET



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

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KEOR T UPS - Three-phase On-line double conversion VFI

Model	KEOR T10	KEOR T15	KEOR T20	KEOR T30	KEOR T40	KEOR T6	
General characteristics							
Nominal power (kVA)	10	15	20	30	40	60	
Active power (kW)	9	13,5	18	27	36	54	
Technology			On-line double con	version VFI-SS-111		-	
Waveform			Sinus	soidal			
Architecture		Star	nd Alone or Distribut	ted Parallel up to 8 u	inits		
nput characteristics							
Input voltage			380, 400, 415	V 3Ph+N+PE			
Input frequency			45-6	5 Hz			
Input voltage range (Ph-Ph)			half load 208 - 467 /	[/] full load 312-467V			
THD of input current			<3% at f	ull load*			
Compatibility with diesel generators	Con	nfigurable for synch	nronization between high frequen	the input and outpu cy variations	t frequencies, ever	n for	
Input power factor			> 0),99			
Output characteristics							
Output voltage		380, 4	00, 415 V 3Ph+N (Adj	ustable from Front	Panel)		
Efficiency			up to	96%			
Efficiency in Eco mode			up to 9	98,5%			
Output frequency (nominal)		50 /60 H	z ±0,01% free run (A	djustable from Fron	nt 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 Automatic and Maintenance By-pass						
Isolation Transformer		Transformerless [Design. Optional Inte	rnal Isolation Trans	former on request		
Batteries							
Backup time extension		0	Scalable with addition	onal battery cabinets	5		
Battery type			VRLA-AGM Ma	aintenance-free			
Internal Battery			Ye	es			
Battery Test			Automatic	or manual			
Battery Recharge Profile			IU (DIN	141773)			
Communication and management							
LCD Display		Touch scre	en, LED bar status,	live synoptic view fo	r real time		
Communication Ports		RS232, G	enSet, Programmat	ole 4 Relay Contacts	, ModBus		
Back Feed Protection		Inter	nal Back Feed Prote	ection Device is Stan	dard		
Audible Alarm			Acoustic alarm	s and warnings			
Net Interface Slot			optional S	NMP card			
Emergency Power Off (EPO)			Ye				
Remote Management			Avail	lable			
Physical characteristics					F		
Dimensions H x W x D (mm)) x 400 x 800			00 x 900	
Dimensions battery cabinet H x W x D (mm)		1345 x	600 x 800		1650 x 8	00 x 900	
Ambient conditions							
Operating temperature (°C)			0÷				
Relative humidity (%)			20÷95% not				
Protection index			IP				
Noise at 1 m (dBA)			< !	55			
Certifications							
Reference product standards			EN 62040-1, EN 62	040-2, EN 62040-3			

* 40-60 kVA

KEOR HP 100-125-160-200-250-300 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)			
	KEOR HP 100	100	90	1670 x 815 x 825	625			
	KEOR HP 125	125	112,5	1670 x 815 x 825	660			
	KEOR HP 160	160	144	1670 x 815 x 825	715			

UPS (without batteries)									
		NOMINAL POWER kVA	ACTIVE POWER kW	DIMENSIONS H x W x D (mm)	NET WEIGHT (KG)				
KEOR	HP 200	200	180	1905 x 1220 x 855	970				
KEOR	HP 250	250	225	1905 x 1220 x 855	1090				
KEOR	HP 300	300	270	1905 x 1220 x 855	1170				

OPTIONS

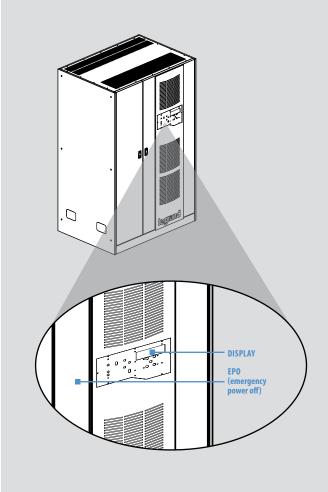
DESCRIPTION

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 100-125-160

0

0

KEOR HP 200-250-300



L¹ legrand[®]

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 con	version VFI-SS-111		
Waveform			Sinus	soidal		
Architecture		Co	nventional UPS, pa	rallelable up to 6 un	nit	
nput characteristics						
Input voltage			380-415	V 3Ph+N		
Input frequency		50-60 Hz \pm 10% autosensing				
Input voltage range			400 V -20	% / + 15%		
THD of input current			<3	1%		
Compatibility with diesel generators				en the input and out frequency variations		
Input power factor	> 0,99					
Dutput characteristics						
Output voltage			380, 400, 415 V	3Ph+N selected		
Efficiency			up to			
Output frequency (nominal)			•	cted ± 0,001%		
Crest factor			3	:1		
THD of output voltage			<5% (with no	n-linear load)		
Output power factor			0	.9		
Output voltage tolerance			± 1% (with b	·		
Efficiency in Eco mode	98%					
Bypass	Built-in Automatic and Maintenance By-pass					
Batteries		Bu		Figuriteriariee by pe		
Backup time extension		S	calable with additio	onal battery cabinets	5	
Battery type				e-free Lead Acid Bat		
Battery test			Automatic			
Battery Recharge Profile			IU (DIN			
Communication and management			10 (511)			
			Four LED's to show	status at a glance.		
LCD Display				ons. Four status at a	glance LEDs	
Communication Ports			RS232 and US	B serial ports		
Audible Alarm		Acoust	ic alarms and warı	nings, configurable (delays	
Configuration Setting		Auto configu	ration by firmware	, or manual by servi	ice engineer	
Net Interface Slot		Buil	t-in dry contact PC	B, optional SNMP ca	ard	
Emergency Power Off (EPO)			Ye	25		
Remote Management			Avail	able		
Battery temperature probe			Ye	25		
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
Dimonetions battony exhibits (1, W) ()	1900	x 1400 x 830 (50 batt	teries)	1900 x	1400 x 860 (50 batterie	es)
Dimensions battery cabinet H x W x D (mm)	1900 x	2800 x 830 (100 bat	teries)	1900 x	2800 x 860 (100 batteri	es)
Ambient conditions						
Operating temperature (°C)) 0÷40 0÷40					
Relative humidity (%)						
Protection index		IP20			IP20	
Noise at 1 m (dBA)		< 60			< 62	
Certifications						
Reference product standards			EN 62040-1 FN 62	040-2, EN 62040-3		

KEOR HP 400-500-600-800 Conventional UPS - Three-phase On-line double conversion VFI



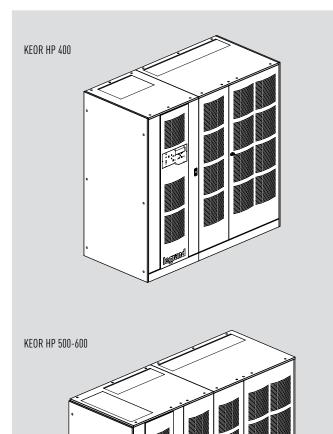
KEOR HP 400

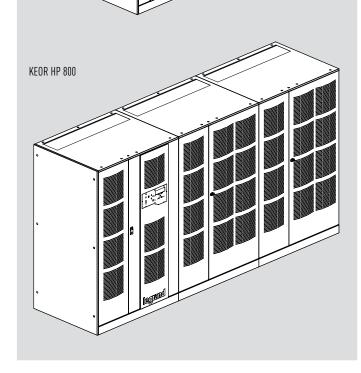
Pack	Model	UPS (without	batteries)		
		NOMINAL POWER kVA	ACTIVE POWER kW	DIMENSIONS H x W x D (mm)	NET WEIGHT (KG)
1	KEOR HP 400	400	360	1920 x 1990 x 965	1820
1	KEOR HP 500	500	450	2020 x 2440 x 965	2220
1	KEOR HP 600	600	540	2020 x 2440 x 965	2400
1	KEOR HP 800	800	720	1920 x 3640 x 965	3600

Pack **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



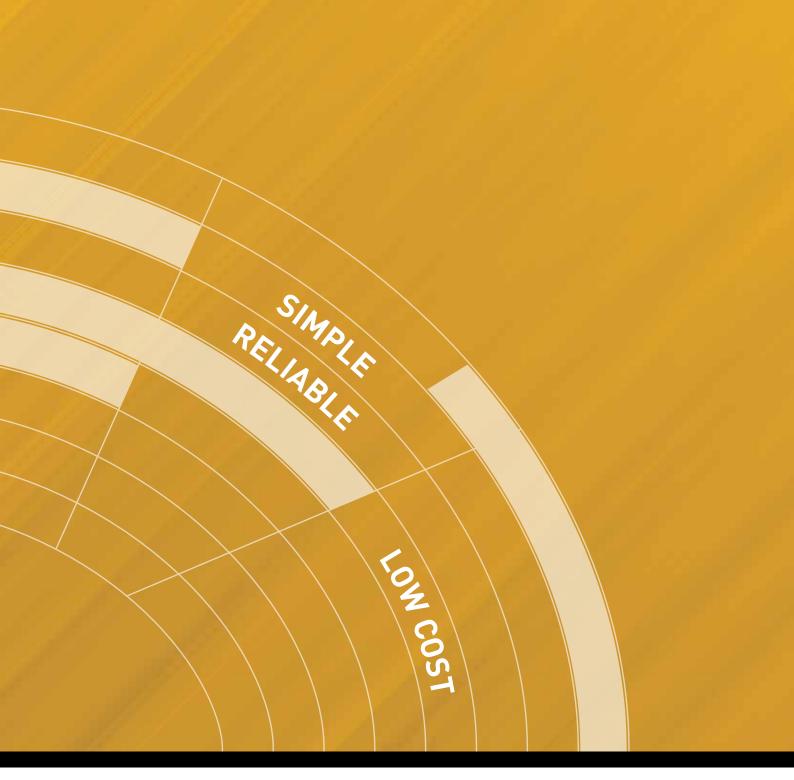


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KEOR HP 400-500-600-800

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

		400	500	600	800
General charac	teristics				
	Nominal power (kVA)	400	500	600	800
-	Active power (kW)	360	450	540	720
-	Technology		On-line double con	version VFI-SS-111	
-	Waveform		Sinus	oidal	
-	Architecture		Conventional UPS, pa	rallelable up to 6 unit	
nput character	ristics				
	Input voltage		380-415	V 3Ph+N	
-	Input frequency	50-60 Hz \pm 10% autosensing			
-	Input voltage range		400 V -20	% / + 15%	
-	THD of input current		<3	%	
_	Compatibility with diesel generators	Configura	ble for synchronism betwe even for the highest	en the input and output fre frequency variations	quencies,
-	Input power factor				
Output characte				,· ·	
	Output voltage		380 400 415 V.	3Ph+N selected	
-	Efficiency	380, 400, 415 V 3Ph+N selected up to 95%			
-	Output frequency (nominal)		50 /60 Hz sele		
-	Crest factor				
-	THD of output voltage	3:1 <5% (with non-linear load)			
-	Output power factor		0		
-	Output voltage tolerance				
-	Efficiency in Eco mode	± 1% (with balance load) >98%			
-	Bypass		Built-in Automatic and		
Batteries	Dypass		Built-In Automatic and	Maintenance by-pass	
	Backup time extension		Scalable with addition	nal battery cabinets	
-	Battery type		VRLA - AGM Maintenance		
-	Battery test		Automatic	or manual	
-	Battery Recharge Profile		IU (DIN		
Communicatior	n and management			····· - ,	
	LCD Display	Four n	Four LED's to show	r status at a glance. ons. Four status at a glance	e LEDs
-	Communication Ports		RS232 and US	B serial ports	
-	Audible Alarm			•	
	, lauloto, ital III	Acoustic alarms and warnings, configurable delays			
-	Configuration Setting	Auto			ineer
-	Configuration Setting Net Interface Slot	Auto	configuration by firmware	, or manual by service eng	ineer
-	Net Interface Slot	Auto	configuration by firmware Built-in dry contact PC	, or manual by service eng B, optional SNMP card	ineer
- -	Net Interface Slot Emergency Power Off (EPO)	Auto	configuration by firmware Built-in dry contact PC Ye	, or manual by service eng B, optional SNMP card es	ineer
- - -	Net Interface Slot Emergency Power Off (EPO) Remote Management	Auto	configuration by firmware Built-in dry contact PC Ye Avail	, or manual by service eng B, optional SNMP card es able	ineer
- - - - Physical charac	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe	Auto	configuration by firmware Built-in dry contact PC Ye	, or manual by service eng B, optional SNMP card es able	ineer
- - - - Physical charac	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe		configuration by firmware Built-in dry contact PC Ye Avail	, or manual by service eng B, optional SNMP card es able es	
- - - - Physical charac	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe cteristics Dimensions H x W x D (mm)	1920 x 1990 x 950	configuration by firmware Built-in dry contact PC Ye Avail Ye 2020 x 2440 x 950	, or manual by service eng B, optional SNMP card es able es 2020 x 2440 x 950	1920 x 3640 x 950
- - - - Physical charac - -	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe cteristics Dimensions H x W x D (mm) Net Weight [kg]	1920 x 1990 x 950 1820	configuration by firmware Built-in dry contact PC Ye Avail 2020 x 2440 x 950 2220	, or manual by service eng B, optional SNMP card es able es	1920 x 3640 x 950 3600
-	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe cteristics Dimensions H x W x D (mm) Net Weight (kg) Dimensions battery cabinet H x W x D (mm)	1920 x 1990 x 950	configuration by firmware Built-in dry contact PC Ye Avail 2020 x 2440 x 950 2220	, or manual by service eng B, optional SNMP card es able es 2020 x 2440 x 950 2400	1920 x 3640 x 950 3600
-	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe cteristics Dimensions H x W x D (mm) Net Weight (kg) Dimensions battery cabinet H x W x D (mm) ions	1920 x 1990 x 950 1820	configuration by firmware Built-in dry contact PC Ye Avail 2020 x 2440 x 950 2220 0 (100 batteries)	, or manual by service eng B, optional SNMP card es able 2020 x 2440 x 950 2400	1920 x 3640 x 950 3600
-	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe cteristics Dimensions H x W x D (mm) Net Weight (kg) Dimensions battery cabinet H x W x D (mm) ions Operating temperature [°C]	1920 x 1990 x 950 1820	configuration by firmware Built-in dry contact PC Ye Avail 2020 x 2440 x 950 2220 0 (100 batteries) 0÷	, or manual by service eng B, optional SNMP card es able 2020 x 2440 x 950 2400	1920 x 3640 x 950 3600
- - - - - - - - - - - - - - - - - - -	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe cteristics Dimensions H x W x D (mm) Net Weight [kg] Dimensions battery cabinet H x W x D (mm) ions Operating temperature (°C) Relative humidity (%)	1920 x 1990 x 950 1820	configuration by firmware Built-in dry contact PC Ye Avail 2020 x 2440 x 950 2220 0 (100 batteries) 0 + 0 + 295% not c	, or manual by service eng B, optional SNMP card es able 2020 x 2440 x 950 2400 40 ondensing	1920 x 3640 x 950 3600
-	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe cteristics Dimensions H x W x D (mm) Net Weight (kg) Dimensions battery cabinet H x W x D (mm) ions Operating temperature (°C) Relative humidity (%) Protection index	1920 x 1990 x 950 1820	configuration by firmware Built-in dry contact PC Ye Avail 2020 x 2440 x 950 2220 0 (100 batteries) 0 <95% not c	, or manual by service eng B, optional SNMP card es able 2020 x 2440 x 950 2400 40 ondensing 20	1920 x 3640 x 950 3600
-	Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe cteristics Dimensions H x W x D (mm) Net Weight [kg] Dimensions battery cabinet H x W x D (mm) ions Operating temperature (°C) Relative humidity (%)	1920 x 1990 x 950 1820	configuration by firmware Built-in dry contact PC Ye Avail 2020 x 2440 x 950 2220 0 (100 batteries) 0 + 0 + 295% not c	, or manual by service eng B, optional SNMP card es able 2020 x 2440 x 950 2400 40 ondensing 20	1920 x 3640 x 950 3600



CHARACTERISTICS OF THE RANGE

Compact, easy to install and configure.

APPLICATION FIELDS



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.

Ideal protection for small office and home office applications

This range offers the best quality/price ratio for the safety of data in the office or the home. Microprocessor controlled and with an electronic automatic voltage regulator (AVR) and an intelligent communication interface, they provide optimum protection management.



CONSUMER AND SOHO UPS

up to 3 kVA



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



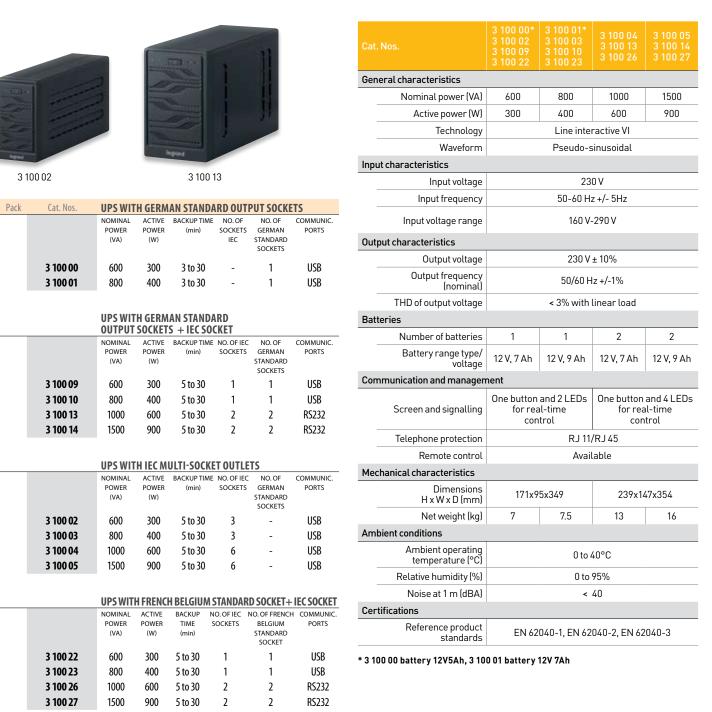
NIKY-S Single-phase line interactive UPS VI-SS, from 1 up to 3kVA



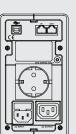
KEOR Multiplug Single-phase UPS VI-SS, 600 and 800VA

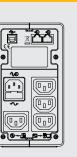
Advanced management according to battery discharge level AVR (automatic voltage regulator) Integrated self-diagnostics Cold start function Microprocessor control RS232 or USB interface MODEM/LAN telephone protection Sinusoidal output Microprocessor control MODEM/LAN telephone protection RS-232 or USB interface Cold start function Protection against voltage peaks Integrated self-diagnostics Intelligent battery management Overload and short-circuit protection Excellent voltage regulation Safe and continuous supply Wall mounting or installation on floor Combination power button/ LED indicator Push button circuit breakers Automatic diagnostic testing

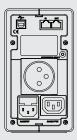
NIKY Line Interactive UPS - Single phase VI

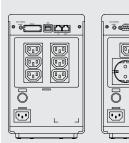


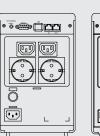
NOTE: The stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

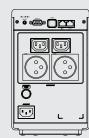














NIKY S Line Interactive UPS - Single phase VI-SS



3 100 06

Pack	Cat. Nos.	UPS				
		NOMINAL POWER VA	ACTIVE POWER W	BACKUP TIME (min)	NO. OF SOCKETS IEC	COMMUNICATION PORTS
	3 100 06	1000	600	9	6	USB-RS 232
	3 100 20	1500	900	8	6	USB-RS 232
	3 100 07	2000	1200	9	6	USB-RS 232
	3 100 08	3000	1800	8	6	USB-RS 232

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 b	oattery
Input frequency		50-60 H	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	e < 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 managen	nent			
Screen and signalling		ttons and thr ntrol of the st		
Telephone protection		RJ 11/	/RJ 45	
Remote control		Avai	lable	
Mechanical characteristics				
Dimensions H x W x D (mm)	247x17	73x369	247x17	73x465
Net weight (kg)	13	15	22	24
Ambient conditions				
Ambient operating temperature (°C)				
Relative humidity (%)	0 to 95% non-condensing			
Noise at 1 m (dBA)		<	40	
Certifications				
Reference product standards	EN 62	040-1, EN 62	040-2, EN 62	040-3

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



KEOR MULTIPLUG Single phase



Safe and continuous supply for computer equipment, audio and video. **Full protection**: discharge, overcharge, short circuit, thermal protection **Combination power button/LED indicator**: provides visual and audible status of the unit.

of the unit. Push button circuit breakers: enables quick recovery from overload. Automatic restart: when AC power fails the UPS continues to operate. in battery mode and shutdown if the power outage lasts longer than the battery back up time. The UPS automatically restarts when power is restored



Pack	Cat. Nos.	UPS WITH	GERMAN ST	ANDARD OU	TPUT SOCKE	TS
		NOMINAL POWER (VA)	BACKUP TIME (min)	NO.OF UPS&SURGE PROTECTION SOCKETS	NO.OF SURGE PROTECTION SOCKETS	COMMUNIC. PORTS
	3 100 38 3 100 39	600 800	10 10	6 6	2 2	USB USB

Pack	Cat. Nos.	UPS WITH	FRENCH STA	NDARD OUT	PUT SOCKET	rs
		NOMINAL POWER (VA)	BACKUP TIME (min)	NO.OF UPS&SURGE PROTECTION SOCKETS	NO.OF SURGE PROTECTION SOCKETS	COMMUNIC. PORTS
	3 100 40	600	10	6	2	USB
	3 100 41	800	10	6	2	USB

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



surge protection



Cat. Nos.	3 100 38 3 100 40	3 100 39 3 100 41		
General characteristics				
Nominal power (VA)	600	800		
Active power (W)	360	480		
Input characteristics				
Input voltage	180-270 V			
Input frequency	50-60 Hz			
Output characteristics				
Output voltage	230Vac±10% (battery mode)			
Output frequency (nominal)	50Hz			
Communication and management				
Communication ports	USB - Tel/Modem-Fax protection			
Reference product standards	EN 62040-1, EN 62040-2			

CONSTRUCTION FEATURES



Sockets for different standards



Indication and signaling user-friendly



Easy replacing of the battery included in the case



COMMUNICATION ACCESSORIES

UPS SUPERVISION SYSTEM

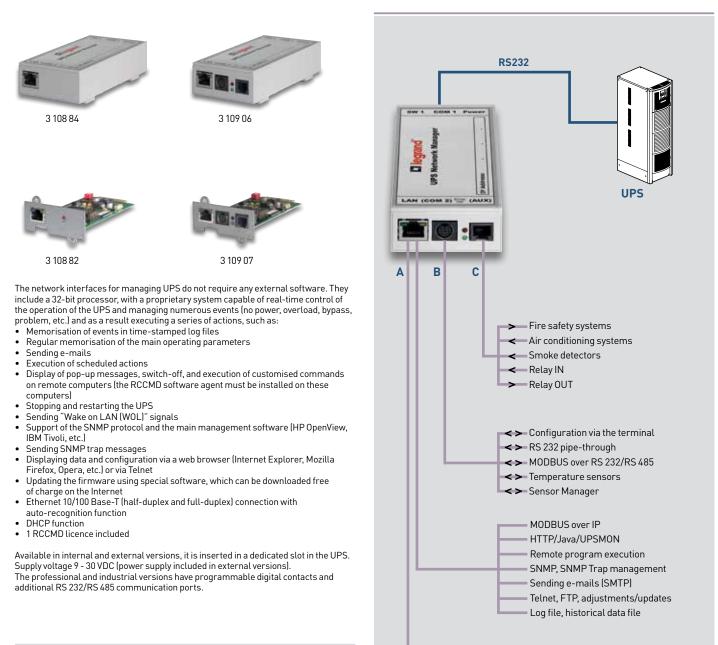


CHARACTERISTICS OF THE RANGE

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.

ACCESSORIES Network interfaces



Model	Cat. Nos.	NETWORK INTERFACE
		DESCRIPTION
CS121 SK	3 108 81	PROFESSIONAL network interface, internal version (card)*
CS121B SK	3 108 82	STANDARD network interface, internal version (card)*
CS121	3 108 83	PROFESSIONAL network interface, external version**
CS121B	3 108 84	STANDARD network interface, external version**
CS121M	3 109 06	INDUSTRIAL network interface, external version**
CS121M SK	3 109 07	INDUSTRIAL network interface, internal version (card)*

* For Archimod, Trimod, DK (all powers) and WHAD 3000, 4000, 5000 and 6000 VA.

** For Megaline (all powers) and WHAD 800, 1000, 1500, 2000 and 2500 VA.

STOP/COMMANDS/MESSAGES

- Unix/Linux + RCCMD agent

Windows + RCCMD agent
 Mac OS X + RCCMD agent

- AS/400 + RCCMD agent

Novell NetWare + RCCMD agent
 VMware + RCCMD agent
 Citrix + RCCMD agent

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

* Only Modbus over RS 485

C learand

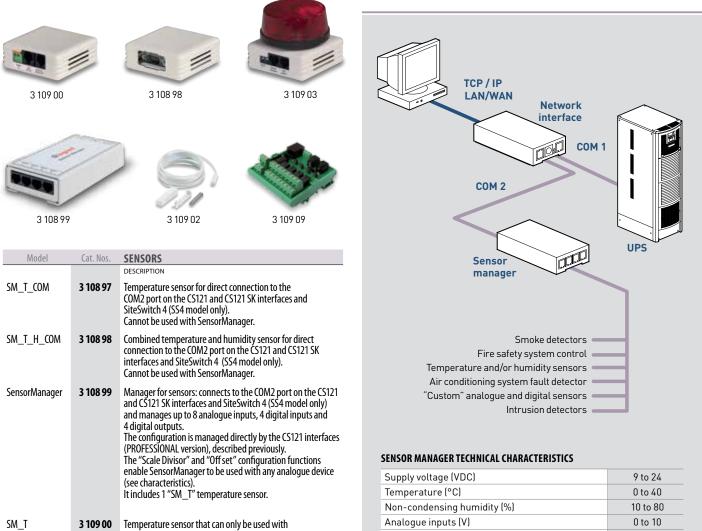
9 to 24

9 to 24

70 x 126 x 30

ACCESSORIES

Sensors and other accessories



1	3 109 00	lemperature sensor that can only be used with SensorManager. It enables another "SM_T" sensor to be connected using a special connector.
<u>T_</u> H	3 109 01	Combined temperature and humidity sensor that can only be used with SensorManager.
rsensor	3 109 02	This consists of a reed switch and a magnet. Compatible with CS121, CS121 SK, CS121 M, CS121M SK

		and SensorManager.
SM_flash	3 109 03	Flashing illuminated signal. Only compatible with SensorManager.
CON_R_AUX	3 109 09	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 TECHNICAL CHARACTERISTICS

Digital inputs (V)

10 mA digital outputs (V)

Dimensions (WxDxH) (mm)

	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 70 x 70			

* Direct from the network interface ** Direct from SensorManager

SM_

Door

ACCESSORIES Load management control unit (SiteSwitch)



3 109 04

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.

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.

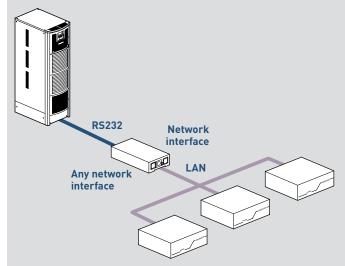
Model	Cat. Nos.	SITESWITCH 4
		DESCRIPTION
SS4 SS4 AUX	3 109 04 3 109 05	PROFESSIONAL load management control unit STANDARD load management control unit

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.

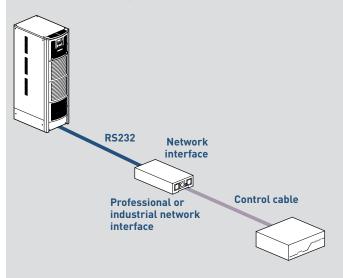
This enables the switching point to be installed close to the loads to be supplied and enables the UPS to control a potentially infinite number of control units.

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.

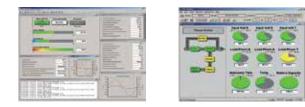


TECHNICAL CHARACTERISTICS

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



ACCESSORIES Management software

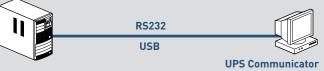


Model	Cat. Nos.	SOFTWARE
		DESCRIPTION
UPS Communicator	downloadable	Set of applications for real-time control of the operation of the UPS and to ensure the integrity of the systems on the computers supplied by this UPS. Operates with an agent for executing commands on remote computers (RS System).
UPS management software	3 108 79	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).
UPS management software	3 108 80	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).
RCCMD	3 108 85	Multi-OS RCCMD licence
RCCMD	3 108 86	Pack of multi-OS RCCMD licences
RCCMD	3 108 87	Pack of 10 multi-OS RCCMD licences
RCCMD	3 108 88	Pack of 25 multi-OS RCCMD licences
RCCMD	3 108 89	Pack of 50 multi-OS RCCMD licences
RCCMD	3 108 90	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.
UNMS	3 108 91	UNMS licence for 25 UPS
UNMS	3 108 92	UNMS licence for 50 UPS
UNMS	3 108 93	UNMS licence for 150 UPS

 $\mathsf{Examples}$ of types of management and communication that can be created with software and hardware

LOCAL PROTECTION

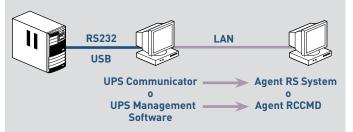
Protects and controls a single station (PC or server) which must be located less than 12 metres away.



o UPS Communicator o UPS Management Software

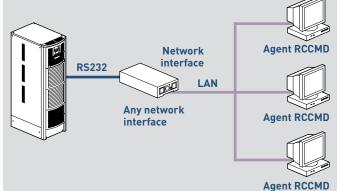
EXTENDED LOCAL PROTECTION

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



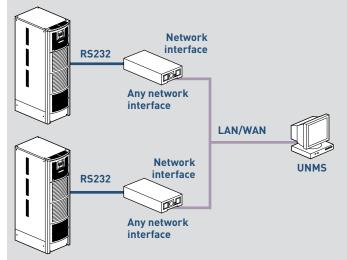
PROTECTION VIA TCP/IP NETWORK

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

[] legrand®



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.

NOTES

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