UPS UNINTERRUPTIBLE POWER SUPPLY



GLOBAL SPECIALIST IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES



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The guarantee of optimum "Continuity of service" 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.



Energy efficiency and economy

L¹ legrand[®]

Maximum energy quality

High efficiency

The innovative design and high quality of the components used enable our UPS to achieve up to 95% 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.

7







Reliability and Safety technological excellence applied to UPS



Reliable electronics

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

Latest generation components

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

High performance batteries

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

9

THE RANGE





p32 CONVENTIONAL



UPS providing a safe, reliable power supply up to 10 kVA.

p12 MODULAR



UPS up to 120 kVA providing maximum safety (power and control), for applications requiring easy expansion and fast maintenance.



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 all your requirements.



P44 LINE INTERACTIVE



UPS up to 3 kVA. Ideal protection for individual workstations, telephone switchboards or home automation applications and even for small service sector companies.



P50 COMMUNICATION ACCESSORIES



A complete range of communication devices for managing, configuring and controlling the UPS remotely.

11





MODULAR UPS



Flexible, expandable, redundant solutions

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 AND TRIMOD



DYNAMIC THREE-PHASE SYSTEMS

UPS offering optimum adaptability for all types of installation with their exclusive technology.

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.

Highly standardised components, consisting of individual single phase modules, provide the most flexible expandability on the market.

La legrand®

Product Differentiation Excellence Award 2011

Gradual power adaptation

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





Optimisation of work

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

FLEXIBILITY MODULARITY EXPANSION ARCHMOD ND TRIMOD

ARCHIMOD AND TRIMOD

EXCLUSIVE CHARACTERISTICS

Expanding the power

The power can be increased very quickly and easily inside the cabinet itself for both product families, without the need to reconfigure the installation or the UPS.



TRIMOD from 10 to 60 kVA



ARCHIMOD from 20 to120 kVA



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

L2

L3



LOAD





MODULAR UPS

Maximum redundancy levels

The innovative design of the modular UPS enables different levels of redundancy to be obtained so that maximum continuity of service is maintained at all times.

ARCHIMOD THREE-PHASE MODULAR UPS

Efficiency up to 95% when operating in ON LINE MODE

Plug-in modules with self-configuring Plug&Play system

Power factor at the input close to 1 at 20% load

Multiple I/O to obtain different three-phase/ single phase configurations as required

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

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

La legrand®

MODULAR ARCHITECTURE

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 kVA. 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 kVA) 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.

Power expansion module

This must be used with a control module. It increases the power from 20 to 40 kVA 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. 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 THREE-PHASE MODULAR UPS

Space-saving modular and expandable with powers from 10 to 60 kVA in a compact structure.

The totally modular design of TRIMOD UPS enables each power module to be programmed to obtain the required I/O configuration.

It is possible to have three-phase or single phase voltage inputs and outputs to obtain one of the following configurations: three-phase/three-phase, three-phase/single phase, single phase/three-phase or single phase/single phase. It is also possible to have single phase and three-phase output lines simultaneously, or several single phase of different powers (optional).

Control screen

The TRIMOD system is totally controlled by a microprocessor. Using the LCD screen and the keypad, it is possible to:

- Set and view the operating data in real time
- Configure and control the parameters of each power module
- Access the event logs
- Perform a series of functional tests



Compact, space-saving versions

The compact size, low vertical structure and the 2 small wheels at the back make it easy to position and transport the UPS, even in locations that are difficult to access.



L¹ legrand[®]

MEGALINE SINGLE PHASE MODULAR UPS

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. 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.



ARCHIMOD Double conversion VFI three-phase modular UPS





3 108 55



3 104 54

3 108 40

Pack	Cat. Nos.	CONFIGURABLE CABINETS								
		The cabinet capacity ind	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				
	3 104 51 *	20	12	1	-	3-1/3-3				
	3 104 52	20	30	1	-	3-1/3-3				
	3 104 53	40	24	2	-	3-3/3-3				
	3 104 54	60	18	3	-	3-3				
	3 104 55	80	-	3	1	3-3				
	3 104 56	100	-	3	2	3-3				
	3 104 57	120	-	3	3	3-3				

* Capacity of cabinet: 18 U

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 40	6.7 kVA power module
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

120

Power: 120 kVA Backup time: 8 min 2 Cabinets

3 Control modules

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

Power: 80 kVA Backup time: 14 min 2 Cabinets

- 3 Control modules

1 Power expansion module

- 12 Power modules
- 36 Battery modules 1 Distribution module



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



Llegrand[®]

ARCHIMOD Double conversion VFI three-phase modular UPS

Cat. Nos.		3 104 51 3 104 52	3 104 53	3 104 54	3 104 55	3 104 56	3 104 57
General characteristics							
	Nominal power (kVA)	20	40	60	80	100	120
	Active power (kW)	18	36	54	72	90	108
	Module power (kVA)		6.7 per powe	r module (20 k)	/A with 3 modu	les), cosφ 0.9	
	Technology		On-	line double con	version VFI-SS	-111	
	System	Modu	lar, expandable	and redundant	t system in a siı	ngle cabinet, 19	" rack
	Hot Swap capacity	The power	and/or battery	modules can b	e replaced with	nout switching o	off the UPS
Input characteristics							
	Input voltage	230 V 1P+N,	400 V 3P+N	50 (011 00	400 V	3P+N	
	Input frequency	2201/.150	// 200/ 10	50-60 HZ ± 2%	⁶ autosensing		
	Input voltage range	400 V + 15 9	%/-20% 1P %/-20% 3P		400 V +15%	%/-20% 3P	
	THD of input current			< 3	3%		
	Compatibility with gensets	Configu	rable for synch even fo	ronisation betv r the highest fre	veen the input a equency range	and output frequ s, ± 14%	Jencies,
	Input power factor			> 0.99 at	20% load		
Output characteristics							
	Output voltage	230 V 1P,	400 V 3P		400	V 3P	
	Efficiency			Up to	95%		
	Nominal output frequency			50/60 H	Hz ± 0.1		
	Peak factor			3.5	5:1		
	Tolerance on output voltage			±1	%		
	Permitted overload	10 minutes at 125% and 60 seconds at 150%					
	Efficiency in Eco mode			99			
D (1)	Bypass		Au	tomatic and ma	aintenance bypa	ass	
Batteries							act
	Battery modules	No special operation is required to connect them					iet.
	Battery range type/voltage	VRLA - AGM/252 VDC					
	Backup time	Configurable and extendable, both internally and with additional battery cabinets					y cabinets
	Battery charging		Smart Ch	narge technolog	gy 3-step advan	ced cycle	
Communication and management							
	Screen and signalling	4 x 20-charad	cter lines, 4 me	nu navigation b	uttons, multi-c	oloured LED sta	atus indicator
	Communication ports	For each coi	ntrol module: 2 ports,	x RS232 serial 2 slots for SNM	ports, 1 logic le P interfaces (oj	evel port, 5 volt- otional)	free contact
	Back-feed protection			N/C + N/O aux	xiliary contact		
	Emergency stop			Ye	es		
	Remote control			Avai	lable		
Physical characteristics							
	Dimensions (H x W x D) (mm)			2080 x 570	x 912 (42 U)	1	1
	Installed 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				0 (000)			
0	perating temperature/humidity			0 - 40°C/	20 - 80%		
	Protection index	IP 21					
Maxi	Host discipation (DTU/-)	2720	F/40	5U t	10020	12450	14000
Conformity	near dissipation (DTU/N)	2730	5400	0170	10720	13000	10300
Contrinity	Certifications		EN	62040-1 EN 42	040-2 EN 4207	0-3	
Services				52040 I, LINOZ	5-0 2, LIN 0204		
	Installation	Can be carried	l out by the use	r, modular arch	itecture with "p	olug and play" p	ower modules
	Maintenance	Can be car	ried out by the	user, optional s	ervices availab	le from the ma	nufacturer

TRIMOD Double conversion VFI three-phase modular UPS





3 108 40



3 103 99

3 108 43

Pack	Cat. Nos.	UPS			
			BACKUP TIME	NUMBER OF	WEIGHT
		(KVA)	(min)	CABINETS	(K <u>G</u>)
	3 103 99	10	11	1	167
	3 104 00	10	17	1	223
	3 104 01	10	35	1	279
	3 104 00 + 3 107 57	10	54	2	471
	3 104 00 + 3 107 58	10	68	2	527
	3 104 05	15	13	1	220
	3 104 06	15	21	1	279
	3 104 06 + 3 107 60	15	33	2	413
	3 104 06 + 3 107 63	15	57	2	550
	3 104 04 + 3 108 08	15	110 *	2	865
	3 104 11	20	9	1	220
	3 104 12	20	14	1	279
	3 104 12 + 3 107 62	20	35	2	572
	3 104 10 + 3 108 08	20	82 *	2	865
	3 104 12 + 3 107 63	20	59	3	574
	+ 3 107 62				
	3 104 16 + 3 107 57	30	5	2	378
	3 104 16 + 3 107 63	30	12	2	434
	3 104 16 + 3 108 09	30	50*	2	890
	3 104 16 + 2 x 3 108 09	30	110 *	3	1645
	3 104 21 + 3 107 63	40	8	2	564
	3 104 21 + 2 x 3 107 58	40	16	3	801
	3 104 21 + 3 108 10	40	33 *	2	925
	3 104 21 + 3 x 3 107 59	40	38	4	439
	3 104 21 + 4 x 3 107 64	40	60	5	1663
	3 104 21 + 2 x 3,108 10	40	82*	3	1700
	3 104 21 + 3 x 3,108 10	40	120 *	4	2430
	3 104 28 + 2 x 3 107 58	60	9	3	830
	3 104 28 + 2 x 3 107 64	60	14	3	942
	3 104 28 + 3 108 11	60	17 *	2	952
	3 104 28 + 4 x 3 107 63	60	27	5	1579
	3 104 28 + 2 x 3,108 11	60	50*	3	1715
	3 104 28 + 3 x 3,108 11	60	82*	4	2474
	$310428 + 4 \times 3.10811$	60	110*	5	3234

Pack	Cat. Nos.	POWER C	ABINET			
		NOMINAL POWER kVA	ACTIVE POWER	R BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (kg)
	3 103 98	10	9	0'	1	120
	3 104 04	15	13.5	0'	1	120
	3 104 10	20	18	0'	1	120
	3 104 16	30	27	0'	1	146
	3 104 21	40	36	0'	1	146
	3 104 28	60	54	0'	1	165

POWER CABINET (EMPTY)									
	NO. OF POWER MODULES	NO. OF BATTERY MODULES	TYPE OF POWER MODULE	NO. OF PHASES					
3 104 36	3	12	3 x 3.4 kVA	1-1/3-3/3-1/1-3					
3 104 37	3	12	3 x 5 or 6.7 kVA	1-1/3-3/3-1/1-3					
3 104 38	6	-	6 x 5 kVA	3-3					
3 104 39	6	-	6 x 5 kVA	1-1/3-3/3-1/1-3					
3 104 40	6	-	6 x 6.7 kVA	3-3					
3 104 41	9	-	9 x 6.7 kVA	3-3					

	ACCESSORIES
	DESCRIPTION
3 108 36	3.4 kVA power module
3 108 38	5 kVA power module
3 108 40	6.7 kVA power module
3 108 51	Additional charger module
	ACCESSORIES FOR BATTERIES
	DESCRIPTION
3 108 54	Kit of 4 empty battery trays
3 108 43	Single battery tray with 5 x 7.2 Ah batteries (can be installed in multiples of 4)
3 108 45	Single battery tray with 5 x 9 Ah batteries
	(can be installed in multiples of 4)
	ADDITIONAL BATTERY CABINETS
	DESCRIPTION
3 108 05	Modular battery cabinet (empty) with 16 trays.
3 108 06	Modular battery cabinet (empty) with 20 trays.
3 107 55	Modular battery cabinet with 4 battery trays (7.2 Ah)
3 107 56	Modular battery cabinet with 8 battery trays (7.2 Ah)
3 107 57	Modular battery cabinet with 12 battery trays (7.2 Ah)
3 107 58	Modular battery cabinet with 16 battery trays (7.2 Ah)
3 107 59	Modular battery cabinet with 20 battery trays (7.2 Ah)
3 107 60	Modular battery cabinet with 4 battery trays (9 Ah)
3 107 61	Modular battery cabinet with 8 battery trays (9 Ah)
3 107 62	Modular battery cabinet with 12 battery trays (9 Ah)
3 107 63	Modular battery cabinet with 16 battery trays (9 Ah)
3 107 64	Modular battery cabinet with 20 battery trays (9 Ah)
3 108 07	Battery cabinet for 10 kVA UPS with 20 x 94 Ah long life batteries
3 108 08	Battery cabinet for 20 kVA UPS with 20 x 94 Ah long life batteries
3 108 09	Battery cabinet for 30 kVA UPS with 20 x 94 Ah long life batteries
3 108 10	Battery cabinet for 40 kVA UPS with 20 x 94 Ah long life batteries
3 108 11	Battery cabinet for 60 kVA UPS with 20 x 94 Ah long life batteries

* Configurations with battery cabinet (20 x 94 Ah). Battery cabinet dimensions and weight: H x W x D 1635 x 600 x 800 (mm), 785 kg

La legrand®

TRIMOD Double conversion VFI three-phase modular UPS

Cat Nos		3 103 98	3 104 04	3 104 10	3 104 16	3 104 21	3 104 28
General charac	toristics	0 100 70	0 104 04	0 104 10	0 104 10	010421	010420
Oener at charac		10	15	20	30	40	60
		0	12 5	10	27	240	54
		7	13.J E	10	27 E		
		3.4	່ <u>ງ</u> 	0.7	Uproion VEL CC	0.7	0.7
	Technology	Modularia	-nu bacadablaand	rodundant in a			rodundant
	System	Modular, e	xpanuable anu	modulai	r system	expandable and	redundant
Input character	istics						
	Input voltage		230 V 1P+N,	400 V 3P+N		400 V	3P+N
	Input frequency			50-60 Hz ± 2%	6 autosensing		
	Input voltage range	400) V +15%/-20%	- 230 V +15%/-2	0%	400 V +1	5%/-20%
	THD of input current			<	3%		
	Compatibility with gensets	Configurable	e for synchroni: h	sm between the ighest frequen	e input and outp cy ranges, ± 14º	out frequencies, %	, even for the
	Input power factor			> 0.99 at	20% load		
Output charact	eristics						
	Output voltage		230 V 1P+N,	400 V 3P +N		400 V	3P + N
	Efficiency			Up to	95%		
	Nominal output frequency		50/60	Hz can be sele	cted by the user	- ±1 Hz	
	Peak factor			3.	5:1		
	Tolerance on output voltage			±	1%		
	Permitted overload		10 min	utes at 125% ar	nd 60 seconds a	it 150%	
	Efficiency in Eco mode			98	3%		
	Bypass		Au	tomatic and ma	aintenance bypa	ass	
Batteries							
	Battery module	The battery modules are designed for easy insertion in the cabinet.				net.	
	Pattery range type /veltage	VPLA - AGM/2/0 VDC (internal reduidant range)					
	Batter y range type/voltage	Configurable and extendable both internally and with					
	Backup time	additional battery cabinets					
0	Battery charging		Smart Ch	harge technolog	gy 3-step advan	ced cycle	
Communication	hand management	(x 20 abaras	tarlinas (ma		uttono multi o	lourod L CD ata	tus indicator
	Screen and signalling	4 x 20-cilai ac	PS222 corial r	alarms and au	dible signalling		
	Communication ports	2 X		1 slot for i	interfaces	ree contact por	ιs,
	Back-feed protection			N/C + N/O au:	xiliary contact		
	Emergency stop			Ye	es		
DI	Remote control			Avai	lable		
Physical charac				1070 /	1/ /00		
	Dimensions (H X W X D) (mm)		0	137UX4	14 X 628	,	0
			3		6	6	9
			Up to 12		-	-	-
A	Net weight (kg)		120		146	146	165
Ampient condit	lons			0 (090)	/20 000/		
				0 - 40-0/	20-80%		
		IP 21					
	Maximum noise audible at 1 m (dBA)	1/0/	0155	2072	.0	E7//	0/10
Conformity	neat dissipation (BTU/h)	1430	2100	2013	4310	5746	0017
Comormity	Cartifications						
Services	Certifications		EIN	02040-2, EN 02	.0+0-0, LIN 0202	+U ⁻ 1	
Jervices	Installation	Can be ca	rried out by the	user, modular	architecture w	ith "plug and pl	ay" power
	Maintonanco	Can be car	rried out by the		arvices availab	le from the ma	nufacturer
	Easy management	Call De Cal	Advance	ed diagnostic f	unctions on the	screen	
	Easy management	t Advanced diagnostic functions on the screen					

MEGALINE Double conversion VFI single phase modular UPS



3 103 60 + 3 107 78

3 108 57









3 108 35

Pack	Cat. Nos.	SINGLE C	ABINET (Ge	rman standa	rd)	
		NOMINAL POWER (VA)	ACTIVE POWER (W)	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
310366 + 310780	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 CA	BINET (Frenc	h standard)	
NOMINAL	ACTIVE POWER	BACKUP TIME	NUMBER OF

		-			
	NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS	WEIGHT (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)									
NOMINAL ACTIVE POWER BACKUP TIME NUMBER OF WEI POWER (W) (min) CABINETS (k (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				

Pack	Cat. Nos.	SINGLE CABINET - WITHOUT BATTERIES						
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NUMBER OF CABINETS			
	3 103 51	1250	875	-	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				
	$3\ 103\ 66+3\ 108\ 59$	7500	5250	-	2				
	3 103 69 + 3 108 59	8750	6125	-	2				
	3 103 72 + 3 108 59	10000	3500	-	2				

	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
2 400 /4	
3 108 61	(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

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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 CABIN	IET	
General c	haracteristics			-					·	
	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	le conversio	n VFI-SS-111			
	Architecture	М	odular, expa	ndable, N+X ı	redundant w	ith 1250 VA p	ower cards, o	contained in a	single cabin	net
Input char	acteristics									
	Nominal input voltage					230 V				
	Input voltage range				184 V t	o 264 V at 100)% load			
	Minimum operating voltage				10	10 V at 50% lo	ad			
	THD of input current					< 3%				
	Input power factor				> ().99 at 20% lo	bad			
	Input frequency				50 Hz/60) Hz ± 2% aut	osensina			
Output cha	aracteristics						J			
	Output voltage					230 V ± 1%				
	Output frequency				50 Hz/	60 Hz synchr	onised			
	THD of output voltage				< 1% v	vith non-line	arload			
	Waveform					Sinusoidal				
	Peak factor					3 5.1				
	Efficiency					up to 92%				
	Permitted overload			3(10% for 1 s –	200% for 5 s	– 150% for 3(اد		
Backuptir	ne					2007010100	100 /0101 01			
	Backup time (min)					13				
	Extension of backup time					Yes				
Equipmen	t					100				
-1	Bypass	Automa	tic. internally	v svnchronise	ed. static and	electromech	nanical (for ov	verloads and	operating pr	oblems)
	Signalling and alarms		Wide screen	, y with 4 alphar	numeric lines	s. multi-coloi	ured status ir	dicator. audi	ble signalling	1
	Communication ports				1 RS 232	, port. 2 logic l	evel ports			,
	Communicator UPS software		Са	n be downloa	ded free of c	harge lafter r	equesting an	activation co	odel	
		Elect	ronic device	s for protecti	on against ov	verloads, sho	rt-circuits ar	id excessive l	battery disch	arge.
	Protection	-	Орен	ration stops a	at end of back Sensor for c	up time. Inru correct neutr	ish current li al switching.	miter on star	t-up.	,
		Bac	ck-feed prote	ction (electric	EPO (emer	gency power	off) contact	ring battery-t	ased operati	onJ.
	I/O mains connection	Gern	nan standaro	l/terminal co	nnector with	universal m	ulti-socket ou	utlet (Italian/0	German stan	dard)
Mechanica	al characteristics			1	1	1	1	1		
	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 2	70 x 570			2 x	: 475 x 270 x 5	570	
	Installed power cards	1	2	3	4	4	5	6	7	8
	Free power expansion slots	3	2	1	-	4	3	2	1	-
	Installed battery kits	1	2	3	4	4	5	6	7	8
	Free backup time extension slots	3	2	1	-	6	5	4	3	2
Ambient c	onditions									
	Ambient operating temperature (°C)					0 to 40				
	Protection index	IP 21								
	Relative humidity (%)					20 to 80				
	Noise at 1 m (dBA)					< 40				
Certificati	ons									
	Reference product standards				EN 62040-1,	EN 62040-2	, EN 62040-3			

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MODULAR UPS

UPS 27

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 -
- -
- 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)	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 (British standard)									
	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		3 103 87	1250	1	30		
3 103 88		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
	5
	ACCESSORIES
	ACCESSORIES DESCRIPTION
 3 108 35	ACCESSORIES DESCRIPTION Power module (PW 1250)
3 108 35 3 108 04	ACCESSORIES DESCRIPTION Power module (PW 1250) Empty battery rack cabinet
3 108 35 3 108 04 3 108 62	ACCESSORIES DESCRIPTION Power module (PW 1250) Empty battery rack cabinet Manual bypass for single rack (BP/1)
3 108 35 3 108 04 3 108 62 3 107 85	ACCESSORIES Description Power module (PW 1250) Empty battery rack cabinet Manual bypass for single rack (BP/1) Additional charger (CB 36)
3 108 35 3 108 04 3 108 62 3 107 85 3 109 72	ACCESSORIES DESCRIPTION Power module (PW 1250) Empty battery rack cabinet Manual bypass for single rack (BP/1) Additional charger (CB 36) Relay interface kit
3 108 35 3 108 04 3 108 62 3 107 85 3 109 72 3 109 73	ACCESSORIES DESCRIPTION Power module (PW 1250) Empty battery rack cabinet Manual bypass for single rack (BP/1) Additional charger (CB 36) Relay interface kit Telescopic runner kit for 6U rack

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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 charac	teristics					
	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, expandabl	e, N+X redundant with	1250 VA power cards, o	contained in a single	
Input character	istics					
	Nominal input voltage		230) V		
	Input voltage range		184 V to 264 V	at 100% load		
	Minimum operating voltage via mains		100 V at 5	50% load		
	THD of input current		< 3	1%		
	Input power factor		> 0.99 at 2	20% load		
	Input frequency		50 Hz/60 Hz ± 2	% autosensing		
Output charact	eristics					
	Output voltage		230 V	± 1%		
	Output frequency		50 Hz/60 Hz s	synchronised		
	THD of output voltage		< 1% with no	n-linear load		
	Waveform		Sinus	oidal		
	Peak factor	3.5:1				
	Efficiency	up to 92%				
	Permitted overload	300% for 1 s – 200% for 5 s – 150% for 30 s				
Backup time						
	Backup time (min)		1:	3		
	Extension of backup time		Ye	95		
Equipment						
	Bypass	Automatic	, internally synchronis (for overloads and o	ed, static and electrom perating problems).	nechanical	
	Signalling and alarms	Large screen with	n 4 alphanumeric lines, signa	multi-coloured status Illing	indicator, audible	
	Communication ports		1 RS 232 port, 2	logic level ports		
	Communicator UPS software	Can be down	loaded free of charge (after requesting an act	tivation code)	
	Protection	Electronic devices for discharge. Operation Sensor for correct ne the input plug during	protection against ove on stops at end of backu utral switching. Back-fo ng battery-based opera	rloads, short-circuits Ip time. Inrush current eed protection (electric tion). EPO (emergency	and excessive battery limiter on start-up. cal safety insulation of / power off) contact	
	I/O mains connection	German stan	dard/terminal connecto (Italian/Germ	or with universal multi an standard)	-socket outlet	
Mechanical cha	racteristics					
	Net weight (kg)	23.5	34	43	53	
	Dimensions (H x W x D) (mm)		266 x 48	33 x 582		
	Installed power cards	1	2	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 condit	ions					
	Ambient operating temperature (°C)		0 to	40		
	Protection index		IP	21		
	Relative humidity (%)	%) 20 to 80				
	Noise at 1 m (dBA)		< /	40		
Certifications						
	Reference product standards		EN 62040-1, EN 62	040-2, EN 62040-3		

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
Double cabinet				
	5000 VA	22'	2x (270 x 475 x 570)	3 103 60 + 3 107 80
	5000 VA	30'	2x (270 x 475 x 570)	3 103 60 + 3 107 82
	5000 VA	46'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 75
	5000 VA	63'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 78
	6250 VA	20'	2x (270 x 475 x 570)	3 103 63 + 3 107 81
	6250 VA	30'	2x (270 x 475 x 570)	3 103 63 + 3 107 84
	6250 VA	47'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 78
	6250 VA	60'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 81
	7500 VA	18'	2x (270 x 475 x 570)	3 103 66 + 3 107 82
	7500 VA	30'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 76
	7500 VA	48'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 81
	7500 VA	59'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 (x2)
	8750 VA	20'	2x (270 x 475 x 570)	3 103 69 + 3 107 84
	8750 VA	30'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 78
	8750 VA	45'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 83
	8750 VA	61'	4x (270 x 475 x 570)*	3 103 69 + 3 107 84 (x2) + 3 107 78
	10000 VA	22'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 76
	10000 VA	30'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 80
	10000 VA	46'	4x (270 x 475 x 570)*	3 103 72 + 3 107 84 (x2) + 3 107 76
	10000 VA	60'	4x (270 x 475 x 570)*	3 103 72 + 3 107 84 (x2) + 3 107 81

* This configuration requires the use of a Y cable Cat. No. 3 108 60. The number of cables required is equal to the total number of cabinets minus 2. NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.



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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 backup times, expressed in minutes, are measured under optimum operating conditions.



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UPS 31





CONVENTIONAL UPS



Safe, efficient, innovative solutions

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 10 kVA.

Transformer-free technology for high quality energy output with up to 93% efficiency.

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

On-Line double on UPS that can UPS that can

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.



Tower version with additional battery cabinet

L¹ legrand[®]

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.



UPS and 2-unit battery cabinet



UPS and 3-unit battery cabinet



UPS and 4-unit battery cabinet



Reversible screen

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

On-Line double conversion UPS for low and medium power applications

On-Line double ion UPS for low medium power

The distributed power, from 800 VA to 6000 VA, provides high level electrical protection for medium power devices.

The UPS comprise a single card with incorporates power, control logic, control and diagnostics.

With their compact size and slender, narrow shape, WHAD UPS take up very little space, even if they are located at a work station.

Models up to 2500 VA have a backup time that can be extended by adding battery cabinets.

The highest performance versions have a special connector for connecting SNMP communication interfaces.





La legrand®

On-Line double conversion UPS that can be extended with stackable, automaticconnection units

DHEA ENERGY STATION CONVENTIONAL SINGLE PHASE UPS

The system comprises a UPS unit and battery packs with automatic connections and a hot-swap system.

The compact size (depth: 185 mm) enables the UPS to be installed in very small spaces.

The special sealed, fume-free batteries enable it to be used in the home.



Daker Dk Conventional UPS - Single phase 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 integral 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	IPS WITH B/	ATTERIES		Pack	Cat. Nos.	MISCELLANEOUS ACCESSORIES
		NOMINAL POWER	ACTIVE	BACKUP TIME	WEIGHT			DESCRIPTION
		(VA)	POWER (W)	(min)	(kg)		3 109 50	Additional 200 W charger (for Daker DK 1000-2000-3000)
	3 100 50	1000	800	10	16		3 109 54	Additional 1000 W charger (for Daker DK 4500-6000-10000)
	3 100 51	2000	1600	10	29.5		3 109 52	Rack support bracket kit
	3 100 52	3000	2400	8	30		3 109 53	External manual bypass (for Daker DK 1000-2000-3000)
	3 100 53	4500	4050	6	60		3 109 69	Volt-free contact card
	3 100 54	6000	5400	4	60			

		CONVERTIBLE U	IPS WITHOU	IT BATTERIES					
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	WEIGHT (kg)				
	3 100 56	4500	4050	-	25				
	3 100 57	6000	5400	-	25				
	3 100 58	10000	9000	-	26				
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	Rattery cabinet for 3 100 51 (12 x 12 V 7 2 Ab 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)

	DESCRIPTION
3 107 50	Battery cabinet for 3 100 50 (for 12 x 12 V, 7.2 Ah batteries)
3 107 51	Battery cabinet for 3 100 51 (for 12 x 12 V, 7.2 Ah batteries)
3 107 52	Battery cabinet for 3 100 52 (for 12 x 12 V, 9 Ah batteries)
3 107 53	Battery cabinet for 3 100 56 and 3 100 57 (for 20 x 12 V, 7.2 Ah batteries)
3 107 54	Battery cabinet for 3 100 58 (for 20 x 12 V, 9 Ah batteries)

legrand[®]

Daker Dk Conventional UPS - Single phase 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	
General characteristics									
Nominal power (V.	A) 1000	2000	3000	45	00	60	00	10000	
Active power (V	/) 800	1600	2400	40	50	54	.00	9000	
Technolog	у		On-	line double cor	version VFI-SS	5-111			
Wavefor	n			Sinus	soidal				
Architectu	e	Convertible tower and 19" rack							
Input characteristics									
Input voltag	e			23	0 V				
Input frequen	у	50-60 Hz ± 5% autosensing							
Input voltage rang	e	160 V - 288 V full load							
THD of input curre	nt	< 3%							
Input power fact	r			> (1.99				
Compatibility with gense	s Configurabl	e for synchroni	ism between th	ne input and ou ± 1	tput frequenci 4%	es, even for the	e highest frequ	ency ranges,	
Output characteristics									
Output voltag	e			230 \	/ ± 1%				
Output frequency (nomina	1)		50/60 Hz	z (configurable	via LCD panel)	+/- 0.1%			
Peak fact	r			1	:3				
THD of output voltage	e			< 3% with	linear load				
Output voltage tolerand	e			±	1%				
Вура	Automatic b	ypass and optio manual bypass	onal external S						
Batteries									
Backup time extension	n	1		Y	es	1	1	1	
Number of batteri	s 3	6	6	20	-	20	-	-	
Battery range type/volta	e 12 V 7.2 Ah	12 V 7.2 Ah	12 V 9 Ah	12 V 5 Ah	-	12 V 5 Ah	-	-	
Backup time (mi	n) 10	10	8	6	-	4	-	-	
Communication and management									
Screen and signalli	g Four	buttons and for	ur LEDs for rea	al-time control	of the status a	nd the main pa	rameters of th	e UPS	
Communication por	s RS232	and USB seria	al ports		R	5232 serial por	ts		
Remote contr	ol			Avai	lable				
Connector for network interfa	e			SN	MP				
Back feed protection	n			у	es				
Emergency power off (EP)]			у	25				
Mechanical characteristics			1						
Dimensions (H x W x D) (mr	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 (k	g) 16	29.5	30	52	25*	52	25*	26*	
Dimensions of battery cabin H x W x D (mr	et 440x176 (4U) n) x405	440x88 (2U) x650	440x88 (2U) x650	-	440x132 (3U) x680	-	440x132 (3U) x680	440x132 (3U) x680	
Ambient conditions				-					
Operating temperature (°				0 ÷ 4	40°C				
Protection ind	x IP 21								
Relative humidity (6) 20 to 80%								
Noise at 1 m (dB	A)		1	<	50				
Heat dissipation (BTU/	n) 490	654	818	9	82	1310		1636	
Certifications									
Reference product standar	S	EN 62040-1, EN 62040-2, EN 62040-3							

* Weight without batteries

	CONVENTIONAL UPS	UPS	39
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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)
	3000 VA	8'	440 x 88 x 650	3 100 52
		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)
DalianDK		1h 33'	440 x 88 x 650 (x4)	3 100 52 + 3 107 71 (x3)
Daker 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
	4000 \/A	29'	440 x 88 x 650 + 440 x 132 x 680 (x2)	3 100 57 + 3 107 72 (x2)
	0000 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)

	1000 VA 2 cabinets W 2U + 4U	3000 VA 3 cabinets W 2U +2 U + 2U	6000 VA 2 cabinets W 2U + 3U	10000 VA 2 cabinets W 3U + 3U
TOWER version				
	1000 VA 2 cabinets	4500 VA 3 cabinets	6000 VA 2 cabinets	10000 VA 2 cabinets
RACK version	H 6U (264 mm)	H 6U (264 mm)	5U (320 mm)	H 6U (264 mm)

Llegrand®

DHEA Conventional UPS - Single phase On-line double conversion VFI



3 101 08



3 107 73

System can be combined with a genset to increase the backup time if there are -Prolonged faults. Battery packs with integrated batteries and automatic connectors. Up to 10 battery packs can be added.

-

-UPS supply voltage only present when the pack is connected.

Pack	Cat. Nos.	ENERGY STATIONS	
		NOMINAL POWER VA	ACTIVE POWER W
	3 101 07	1000	700
	3 101 08	1500	1050

	BATTERIES
	DESCRIPTION
3 107 73	Battery pack

Cat	. Nos.	3 101 07	3 101 08		
Ger	neral characteristics				
	Nominal power (VA)	1000	1500		
	Active power (W)	700	1050		
	Technology	On-line doub	le conversion		
	Waveform	Sinus	soidal		
	Nominal input voltage	23	0 V		
	Input voltage range	184 V ÷ 265 V	at 100% load		
	Minimum mains operating voltage	184 V with nominal I nomin	load/100 V at 50% of al load		
	Input frequency	50/60 Hz ± 2% (± 14%	% in extended range)		
	Input power factor	20% load			
	Output voltage	230 V	′±1%		
	Output voltage distortion	< `	1%		
	Output frequency (battery operation)	50/60 H	Hz ± 1%		
	Batteries	2 x 36 V 7.2 Ah stac	king battery packs		
	Acoustic noise at 1 m (dBA)	< /	40		
	Net weight (kg)	4 (UPS) + 16 (battery pack)		
	Dimensions (H x W x D) (mm)	309 x 450 x 170 (UPS) - 125 x 450 x 170 (battery pack)			
	Regulations	EN 62040-1, EN 62	040-2, EN 62040-3		
	External connections	1 x RS 232 + 3 contact outputs (2 poles) + EPO			
	Protection index	IP	21		
	Output sockets	1 line	3 lines (2 of which are timed)		

No. of battery	Backup time						
packs	1000 VA	1500 VA					
1	38′	22'					
2	1h 24'	53′					
3	2h 16'	1h 25'					
4	3h 16'	1h 56'					
5	4h 8'	2h 40'					
6	5h 4'	3h 18'					
7	5h 46'	3h 53'					
8	6h 55'	4h 32'					
9	8h 8'	5h 7'					
10	9h 7'	5h 36'					

WHAD Conventional UPS - Single phase On-line double conversion VFI







All models have:

Logic level port which can be connected to a relay interface kit (except for Cat. Nos 3 100 87, 3 100 90 and 3 100 93).
 Stot for connecting internal versions of SNMP, CS121 SK and CS121B SK communication interfaces (for 3, 4, 5 and 6 kVA).
 An external maintenance bypass device can be connected, which is designed to be connected to the I/O connector on the back of the UPS

(for 3, 4, 5 and 6 kVA).

Pack	Cat Nos	IIPS WITH GERI	ΜΑΝ STAND	ARD SOCKETS					
3 100 87 3 100 90		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	WEIGHT (kg)				
	3 100 87	800	560	24	12				
	3 100 90	1000	700	18	12				
	3 100 93	1500	1050	10	12				
	3 100 96	2000	1400	13	23				
	3 100 97	2500	1750	10	23				
	3 100 98	3000	2100	23	55				
	3 100 99	4000	2800	14	55				
	3 101 00	5000	3500	16	65				
	3 101 01	6000	4200	12	65				
		UPS WITH FREM	ICH STANDA	RD SOCKETS					
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	WEIGHT (kg)				
	3 100 88	800	560	24	12				
	3 100 91	1000	700	18	12				
	3 100 94	1500	1500 1050	10	12				
	3 101 09	2000	1400	13	23				
	3 101 11	2500	1750	10	23				
		UPS WITH BRIT	ISH STAND	ARD SOCKETS					
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	WEIGHT (kg)				
	3 100 89	800	560	24	12				
	3 100 92	1000	700	18	12				
	3 100 95	1500	1050	10	12				
	3 101 10	2000	1400	13	23				
	3 101 12	2500	1750	10	23				
		MISCELLANEOU	IS ACCESSO	RIES					
		DESCRIPTION							
	3 107 74	Additional battery cabinet for 800 - 1000 - 1500							

Model	Power	Backup time	Dimensions and no. of cabinets H x W x D (mm)	Cat. Nos.
	000.1/4	1h 40'	88 x 355 x 390 + 160 x 319 x 390	3 100 87 + 3 107 74
	000 VA	3h 5'	88 x 355 x 390 + 160 x 319 x 390 (x2)	3 100 87 + 3 107 74 (x2)*
	1000 \/A	1h 15'	88 x 355 x 390 + 160 x 319 x 390	3 100 90 + 3 107 74
	1000 VA	2h 23'	88 x 355 x 390 + 160 x 319 x 390 (x2)	3 100 90 + 3 107 74 (x2)*
	1500 VA	40'	88 x 355 x 390 + 160 x 319 x 390	3 100 93 + 3 107 74
WIAD		1h 30'	88 x 355 x 390 + 160 x 319 x 390 (x2)	3 100 93 + 3 107 74 (x2)*
	2000 VA	47'	460 x 160 x 425 + 160 x 319 x 390	3 100 96 + 3 108 20
		1h 23'	460 x 160 x 425 + 2x(160 x 319 x 390)	3 100 96 + 3,108 20 (x2)*
	2500 \/A	38'	460 x 160 x 425 + 160 x 319 x 390	3 100 97 + 3 108 20
	2500 VA	1h 7′	460 x 160 x 425+ 2x(160 x 319 x 390)	3 100 97 + 3,108 20 (x2)*

* This configuration requires the use of a Y cable Cat. No. 3 109 71. The number of cables required is equal to the total number of cabinets minus 1.

Additional battery cabinet for 2000 - 2500 3 108 20 3 109 71 Y cable for connecting two battery cabinets 3 108 62 Manual bypass for 3000 VA/4000 VA UPS 3 109 77 Manual bypass for 5000 VA/6000 VA UPS 3 109 72 Relay interface kit

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WHAD Conventional UPS - Single phase On-line double conversion VFI

Cat. Nos.		3 100 87 3 100 88 3 100 89	3 100 90 3 100 91 3 100 92	3 100 93 3 100 94 3 100 95	3 100 96 3 101 09 3 101 10	3 100 97 3 101 11 3 101 12	3 100 98	3 100 99	3 101 00	3 101 01
General char	acteristics									
	Nominal power (VA)	800	1000	1500	2000	2500	3000	4000	5000	6000
	Active power (W)	560	700	1050	1400	1750	2100	2800	3500	4200
	Technology			C)n-line doub	le conversio	on VFI-SS-11	11		
	Waveform					Sinusoidal				
	Architecture			Cor	nventional w	ith extenda	ble backup t	ime		
Input charact	teristics									
	Input voltage	e 230 V								
	Input frequency	y $50-60$ Hz \pm 5% autosensing								
	Input voltage range				184 V÷	265 V at 100	% load			
	THD of input current					3%				
	Input power factor					> 0.99				
Output chara	cteristics									
	Output voltage					230 V ± 1%				
	Efficiency		up to 93%		up to	92%		up to	94%	
	Output frequency (nominal)				50/60	Hz synchro	nised	sed		
	Peak factor	3.5:1								
	THD of output voltage					1%				
	Permitted overload			300%	for 1 sec, 20)0% for 5 se	c, 150% for 3	30 sec		
	Bypass	Autor	natic, interr	nal, synchroi	nised, electr	omechanic	al (for overlo	ads and op	erating prob	lems)
Batteries										
	Backup time extension			Yes				Ν	lo	
	Battery range type/voltage	VRL	A - AGM 48	VDC	VRLA - AG	M 36VDC	VRLA - AG	M 144 VDC	C VRLA - AGM 192 VDC	
	Backup time (min)	24	18	10	13	10	23	14	16	12
Communicat	ion and management									
	Screen and signalling		Mu	lti-coloured	LED status	indicator, al	arms and au	udible signa	lling	
	Communication ports	1 R:	6232 serial	port	1 RS 232 s 1 logic l	erial port, evel port	1 RS 232 s for n	serial port, 1 etwork inte (eg: C	logic level p rface conne S121)	oort, 1 slot ction
	Remote control			Soft	ware can be	e downloade	ed free of cha	arge		
Mechanical c	haracteristics									
	Dimensions (H x W x D) (mm)	3	55 x 88 x 39	0	460 x 1	60 x 425		475 x 2'	70 x 570	
	Dimensions of battery cabinet (H x W x D) (mm)	3	19 x 160 x 40)2	319 x 10	50 x 402			-	
	Net weight (kg)		12		2	3	5	5	6	5
Ambient cond	ditions									
	Ambient operating temperature (°C)					0 to 40				
	Relative humidity (%)	20 to 80								
	Protection index					IP 21				
	Noise at 1 m (dBA)		< 40		<	42	< 40			
	Heat dissipation (BTU/h)	150	190	287	380	478	570	760	952	1140
Certifications	5									
	Reference product standards EN 62040-1, EN 62040-2, EN 62040-3									

	CONVENTIONAL UPS	UPS	43
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L¹ legrand[®]

LINE INTERACTIVE UPS



Simple, reliable, low-cost solutions

Compact, easy to install and configure.

With an electronic voltage regulator, an LED indicator and telephone protection, they provide total, reliable protection of the installation. They provide an excellent quality/ price ratio and guarantee of a lasting investment.

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.



Niky line interactive

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

L¹ legrand[®]



Niky S line interactive

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

Niky Line Interactive UPS - Single phase VI





3 100 00

Pack	Cat. Nos.	UPS WITH GERMAN STANDARD OUTPUT SOCKETS								
		NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NO. OF SOCKETS IEC	NO. OF GERMAN STANDARD SOCKETS	COMMUNIC. PORTS			
	3 100 00	600	300	5 to 30	-	1	USB			
	3 100 01	800	400	5 to 30	-	1	USB			

UPS WITH GERMAN STANDARD OUTPUT SOCKETS + IEC SOCKET

	NOMINAL POWER (VA)	ACTIVE POWER (W)	BACKUP TIME (min)	NO. OF IEC SOCKETS	NO. OF GERMAN STANDARD SOCKETS	COMMUNIC. PORTS
3 100 09	600	300	5 to 30	1	1	USB
3 100 10	800	400	5 to 30	1	1	USB
3 100 13	1000	600	5 to 30	2	2	RS232
3 100 14	1500	900	5 to 30	2	2	RS232

UPS WITH IEC MULTI-SOCKET OUTLETS

	NOMINAL	ACTIVE	BACKUP TIME	NO. OF IEC	NO. OF	COMMUNIC.
	(VA)	(W)	(min)	SOCKETS	GERMAN STANDARD	PORTS
					SOCKETS	
3 100 02	600	300	5 to 30	3	-	USB
3 100 03	800	400	5 to 30	3	-	USB
3 100 04	1000	600	5 to 30	6	-	USB
3 100 05	1500	900	5 to 30	6	-	USB

Cat. Nos.	3 100 00 3 100 02 3 100 09	3 100 01 3 100 03 3 100 10	3 100 04 3 100 13	3 100 05 3 100 14
General characteristics				
Nominal power (VA)	600	800	1000	1500
Active power (W)	300	400	600	900
Technology		Line inte	ractive VI	
Waveform		Pseudo-s	sinusoidal	
Input characteristics				
Input voltage		23	0 V	
Input frequency		50-6	0 Hz	
Input voltage range		160 V-	-290 V	
Output characteristics	1			
Output voltage		230 V	± 10%	
Output frequency (nominal)	50/60 Hz +/-1%			
THD of output voltage	< 3% with linear load			
Batteries				
Number of batteries	1	1	2	2
Battery range type/ voltage	12 V, 7 Ah	12 V, 9 Ah	12 V, 7 Ah	12 V, 9 Ah
Communication and manager	nent		1	
Screen and signalling	One button for rea con	and 2 LEDs al-time trol	One button for rea con	and 4 LEDs al-time trol
Telephone protection		RJ 11,	/RJ 45	
Remote control		Avai	lable	
Mechanical characteristics				
Dimensions H x W x D (mm)	171x9	5x349	239x14	47x354
Net weight (kg)	7	7.5	13	16
Ambient conditions				
Ambient operating temperature (°C)	0 to 40°C			
Relative humidity (%)	0 to 95%			
Noise at 1 m (dBA)	< 40			
Certifications				
Reference product standards EN 62040-1, EN 62040-2, EN 62040-3				

NOTE: The backup times, expressed in minutes, are measured under optimum operating conditions.

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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	б	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.					
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	attery	
Input frequency		50-6	0 Hz		
Input voltage range		160 V-	-290 V		
Output characteristics					
Output voltage		230 V	± 10%		
Output frequency (nominal)	50/60 Hz +/-0.2%				
THD of output voltage		< 3% with	linear load		
Batteries					
Number of batteries	2	2	4	4	
Battery range type/voltage	12 V, 7 Ah	12 V, 9 Ah	12 V, 7 Ah	12 V, 9 Ah	
Communication and managen	nent				
Screen and signalling	Three bu col	ttons and thr ntrol of the st	ree LEDs for atus of the U	real-time PS	
Telephone protection		RJ 11/	/RJ 45		
Remote control		Avai	lable		
Mechanical characteristics					
Dimensions H x W x D (mm)	247x17	73x369	247x17	′3x465	
Net weight (kg)	13	15	22	24	
Ambient conditions					
Ambient operating temperature (°C)	0 to 40°C				
Relative humidity (%)	0 to 95% non-condensing				
Noise at 1 m (dBA)	< 40				
Certifications					
Reference product standards	EN 62040-1, EN 62040-2, EN 62040-3				

1000-1500-2000 VA	3000 VA





COMMUNICATION ACCESSORIES



UPS supervision system

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



- Ethernet 10/100 Base-T (half-duplex and full-duplex) connection with auto-recognition function
- DHCP function
- 1 RCCMD licence included

Available in internal and external versions, it is inserted in a dedicated slot in the UPS. Supply voltage 9 - 30 VDC (power supply included in external versions). The professional and industrial versions have programmable digital contacts and additional RS 232/RS 485 communication ports.

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.



Model	А	В	С
CS121B	Х		
CS121B SK	Х		
CS121	Х	Х	Х
CS121 SK	Х	Х	Х
CS121M	Х	Х*	Х
CS121M SK	Х	Х*	Х

* Only Modbus over RS 485

Clearand

0 to 10

9 to 24

9 to 24

70 x 126 x 30

ACCESSORIES

Sensors and other accessories



		·
SM_T	3 109 00	Temperature sensor that can only be used with SensorManager. It enables another "SM_T" sensor to be connected using a special connector.
SM_T_H	3 109 01	Combined temperature and humidity sensor that can only be used with SensorManager.
Door sensor	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

Analogue inputs (V)

10 mA digital outputs (V)

Dimensions (WxDxH) (mm)

Digital inputs (V)

	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

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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. 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	RJ111 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
UNMS	3 108 94	UNMS licence for 250 UPS
UNMS	3 108 95	UNMS licence for 500 UPS
UNMS	3 108 96	UNMS licence for 1000 UPS

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

LOCAL PROTECTION

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



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.



Customer services

Reliable

LEGRAND ensures its customers get the highest level of reliability from its products and services. Quality, efficiency and innovation are the key points of the whole range.

Excellent

A team of qualified, professional specialists is available to answer customers' technical and commercial questions quickly and efficiently, in order to reduce machine stoppages.

Specific

The offer is centred around the specific requirements of each customer. LEGRAND provides a personalised Scheduled Maintenance support service with made-to-measure assistance programmes and preset licence fees.

Clegrand[®]

UPS PowerCall

UPS PowerCall is the monitoring and remote diagnostics system which provides continuous checking of the UPS via the 24-hour a day, 365 days-a-year link with the control centre. The PowerCall service provides day-to-day support, real-time remote diagnostics and fast on-site response if there are problems.

During normal operation:

The UPS sends data to the control centre, the information is collected, logged and evaluated by a team of experts. The data that is collected is recorded in a report that is sent regularly to customers.



If there is a problem, there are 3 possible solutions, depending on how serious it is:

- The event is logged
- The problem is solved remotely
- An engineer is sent on-site

If there is an emergency:

The technical department deals with the customer's request in real time. The customer is contacted immediately in order to check the operating conditions of the UPS.

A specialist engineer goes to the site to repair the fault.



ON-SITE WARRANTY

Provides for the visit of an engineer to the site where the product to be repaired is installed.

In the standard on-site warranty, the engineer will visit within 3 working days of the call, and 2 days for MV range UPS. Customers can choose a made-to-measure warranty if they subsequently want to reduce the response time.

Types of warranty

2 types of warranty are available to meet customers' requirements.

EXCHANGE WARRANTY

Provides for total replacement of the product if there is a fault or a malfunction. After noting the problem, the technical department sends the customer a form with instructions for returning the UPS.



CONSULTANCY CONCERNING A PROJECT

Assistance with designing installations with UPS, in line with current regulations. Definition of the most suitable solution for the customer's requirements.

CONFIGURATION AND SIZING

Checking the requirements of the application to be protected and selection of the most suitable UPS.

ANALYSIS OF THE INSTALLATION

Measurement of overall consumption trends in the installation and the applications to be protected.

WARRANTY MANAGEMENT

Dedicated technical staff, specialist services and hotline for products under warranty.



INSTALLATION

On-site installation and start-up.
PREVENTIVE MAINTENANCE

Regular maintenance to ensure reliability of the UPS over time and to prevent any faults or problems.

REMOTE MANAGEMENT

Remote monitoring, real-time diagnostics and automatic activation of the repair service.

BATTERY REPLACEMENT

"Turnkey" replacement of battery packs.

HARDWARE UPDATES

Updating of the power and backup time of the equipment, for modular UPS.

NOTES

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In accordance with its policy of continuous improvement, the Company reserves the right to change specifications and designs without notice. All illustrations, descriptions, dimensions and weights in this catalogue are for guidance and cannot be held binding on the Company.