UPS UNINTERRUPTIBLE POWER SUPPLY







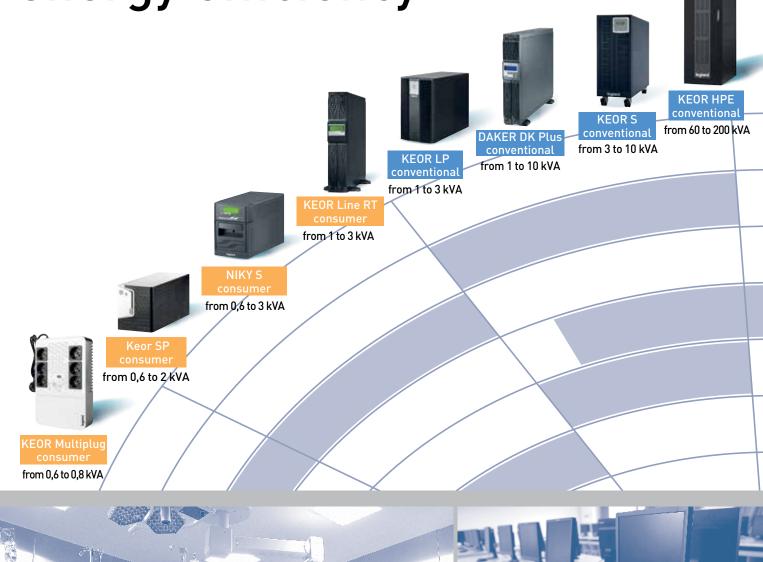
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UPS

superior performance service continuity energy efficiency





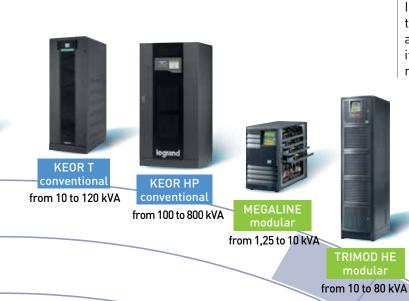


Legrand, world leader in the manufacture of electrical equipment, offers an extensive range

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

a constantly changing market, Legrand is now offering its new range of UPS and additional functions to ensure maximum continuity of service for all installations.





Keor MOD modular from 25 to 250 kW



ARCHIMOD HE240/480 modular

from 240 kVA to 480 kVA





High efficiency

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

Advanced technology

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

Environmentally responsible approach

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

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



Reliable electronics

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

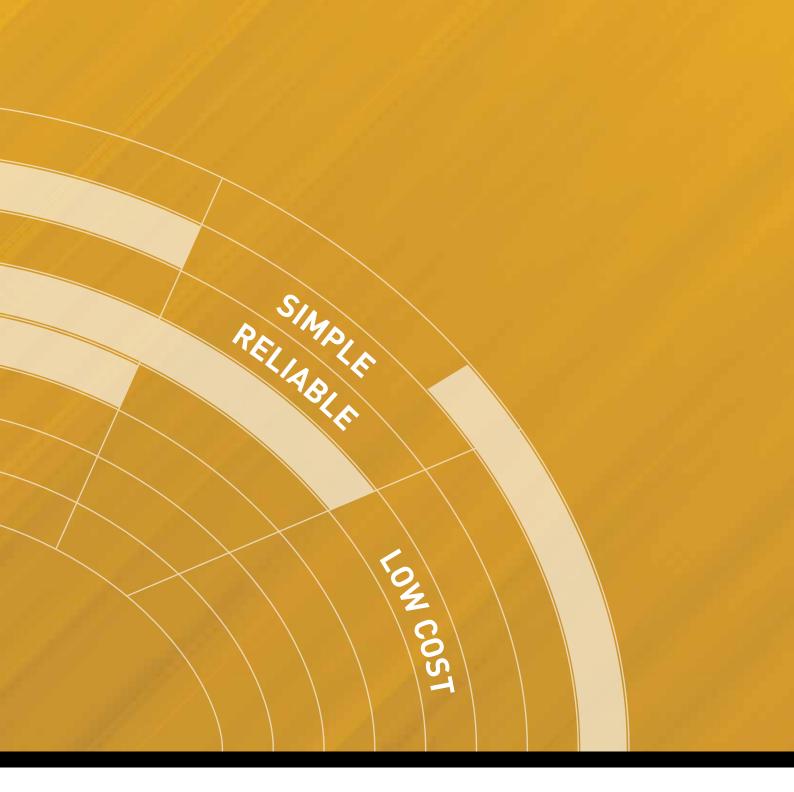
Latest generation components

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

High performance batteries

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

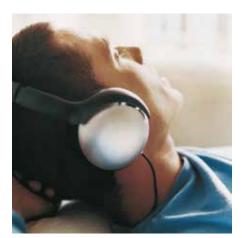
UPS



APPLICATION FIELDS







Shops Small office Home Entertainment systems

CONSUMER AND SOHO UPS

up to 3 kVA



Keor MultiplugSingle-phase
600 and 800VA



Keor SpSingle-phase
line interactive UPS VI,
from 600 up to 2000VA



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



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

CHARACTERISTICS OF THE RANGE

Compact, easy to install and configure.

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

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

Keor Multiplug

Single phase VI

Keor Multiplug

Single phase VI



3 100 83

Automatic start-up: when there is no mains supply or it is of poor quality, the UPS continues working using a battery and switches off if the network breaking time exceeds the Backup time.
Technical characteristics
- Replaceable fuse for fine protection in case of short-circuits
- LED indicators
- Internal AVR (Automatic Voltage Regulator)
- USB Charger
- Available outputs sockets in German or French type

	Cat. No.		Multi-socket UPS					
			4 backup sockets with protection from voltage surges 2 sockets with protection from voltage surges					
	French standard	German standard	Nominal power (VA)	Active power (W)	Backup time (min)	No. of sockets		
	3 100 83	3 100 81	600	360	up to 15	4+2		
	3 100 84	3 100 82	800	480	up to 15	4+2		

Characteristics		
General characteristics	3 100 83 3 100 81	3 100 84 3 100 82
Nominal power (VA)	600	800
Active power (W)	360	480
Technology	Line Inter	ractive VI
Waveform	Simulated	SineWave
Input characteristics		
Input voltage	230	0 V
Input frequency	50-60 Hz	z +/- 5Hz
Input voltage range	170 V-	290 V
Output characteristics		
Output voltage	230 V	± 10%
Output frequency (nominal)	50/60 Hz +/-1 Hz	
USB charger/Voltage	Type A fe	male/5 V
Mechanical characterist	ics	
$\begin{array}{c} \text{Dimensions} \\ \text{W} \times \text{H} \times \text{D} \text{ (mm)} \end{array}$	190 x 89	.5 x 296
Net weight (kg)	5	5,5
Ambient conditions		
Ambient operating temperature (°C)	0 to 4	40°C
Relative humidity (%)	< 95% non-	condensing
Noise at 1 m (dBA)	<.	40
Certifications		
Reference product standards	EN 62040-1,	EN 62040-2

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



Keor SP

Single phase VI

Keor SP Single phase VI





3 101 83

3 101 92

- Technical characteristics
 3 colors LED bar
 Mute button
 Internal AVR (Automatic Voltage Regulator)
- Available outputs sockets in IEC, German or French type

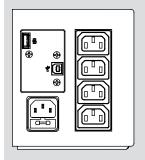
	Cat. Nos.	UPS in	ternatio	nal socket			
		Nominal power VA	Active power W	Backup time (min)	No. of sockets IEC	Communication ports	
(3 101 80	600	360	up to 15	4	USB HID	
(3 101 83	800	480	up to 15	4	USB HID	
(3 101 86	1000	600	up to 10	6	USB HID	
(3 101 89	1500	900	up to 10	6	USB HID	
(3 101 92	2000	1200	up to 10	6	USB HID	
	IJPS with IFC+ German socket						

	UPS with IEC+ German socket					
	Nominal power VA	Active power W	Backup time (min)	No. of sockets IEC+GER	Communication ports	
3 101 81	600	360	up to 15	1+1	USB HID	
3 101 84	800	480	up to 15	1+1	USB HID	
3 101 87	1000	600	up to 10	2+2	USB HID	
3 101 90	1500	900	up to 10	2+2	USB HID	
3 101 93	2000	1200	up to 10	2+2	USB HID	

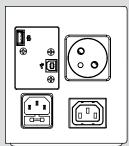
	UPS with IEC+ French socket						
	Nominal power VA	Active power W	Backup time (min)	No. of sockets IEC+FR	Communication ports		
3 101 82	600	360	up to 15	1+1	USB HID		
3 101 85	800	480	up to 15	1+1	USB HID		
3 101 88	1000	600	up to 10	2+2	USB HID		
3 101 91	1500	900	up to 10	2+2	USB HID		
3 101 94	2000	1200	up to 10	2+2	USB HID		

Characteristics					
General characteristics	3 101 81	3 101 83 3 101 84 3 101 85	3 101 87	3 101 90	3 101 93
Nominal power (VA)	600	800	1000	1500	2000
Active power (W)	360	480	600	900	1200
Technology		Line	Interactiv	ve VI	
Waveform		Simul	ated Sine	Wave	
Input characteristics					
Input voltage			30 V ± 10		
Input frequency			60 Hz +/-		
Input voltage range		1	70 V-290	V	
Output characteristics					
Output voltage		23	30 V ± 10	<u>%</u>	
Output frequency (nominal)		50/6	60 Hz +/-	1Hz	
USB charger/Voltage	-		Type A fe	male / 5 \	/
Communication and ma	nageme	nt			
Screen and signalling		outtons ar ontrol of the			
Remote control			Available		
Mechanical characterist	ics				
Dimensions W x H x D (mm)	120 x 10	38 x 330	148 x 173 x 38		380
Net weight (kg)	5	5,5	9	10,5	11,8
Ambient conditions					
Ambient operating temperature (°C)	0 to 40°C				
Relative humidity (%)					
Noise at 1 m (dBA)			< 40		
Certifications					
Reference product standards		EN 6204	10-1, EN (62040-2	

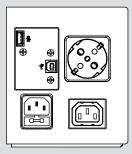
IEC Socket



French socket



German Socket



NOTE: The pictures refer to Keor SP 800 model

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

UPS

NIKYS

Single phase VI-SS



3 100 06

Technical characteristics

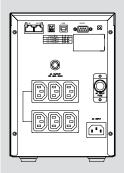
- Sinusoidal output
- Microprocessor control MODEM/LAN telephone protection RS232 or USB interface
- Cold start function

- Protection against voltage peaks
 Integrated self-diagnostics
 Intelligent battery management
 Overload and short-circuit protection
 Excellent voltage regulation

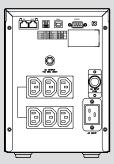
Cat. Nos.	UPS with IEC socket				
	Nominal power VA	Active power W	Backup time (min)	No. of sockets IEC	Communication ports
3 100 06	1000	600	5	6	USB-RS232
3 100 20	1500	900	5	6	USB-RS232
3 100 07	2000	1200	5	6	USB-RS232
3 100 08	3000	1800	5	6	USB-RS232

Characteristics				
General characteristics	3 100 06	3 100 20	3 100 07	3 100 08
Nominal power (VA)	1000	1500	2000	3000
Active power (W)	600	900	1200	1800
Technology		Line intera	ctive VI-SS	
Waveform		Sinus	oidal	
Input characteristics				
Input voltage		230 V	± 10%	
Input frequency		50-60 Hz	z +/- 3Hz	
Input voltage range		160 V-	-290 V	
Output characteristics				
Output voltage		230 V	± 10%	
Output frequency (nominal)	50/60 Hz +/-0.2%			
THD of output voltage		< 3% with	linear load	
Communication and ma	nagement			
Screen and signalling	and thr	Display wiree LEDs for the status	r real-time	control
Telephone protection		RJ 11/	'RJ 45	
Remote control		Avai	lable	
Mechanical characterist	ics			
Dimensions	247x17	73x369	247x17	70v46E
$H \times W \times D (mm)$			217711	3X403
H x W x D (mm) Net weight (kg)	13	15	22	24
Net weight (kg)	13	15		
Net weight (kg)	13			
Net weight (kg) Ambient conditions Ambient operating			22 40°C	24
Net weight (kg) Ambient conditions Ambient operating temperature (°C)		0 to 4	22 40°C	24
Net weight (kg) Ambient conditions Ambient operating temperature (°C) Relative humidity (%)		0 to 4	22 40°C -condensir	24

1000-1500-2000 VA



3000 VA



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



KEOR LINE RT

Line Interactive UPS - Single phase VI-SS



Cat. Nos. UPS with IEC socket

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

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

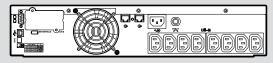
Characteristics

General characteristics	3 100 45	3 100 46	3 100 47	3 100 48
Nominal power (VA)	1000	1500	2200	3000
Active power (W)	900	1350	1980	2700
Technology		Line intera	ctive VI-SS	
Waveform		Sinus	soidal	
Input characteristics				
Input voltage		230 V	± 10 %	
Input frequency		45-6	5 Hz	
Input voltage range		165 V-	-300 V	
Output characteristics				
Output voltage		230 V	± 10 %	
Output frequency (nominal)	50/60 Hz +/-0,5 % autosensing		sing	
THD of output voltage	< 3 % with linear load			
Communication and management				
Communication and ma	mayement			
Screen and signalling	Three but	tons, displa	ay and three he status of	LEDs for
Screen and	Three but	tons, displa	he status of	e LEDs for the UPS
Screen and signalling	Three but	tons, displace control of t	he status of	e LEDs for f the UPS
Screen and signalling Telephone protection	Three but real-time	tons, displace control of t	he status of RJ45	e LEDs for f the UPS
Screen and signalling Telephone protection Remote control	Three but real-time	tons, displace control of t	he status of RJ45	the UPS
Screen and signalling Telephone protection Remote control Mechanical characteris Dimensions	Three but real-time	tons, displa control of t RJ11/ SNMI	he status of RJ45 P Slot	the UPS
Screen and signalling Telephone protection Remote control Mechanical characteris Dimensions W x D x H (mm)	Three but real-time	tons, displa control of t RJ11/ SNMI	he status of RJ45 P Slot 440x6	the UPS 50x88
Screen and signalling Telephone protection Remote control Mechanical characteris Dimensions W x D x H (mm) Net weight (kg)	Three but real-time	tons, displa control of t RJ11/ SNMI	ne status of RJ45 P Slot 440x6 34	the UPS 50x88
Screen and signalling Telephone protection Remote control Mechanical characteris Dimensions W x D x H (mm) Net weight (kg) Ambient conditions Ambient operating	Three but real-time	tons, displacentrol of to RJ11/SNMI	ne status of RJ45 P Slot 440x6 34	50x88 37

1000-1500 VA

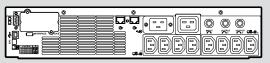
Certifications

Reference product standards

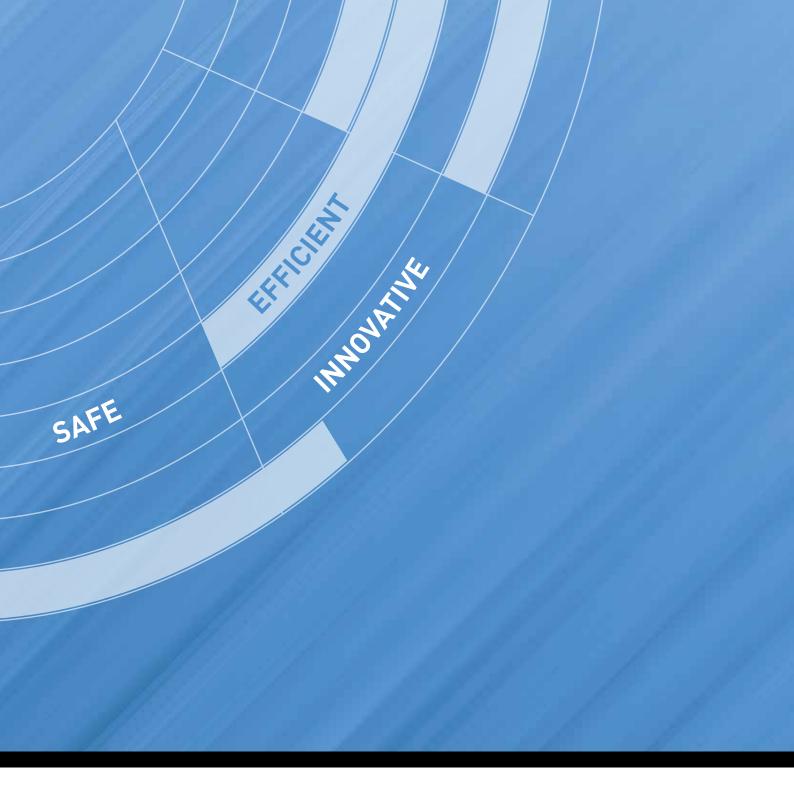


EN62040-1, EN62040-2, EN62040-3

2200-3000 VA



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



APPLICATION FIELDS



Hospital and healthcare



Office and working areas



Museum



CONVENTIONAL **UPS**

from 0,8 up to 800 kVA



Keor LP Single-phase **UPS** from 1 to 3 kVA



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



Keor S Single-phase **UPS** from 3 to 10 kVA



Keor T/Keor T evo Three-phase **UPS VFI from** 10 to 120 kVA



Keor HPE Three-phase UPS VFI from 60 kVA to 200 kVA



Keor HP Three-phase **UPS VFI from** 100 to 800 kVA

CHARACTERISTICS OF THE RANGE

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

Professional solutions with power up to 800 kVA.

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

UPS

DAKER DK Plus

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.

The models from 5 to 10 kVA have power factor 1 with an efficiency of up to 94%.

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





Three standard sizes for power up to 10 kVA

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



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 Plus UPS can be used in both tower and 19" rack configuration.



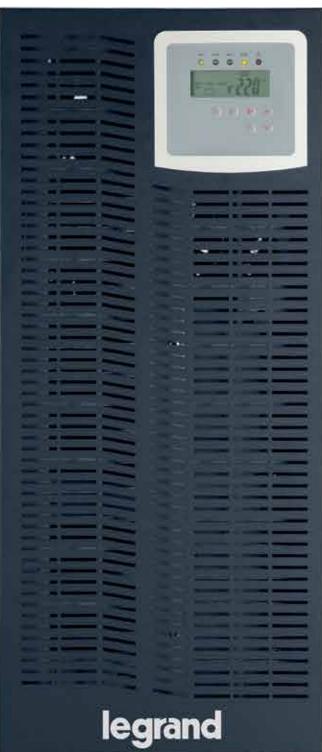
Keor S

ONLINE SINGLE PHASE

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

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





SINGLE PHASE UPS DESIGNED FOR

INDUSTRIAL APPLICATIONS

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

Power Range From 3 KVA up to 10KVA

Power factor 0,9 1

High Efficiency up to 94%

Built in paralleling feature up to 4 units ²

Built in Back Feed Protection

Protection Degree IP31

Long Backup time availability

Integrated maintenance bypass ²

Integrated internal isolation transformer option





User friendly Display



Remote control & Monitoring Supervision



Easy to move

¹0,8 for 3kVA

²Only available for 6 and 10kVA models

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.





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 Backup time.
- Standard internal backfeed protection which provides easy installation without additional cost in UPS supply switchboard.



0,21 m²



0,32 m² (30 kVA, 20')



0,54 m²

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)



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.

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.



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.



Keor T EVO

NEW COMPACT UPS UP TO 20 kVA

PF=1 -> VΔ=W

Keor T EVO is able to provide over 10% more active power than Keor T with same kVA Nominal power

Compact dimensions

Keor T EVO has foot print 35% smaller with the double of the power density compared the Keor T of same nominal power.

Embedded batteries for standard back up time

Keor T EVO can contain from 24 up to 36 batteries.



Complete Distribution Panel with Embedded Manual bypass



Wheels for easy installation and maintenance



Floor fixing kit for secure installations



Keor HPE



Keor HPE is designed to reduce TCO.

High efficiency double conversion and advanced energy saving modes ensure low operating costs.

Transformer-free architecture and internal battery layout cut commissioning costs and footprint.

The technology conversion control dramatically reduces maintenance costs, extending all critical components and battery's life.





Power factor 1

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

Internal battery

60 and 80 kW models can contain up to 180 batteries, allowing to obtain Backup time up to 12 minutes.

Backfeed detection

Plus series comes with backfeed energy detection circuit, for total upstream protection and operator safety.

COMPACT SIZE AND ONE CABINET FOR 60 TO 160 KW CONFIGURATIONS



Keor HPE

OPTIMIZED BATTERY MANAGEMENT

Protecting capital expenditure on batteries, whilst ensuring full availability of mission critical applications can only be achieved by keeping them in perfect condition. Keor HPE comes with advanced charging and battery managing features, providing best battery performance and extended lifetime.



Intermittent charging

with adjustable charging cycle (27-3 typical), to extend battery operating life and to achieve maximum energy savings.

Automatic setting of battery charging current

with feeding priority to output loads, ensuring low charging times for long Backup time applications.

Battery charging voltage temperature compensation

to prevent excess battery charging and overheating. Temperature sensor included in all units.

Easy access to the batteries

Access to the battery is on the side, the drawers can be extracted and inclined to facilitate the connection and substitution.

Automatic and manual battery test

to detect any battery performance deterioration.



FRONT-ACCES INSTALLATION AND MAINTENANCE

The UPS Keor HPE is designed to be installed and maintained completely from the front.

All circuit breakers and communications ports are on UPS front side.

A practical interior door allows you to reach even the parts installed on the bottom of the UPS, in order to have maximum access to all components.

Communications port

The communications ports are put in the internal door, and are available all the most common protocols: relay contact, ModBus-RTU by RS485, ModBus TCP/IP o SNMP by Ethernet.

Internal front acces

All parts are accessible from the front, to speed up installation and maintenance.

Cooling system

The optimised cooling system, placed in the upper part of the UPS, enables to position the UPS against the wall without affecting performance.



Keor HP

THE UPS WITH POWER UP TO

800kVA

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

Compact size with the best balance between footprint and power

EASY installation and maintenance

High efficiency up to 95%

Integrated transformer for the galvanic separation between AC/DC side

Output power factor 0,9



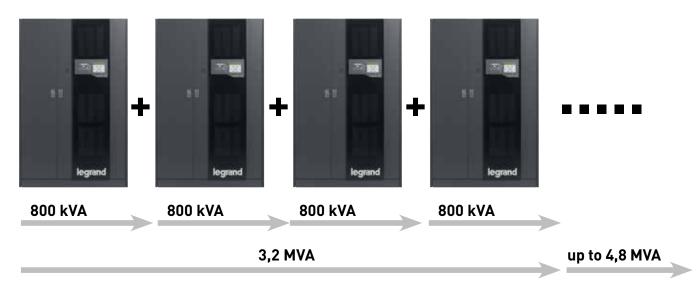


PARALLELABLE

UP 6 UNITS

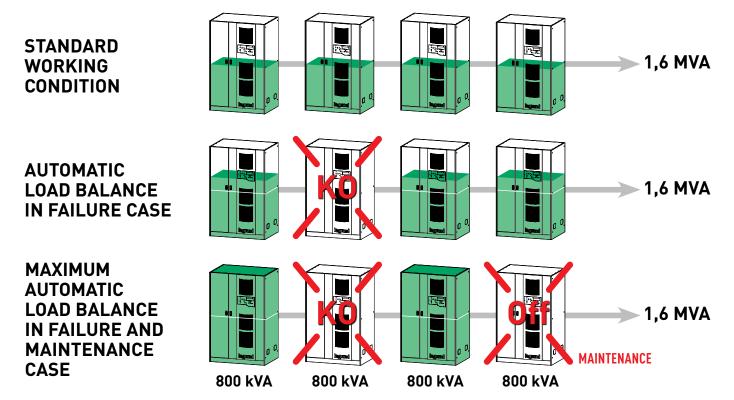
To increase the power

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 LP

Conventional UPS - Single phase On-line double conversion VFI

Keor LP 1000





3 101 56

3 101 58

Cat. Nos. UPS with IEC sockets

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

UPS with french standard sockets

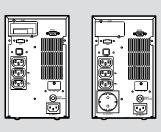
	Nominal power (VA)	Active power (W)	Backup time (min)	No. of sockets IEC 10A	No. of french socket	Weight (kg)
3 101 55	1000	900	5	3	1	10
3 101 57	2000	1800	5	6	2	17
3 101 59	3000	2700	5	6	2	23

Accessories

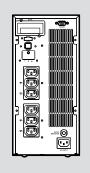
Description

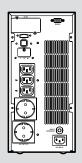
3 105 98*	Additional battery cabinet for 3 101 54 - 3 101 55
3 105 99*	Additional battery cabinet for 3 101 56 - 3 101 57
3 106 00*	Additional battery cabinet for 3 101 58 - 3 101 59
3 109 58	Additional battery charger for battery cabinet 3 105 98
3 109 60	Additional battery charger for battery cabinet 3 105 99
3 109 61	Additional battery charger for battery cabinet 3 106 00
3 109 53	Bypass

^{*}Battery included

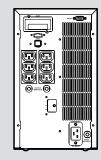


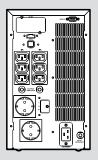
Keor LP 2000





Keor LP 3000





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



Keor LP

Conventional UPS - Single phase On-line double conversion VFI

Characteristics

General characteristics	3 101 54 3 101 55	3 101 56 3 101 57	3 101 58 3 101 59
Nominal power (VA)	1000	2000	3000
Active power (W)	900	1800	2700
Technology	0	n-line double conversion VFI-SS-11	11
Waveform		Sinusoidal	
Architecture		UPS with extendable Backup time	
Input characteristics			
Input voltage		230 V	
Input frequency		45-65 Hz ±2 % Autosensing	
Input voltage range		210 V÷240 Vac at 100% load	
Input power factor		> 0,99	
Output characteristics			
Output voltage		230 V ± 1 %	
Efficiency		Up to 90 %	
Output frequency (nominal)		50/60 Hz synchronised	
Peak factor		3:1	
THD of output voltage	< 3% with linear load		
Overload capacity:	<105% ONLINE mode, 121÷150% for 10 sec., 106÷120% for 30 sec., >151% instant transfer to bypass		-120% for 30 sec.,
Bypass	Automatic, internal, synchronised, electromechanical (for overloads and operating problems)		
Batteries			
Backup time extension		Sì	
Backup time (min)		5	
Communication and management			
Screen and signalling	Multi-coloured I	ED status indicator, alarms and au	ıdible signalling
Communication ports	1 RS232 serial por	t, 1 slot for network interface conne	ection (ex. CS141)
Emergency Power Off (EPO)		Yes	
Remote control	Softv	vare can be downloaded free of ch	arge
Mechanical characteristics			
Dimensions (H x W x D) (mm)	236 x 144 x 367	322 x 151 x 444	322 x 189 x 444
Dimensions of battery cabinet (H x W x D) (mm)	322 x 151 x 444	322 x 151 x 444	322 x 151 x 444
Battery cabinet Net weight (kg)	31	31	31
Ambient conditions			
Ambient operating temperature (°C)		0÷40	
Relative humidity (%)		20÷80 non condensing	
Noise at 1 m (dBA)		< 50	
Certifications			
Reference product standards	F	N 62040-1 EN 62040-2 EN 62040	-3

		-
D (ш
Reference product stance	larde	ш

EN 62040-1, EN 62040-2, EN 62040-3

UPS

DAKER DK PLUS

UPS - On-line double conversion VFI







3 101 77

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

The integrated communication software not only controls the UPS and its switch-off if there is a malfunction, and enables the user to test the main functions remotely, communicate via SNMP/Internet/network adaptor and access the functions of the UPS via the Internet, but can also send the user an SMS if specific events occur.

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

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

Cat. Nos. Convertible UPS with batteries

	Nominal power (VA)	Active power (W)	Backup time (min)	Weight (kg)
3 101 70	1000	900	10	16
3 101 71	2000	1800	10	29,5
3 101 72	3000	2700	8	30
3 101 73	5000	5000	5	60
3 101 74	6000	6000	4	60

Convertible UPS without batteries

	0011101111010		at battoriot	•
	Nominal power (VA)	Active power (W)	Phase configuration	Weight (kg)
3 101 75	5000	5000	-	25
3 101 76	6000	6000	-	25
3 101 77	10000	10000	-	26
3 101 78*	10000	9000	-	28

^{* 3-1} version

Battery cabinet (with batteries)

	Description
3 106 60	Battery cabinet for 3 101 70

3 106 61 Battery cabinet for 3 101 71

3 106 62 Battery cabinet for 3 101 72

3 106 63 Battery cabinet for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76

3 106 64 Battery cabinet for 3 101 77 - 3 101 78

Cat. Nos.	Battery	cabinet	(empty)
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	Description
3 106 65	Battery cabinet for 3 101 70
3 106 66	Battery cabinet for 3 101 71
3 106 67	Battery cabinet for 3 101 72
3 106 68	Battery cabinet for 3 101 73 - 3 101 74 - 3 101 75 - 3 101 76
3 106 69	Battery cabinet for 3 101 77 - 3 101 78

Accessories

3 109 52	Rack support bracket kit
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3 109 53 External manual Bypass for 3 101 70 -

3 101 71 - 3 101 72

3 109 63 External manual Bypass for 3 101 73 - 3 101 74 -

3 101 75 - 3 101 76 - 3 101 77

3 109 59 Additional charger for 3 101 70

3 109 61 Additional charger for 3 101 71 - 3 101 72

3 109 54 Additional charger for 3 101 73 - 3 101 74 -

3 101 75 - 3 101 76 - 3 101 77 - 3 101 78

3 109 69 Dry contact card



DAKER DK PLUS

UPS - On-line double conversion VFI

Characteristics

General characteristics	3 101 70	3 101 71	3 101 72	3 101 73	3 101 75	3 101 74	3 101 76	3 101 77	3 101 78
Nominal power (VA)	1000	2000	3000	50	00	60	000	10000	10000
Active power (W)	900	900 1800 2700 5000 6000 10000					10000	9000	
Technology	On-line double conversion VFI-SS-111			•					
Waveform	Sinusoidal								
Architecture		Convertible tower and 19" rack							
put characteristics									
Input voltage		230 V 380V 3			380V 3P+				
Input frequency		50-60 Hz ± 5% autosensing							
Input voltage range				176V - 280V	at full load				305V - 485
THD of input current					< 3%				•
Input power factor				> 0	,99				> 0,9
utput characteristics									
Output voltage					230 V ± 1%				
Output frequency (nominal)			50/60	Hz (configu	rable via LC	D panel) +/	/- 0.1%		
Efficiency	up to 90%	up to 91%	up to 92%			up to 94%			up to 90%
Peak factor					1:3				
THD of output voltage				< 3%	with linear	load			
Output voltage tolerance					± 1%				
Internal automatic bypass					included				
External maintenance bypass	optional	optional	optional	optional	optional	optional	optional	optional	-
atteries	1	'		'	'	'	<u>'</u>	'	
Backup time extension					Yes				
Backup time (min)	10	10	8	5	-	4	_	-	_
ommunication and management							l .	<u> </u>	
			Four b	outtons and	five LEDs fo	r real-time o	control		
Screen and signalling			of the s	status and th	ne main para	ameters of t	he UPS		
Communication ports			RS	S232 and US	SB serial po	rts			RS232 serial ports
Remote control				,	Available	,	,	,	
Connector for network interface					SNMP				
Back feed protection					yes				
Emergency power off (EPO)					yes				
echanical characteristics					, , , ,				
Dimensions (H x W x D) (mm)	440 x 88 (2U) x 405	440 x 88 ((2U) x 600	440x196 (4U)x680	440x88 (2U)x680	440x196 (4U)x680	440x88 (2U)x680	440x132	(3U) x680
Net weight (kg)	16	29,5	30	60	25*	60	25	26	28
Dimensions of battery cabinet H x W x D (mm)	440x196 (4U)x425	440 x 88 ((2U) x 600	-	440 x 88 (2U) x 680	-	440 x 88 (2U) x 680	440 x 132	(3U) x 680
mbient conditions									
Operating temperature (°C)					0 ÷ 40°C				
Protection index					IP 21				
Relative humidity (%)					20 to 80%				
Noise at 1 m (dBA)					< 50				
Heat dissipation (BTU/h)	490	654	818	89		13	00	16	636
ertifications									
Defenses and direct standards	EN 62040 1 EN 62040 2 EN 62040 2								

Reference product standards

EN 62040-1, EN 62040-2, EN 62040-3

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

Configurations





	1000 VA 2 cabinet	2000 VA 2 cabinet	3000 VA 3 cabinet	6000 VA 2 cabinet	10000 VA 2 cabinet
	L 2U + 4U	L 2U + 2U	L 2U +2U + 2U	L 2U + 2U	L 3U + 3U
TOWER version					



	1000 VA 2 cabinet	2000 VA 2 cabinet	3000 VA 3 cabinet	6000 VA 2 cabinet	10000 VA 2 cabinet
	H 2U + 4U (294mm)	H 2U + 2U (196mm)	H 2U + 2U + 2U (294mm)	H 2U + 2U (196 mm)	H 3U + 3U (294mm)
RACK version					



DAKER DK PLUS

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	3 101 70
	1000 VA	1h 22'	440 x 88 x 405 + 440 x 196 x 425	3 101 70 + 3 106 65
		2h 44'	440 x 88 x 405 + 440 x 196 x 425 (x2)	3 101 70 + 3 106 65 (x2)
		4h 22'	440 x 88 x 405 + 440 x 196 x 425 (x3)	3 101 70 + 3 106 65 (x3)
		5h 52'	440 x 88 x 405 + 440 x 196 x 425 (x4)	3 101 70 + 3 106 65 (x4)
		10'	440 x 88 x 600	3 101 71
		39'	440 x 88 x 600 (x2)	3 101 71 + 3 106 66
	2000 VA	1h 22'	440 x 88 x 600 (x3)	3 101 71 + 3 106 66 (x2)
		1h 57'	440 x 88 x 600 (x4)	3 101 71 + 3 106 66 (x3)
		2h 44'	440 x 88 x 600 (x5)	3 101 71 + 3 106 66 (x4)
		8'	440 x 88 x 600	3 101 72
		34'	440 x 88 x 600 (x2)	3 101 72 + 3 106 67
	3000 VA	1h 6'	440 x 88 x 600 (x3)	3 101 72 + 3 106 67 (x2)
Daker DK		1h 33'	440 x 88 x 600 (x4)	3 101 72 + 3 106 67 (x3)
Plus		2h 3'	440 x 88 x 600 (x5)	3 101 72 + 3 106 67 (x4)
	5000 VA	10'	440 x 88 x 680 + 440 x 88 x 680	3 101 75 + 3 106 68
		29'	440 x 88 x 680 + 440 x 88 x 680 (x2)	3 101 75 + 3 106 68 (x2)
		49'	440 x 88 x 680 + 440 x 88 x 680 (x3)	3 101 75 + 3 106 68 (x3)
		1h 11'	440 x 88 x 680 + 440 x 88 x 680 (x4)	3 101 75 + 3 106 68 (x4)
	6000 VA	10'	440 x 88 x 680 + 440 x 88 x 680	3 101 76 + 3 106 68
		29'	440 x 88 x 680 + 440 x 88 x 680 (x2)	3 101 76 + 3 106 68 (x2)
		49'	440 x 88 x 680 + 440 x 88 x 680 (x3)	3 101 76 + 3 106 68 (x3)
		1h 11'	440 x 88 x 680 + 440 x 88 x 680 (x4)	3 101 76 + 3 106 68 (x4)
		7'	440 x 132 x 680 + 440 x 132 x 680	3 101 77 + 3 106 69
		18'	440 x 132 x 680 + 440 x 132 x 680 (x2)	3 101 77 + 3 106 69 (x2)
	10000 VA	29'	440 x 132 x 680 + 440 x 132 x 680 (x3)	3 101 77 + 3 106 69 (x3)
		42'	440 x 132 x 680 + 440 x 132 x 680 (x4)	3 101 77 + 3 106 69 (x4)
		56'	440 x 132 x 680 + 440 x 132 x 680 (x5)	3 101 77 + 3 106 69 (x5)
		7'	440 x 132 x 680 + 440 x 132 x 680	3 101 78 + 3 106 69
Daker DK		18'	440 x 132 x 680 + 440 x 132 x 680 (x2)	3 101 78 + 3 106 69 (x2)
Plus	10000 VA	29'	440 x 132 x 680 + 440 x 132 x 680 (x3)	3 101 78 + 3 106 69 (x3)
3 - 1		42'	440 x 132 x 680 + 440 x 132 x 680 (x4)	3 101 78 + 3 106 69 (x4)
		56'	440 x 132 x 680 + 440 x 132 x 680 (x5)	3 101 78 + 3 106 69 (x5)

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

UPS

Keor S

Conventional UPS - Single-phase On-line double conversion





3 101 21

Cat. Nos.	Single-phase	UPS

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

Single-phase UPS with isolation transformer

	Nominal power (VA)	Active power (W)	Backup time (min)	Net weight (kg)
3 101 25	3000	2400	10	85
3 101 29	6000	5400	0	100
3 101 35	10000	9000	0	126

Battery cabinet

Description

3 107 40 Empty battery cabinet

3 107 41 Battery cabinet (for KEOR S 3000)

3 107 42 Battery cabinet (for KEOR S 3000)

3 107 43 Battery cabinet (for KEOR S 3000)

3 107 44 Battery cabinet (for KEOR S 6000-10000)

3 107 45 Battery cabinet (for KEOR S 6000-10000)

Accessories

Description

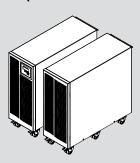
3 109 61 Battery charger for additional battery cabinet (for 3 107 41 - 3 107 42 - 3 107 43)

3 109 54 Battery charger for additional battery cabinet (for 3 107 44 - 3 107 45)

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



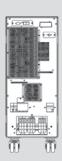
■ UPS for long Backup time with additional battery cabinet



UPS with isolation transformer built in



Rear pannel



Long Backup time table

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

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



Keor S

Conventional UPS - Single-phase On-line double conversion

Characteristics

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

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UPS

Keor T EVO

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

Keor T EVO

UPS - trifase on line doppia conversione VFI



KEOR T EVO 10-15-20

3 102 76

3 102 77

Cat. Nos.	UPS			
	Nominal power kVA	Backup time (min.)	Dimensions H x W x D (mm)	Net weight (kg)
3 102 70	10	-	1020 x 265 x 800	78
3 102 71	10	10	1020 x 265 x 800	145
3 102 72	10	15	1020 x 265 x 800	168
3 102 73	15	-	1020 x 265 x 800	79
3 102 74	15	7	1020 x 265 x 800	163
3 102 75	15	10	1020 x 265 x 800	180

1020 x 265 x 800

1020 x 265 x 800

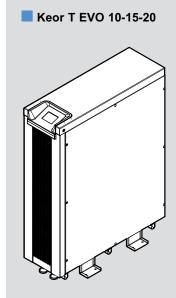
84

185

Accessories

Description

3 109 15 Parallel kit/UPS (PCB + 5 m cable)



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

Keor T EVO

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

Characteristics

General characteristics	KEOR T EVO 10	KEOR T EVO 15	KEOR T EVO 20
Nominal power (kVA)	10	15	20
Active power (kW)	10	15	20
Technology	nO	n-line double conversion VFI-SS-11	1
Waveform		Sinusoidal	
Architecture	Stand A	Alone or Distributed Parallel up to 4	units
nput characteristics			
Input voltage		380, 400, 415 V Ph+N+PE	
Input frequency		45-65 Hz	
Input voltage range (Ph-Ph)	ha	If load 208 -459 / full load 358-459	V
THD of input current		<5% at full load	
Compatibility with diesel generators		hronization between the input and even for high frequency variations	output frequencies,
Input power factor		> 0,99	
Output characteristics			
Output voltage	380, 400	415 V 3F+N (Adjustable from Fron	t Panel)
Efficiency		up to 95%	
Efficiency in Eco mode		up to 98,5%	
Output frequency (nominal)	50 /60	Hz ±0,01% (Adjustable from Front F	Panel)
Crest factor		up to 3:1	
THD of output voltage		<2% (at full linear load)	
Output power factor		1	
Output voltage tolerance		±1%	
Overload capability		10 min. 125%, 60 sec. 150%	
Bypass	Built-i	n Automatic and Maintenance By-p	oass
Batteries			
Battery type		VRLA - AGM Maintenance-free	
Internal Battery		Yes	
Battery Test	Automatic or manual		
Battery Recharge Profile		IU (DIN41773)	
Communication and management			
LCD Display	Touch screer	, led bar status, live synoptic view	for real time
Communication Ports	RS232, Gens	Set, Programmable 4 Relay Contact	ts, ModBus
Back Feed Protection		Embedded	
Audible Alarm		Acoustic alarms and warnings	
Net Interface Slot		yes for optional SNMP card	
Emergency Power Off (EPO)		Yes	
Remote Management		Available	
Physical characteristics			
Dimensions H x W x D (mm)		1020 x 265 x 800	
Net Weight (kg)	78	79	84
Ambient conditions			
Operating temperature (°C)		0÷40	
Relative humidity (%)		20÷95% not condensing	
Protection index		IP20	
Acoustic Noise at 1m; 50%load (dBA)		< 51	
Compliance			
Reference product standards	EN	I 62040-1, EN 62040-2, EN 62040-3	3

UPS









KEOR T120

Cat. Nos.	UPS			
	Nominal power kVA	Backup time (min.)	Dimensions H x W x D (mm)	Net weight (kg)
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 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 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 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 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 21	60	8	1650 x 600 x 900	620
3 102 22	60	14	1650 x 600 x 900	770

UPS empty for internal battery drawers

			•	
	Nominal power kVA	Backup time (min.)	Dimensions H x W x D (mm)	Net weight (kg)
3 102 23	10	0	1650 x 400 x 800	140
3 102 24	15	0	1650 x 400 x 800	151
3 102 25	20	0	1650 x 400 x 800	162
3 102 26	30	0	1650 x 400 x 800	169
3 109 27	40	0	1650 x 600 x 900	241
3 109 28	60	0	1650 x 600 x 900	276

UPS empty for external battery cabinet

	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 04	15	0	1345 x 400 x 800	132
3 102 08	20	0	1345 x 400 x 800	134
3 102 12	30	0	1345 x 400 x 800	140
3 102 16	40	0	1650 x 600 x 900	255
3 102 20	60	0	1650 x 600 x 900	277
3 102 27	80	-	1650 x 600 x 980	315
3 102 28	100	-	1650 x 600 x 980	350
3 102 29	120	-	1650 x 793 x 800	430

Cat. Nos. UPS with insulation transformer

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

UPS 208V

		Nominal power kVA	Backup time (min.)	Dimensions H x W x D (mm)	Net weight (kg)
3	101 32	5	0	1345 x 400 x 800	118
3	101 33	7,5	0	1345 x 400 x 800	132
3	101 34	10	0	1345 x 400 x 800	134
3	102 78	15	0	1345 x 400 x 800	140
3	102 79	20	0	1650 x 600 x 900	255
3	102 96	30	0	1650 x 600 x 900	277
3	102 97	40	0	1650 x 600 x 800	315
3	102 98	50	0	1650 x 600 x 800	350
3	102 99	60	0	1650 x 793 x 800	430

Accessories

Desc	ription

3 109 18	Battery cabinet empty (for 60 blocks 55 Ah)
3 109 21	Internal cables kit for battery cabinet empty (for 60 blocks 55 Ah)
3 109 11	Battery drawers kit for Keor T 10-30 kVA (60 blocks 7-9 Ah)
3 109 12	Battery drawers kit for Keor T 40-60 kVA (60 blocks 7-9 Ah)
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

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

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

Characteristics

3Ph version 400V (380-400-415V)	KEOR T10	KEOR T15	KEOR T20	KEOR T30	KEOR T40	KEOR T60	KEOR T80	KEOR T100	KEOR T120
Nominal power (kVA)	10	15	20	30	40	60	80	100	120
Active power (kW)	9	13,5	18	27	36	54	72	90	108
3Ph version 208V (200-208-220V)	KEORT 5	KEOR T 7,5	KEOR T 10	KEOR T 15	KEOR T 20	KEORT30	KEORT 40	KEOR T 50	KEOR T 60
Nominal power (kVA)	5	7,5	10	15	20	30	40	50	60
Active power (kW)	4,5	6,75	9	13,5	18	27	36	45	54
General characteristics									
Technology			(On-line doub	le conversio	n VFI-SS-11	1		
Waveform					Sinusoidal				
Architecture			Stand	d Alone or Di	stributed Pa	rallel up to 6	units		
Input characteristics									
Input voltage			380, 400, 4	115 V 3Ph+N	N+PE*. 200-	208-220V 3F	Ph+N+PE**		
Input frequency					45-65 Hz				
Input voltage range (Ph-Ph)		± 15%							
THD of input current				<	5% at full loa	ad			
Compatibility with diesel generators					yes				
Input power factor					> 0,99				
Output characteristics					, 0,00				
Output voltage	3:	20 400 415	V 3Db+N+	DE* 200 209	2 220V/ 3Db4	-N+DE** (Λα	diuetable fro	m Front Dan	ol)
Efficiency		380, 400, 415 V 3Ph+N+PE*, 200-208-220V 3Ph+N+PE** (Adjustable from Front Panel)						GI)	
Efficiency in Eco mode		up to 96%*							
•		up to 98,5%						,	
Output frequency (nominal)		50 /60 Hz ±0,01% free run (Adjustable from Front Panel)							
Crest factor		2,5:1							
THD of output voltage		< 2% (at full linear load)							
Output power factor					0,9				
Output voltage tolerance	±1%								
Overload capability	10min. at 125%, 60sec. at 150%								
Bypass				t-in Automat					
Isolation Transformer		Transfo	rmerless De	sign. Option	al Internal Is	solation Tran	sformer on r	request*	
Batteries									
Backup time extension			Sc	calable with	additional ba	attery cabin	ets		
Battery type				VRLA - A	GM Mainten	ance-free			
Internal Battery					Yes				
Battery Test				Auto	matic or ma	inual			
Battery Recharge Profile				II	J (DIN41773	3)			
Communication and management									
LCD Display			Touch scree	en, led bar s	tatus, live sy	noptic view	for real time		
Communication Ports			RS232, Ge	nSet, Progra	mmable 4 R	lelay Contac	ts, ModBus		
Back Feed Protection			Interna	al Back Feed	Protection	Device is St	andard		
Audible Alarm				Acoustic	alarms and	warnings			
Net Interface Slot				opti	onal SNMP	card			
Emergency Power Off (EPO)					Yes				
Remote Management					Available				
Physical characteristics									
Dimensions H x W x D (mm)			x 400 x 800* 00 x 800**		1650 x 6	00 x 900	1650 x 6	600 x 980	1650 x 793 x 800
Dimensions battery cabinet H x W x D (mm)	1650 × 800 × 900								
Ambient conditions									
Operating temperature (°C)	0÷40								
Relative humidity (%)									
Protection index									
Noise at 1 m (dBA)									
Compliance								(00	
Reference product standards			E	EN 62040-1,	EN 62040-2	, EN 62040-	3		

^{*} for 3F 400V model ** for 3F 208V model





KEOR HPE 100

KEOR HPE 200

Model	UPS (v	UPS (with internal installable batteries)							
	Nominal power kVA	Active power kW	Backup time mins	Dimensions H x W x D (mm)	Net weight (kg)				
Keor HPE 60	60	60	12	1800×560×940	250				
Keor HPE 80	80	80	11	1800×560×940	300				

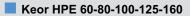
UPS (without batteries)

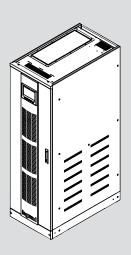
	or o (miniour pattorios)					
	Nominal power kVA	Active power kW	Backup time mins	Dimensions H x W x D (mm)	Net weight (kg)	
Keor HPE 60	60	60	-	1800×560×940	250	
Keor HPE 80	80	80	-	1800×560×940	300	
Keor HPE 100	100	100	-	1800×560×940	320	
Keor HPE 125	125	125	-	1800×560×940	360	
Keor HPE 160	160	160	-	1800×560×940	380	
Keor HPE 200	200	200	-	1975 x850 x953	720	

Options

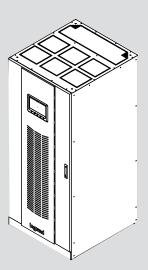
Description
Serial interface RS-485 ModBus
SNMP card
Parallel card interface KIT
Load-sync card interface kit
Isolation transformer

(1)

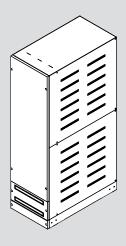




Keor HPE 200



■ Keor HPE battery cabinet



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

¹ accessories to be defined at order time



Keor HPE 60-80-100-125-160-200

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

eneral characteristics	60	80	100	125	160	200	
Nominal power (kVA)	60	80	100	125	160	200	
Active power (kW)	60	80	100	125	160	200	
Technology		0	n-line double con	version VFI-SS-	111	_	
Waveform			Sinus	oidal			
Architecture		Con	ventional UPS, pa	rallelable up to	6 unit		
put characteristics							
Input voltage			380-400-41	5 V 3Ph+N			
Input frequency			50-60 Hz (4	45÷65Hz)			
Input voltage range			400 V -20°	% / + 15%			
THD of input current			< 3	%			
Compatibility with diesel generators	C	Configurable for synchronism between the input and output frequencies, even for the highest frequency variations					
Input power factor			> 0,	99			
utput characteristics							
Output voltage			380, 400, 415 V	3Ph+N selected	<u></u>		
Efficiency	up to 96%						
Output frequency (nominal)	50 /60 Hz						
Crest factor	3:1						
THD of output voltage	<1% (with linear load), <5% (with non-linear load)						
Output voltage tolerance	± 1% (with balance load)						
Overload capacity	10 minutes at 125%, 30 seconds at 150%, 0,1 seconds >150%						
Efficiency in Eco mode			99	%		<u> </u>	
Bypass		Built-	in Automatic and	Maintenance B	ypass		
atteries							
Backup time with internal battery (mins)	12	11	-	-	-	-	
Backup time extension			alable with additio				
Battery type		VRLA - A	GM Maintenance		Batteries		
Battery test			Automatic				
Battery Recharge Profile			IU (DIN	41773)			
ommunication and management			LEDI		<u> </u>	<u> </u>	
LCD Display		F	our LED's to show four menu-driven	interface button	IS.		
Communication Ports	voltage free	e relay contacts, R	(slot SNMP	optional)		SNMP protocol	
Audible Alarm		Acoustic	alarms and warn		ble delays		
Emergency Power Off (EPO)			Ye				
Remote Management			Availa	able			
Battery temperature probe			ye	S			
echanical characteristics			1000 500 040			1075 050 0	
Dimensions H x W x D (mm)	250	300	1800 x 560 x 940	200	380	1975 x 850 x 9	
Net Weight (kg) Dimensions battery cabinet H x W x D (mm)	250	300	320 1800 x 503 x 94	360 5 (60 batteries)	300	720	
mbient conditions							
Operating temperature (°C)				10			
Relative humidity (%)	0÷40 < 95% not condensing						
Protection index	IP20						
Noise at 1 m (dBA)			< 6				
ertifications				, o			
		E1	J 62040 1 EN 620	140 2 EN 62041	n 3		
Reference product standards		Έſ	N 62040-1, EN 620	140-2, EN 62041	0-3		

Keor HP 100-125-160-200-250-300 400-500-600-800

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





KEOR HP 100

KEOR HP 400

Model UPS (without batteries)

	Nominal power kVA	Active power kW	Dimensions A X L X P (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
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
KEOR HP 400	400	360	1920 x 1990 x 965	1820
KEOR HP 500	500	450	2020 x 2440 x 950	2220
KEOR HP 600	600	540	2020 x 2440 x 950	2400
KEOR HP 800	800	720	1920 x 3640 x 950	3600

Options

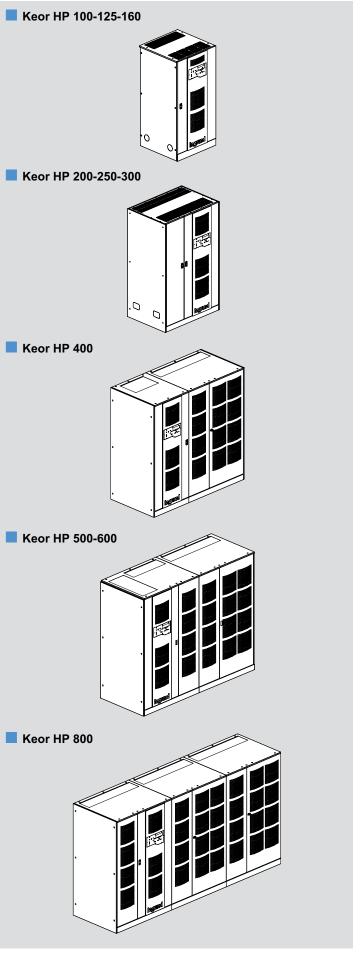
Description

Empty battery cabinet with cables and protection
Batteries 5 years / 10 years life time in cabinets or racks
Battery switch box with protection: fuses
Battery monitoring system
BY PASS insulation transformer

External maintenance bypass
Top entry cable cabinet

Remote control panel

(1)



¹ accessories to be defined at order time



Keor HP 100-125-160-200-250-300 400-500-600-800

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

Active power (kW) 90 112,5 144 180 225 270 360 450 540 77	eneral characteristics	100	125	160	200	250	300	400	500	600	800
Technology	Nominal power (kVA)	100	125	160	200	250	300	400	500	600	800
Maveform Sinuscidal Archecture Conventional UPS, parallelable up to 6 unit	Active power (kW)	90	112,5	144	180	225	270	360	450	540	720
Architecture	Technology				On-line	double co	nversion VI	FI-SS-111			
Input voltage	Waveform					Sinu	soidal				
Input voltage 380.415 \ 3 \ 9 h h N	Architecture			C	Conventio	nal UPS, p	arallelable	up to 6 ur	nit		
Input fraquency 50-60 Hz ± 10% autosensing 400 V - 20% / ± 15% The of input current	put characteristics						<u>.</u>				
Input voltage range	Input voltage										
THD of input current Compatibility with diesel generators Configurable for synchronism between the input and output frequencies, even for the highest frequency variations Input power factor Jongs Warner School (1998) Output voltage 380, 400, 415 V 3Ph+N selected Efficiency up to 95% Output frequency (nominal) Crest factor THD of output voltage 50% (with non-linear load) Output voltage 11 % (with balance load) Output voltage 12 % (with balance load) Output voltage 13 % (with balance load) Output voltage 14 % (with balance load) Output voltage 15 % (with non-linear load) Output voltage 15 % (with balance load) Output voltage 16 % (with balance load) Output voltage 17 % (with balance load) Output voltage 18 % (with balance load) Output voltage 198% 98% Output voltage 2 % (with balance load) Output voltage 2 % (with bal					50-6						
Compatibility with diesel generators Input power factor	Input voltage range										
Input power factor Solution	THD of input current										
Dutput voltage S80, 400, 415 V 3Ph+N selected	Compatibility with diesel generators		even for the highest frequency variations								
Output voltage	, ,					>(),99				
Efficiency	utput characteristics										
Output frequency (nominal)					380,			lected			
Crest factor 3:1	-										
THD of output voltage tolerance	1 1 3 (/										
Output voltage tolerance	0.001.0010										
Overload capacity											
Bypass Built-in Automatic and Maintenance Bypass Built-in Automatic (optional Maintenance Bypass) Bypass Built-in Automatic and Maintenance Bypass Built-in Automatic (optional Maintenance Bypass) Backup time extension Scalable with additional battery cabinets Battery type VRLA - AGM Maintenance-free Lead Acid Batteries Battery test Automatic or manual Battery Recharge Profile IU (DIN41773) Communication and management LCD Display Four LED's to show status at a glance. Four menu-driven interface buttons. Four status at a glance LEDs Communication Ports RS232 and USB serial ports (Optional RS485) Audible Alarm Acoustic alarms and warnings, configurable delays Configuration Setting Auto configuration by firmware, or manual by service engineer Net Interface Slot Built-in dry contact PCB, optional SNMP card Emergency Power Off (EPO) Yes Remote Management Available Battery temperature probe Yes echanical characteristics Dimensions H x W x D (mm) 1670 x 815 x 825 1905 x 1220 x 855 1990 x 2440 x 364 955 950 950 950 950 950 950 950 950 950	1 0										
Bypass Built-in Automatic and Maintenance Bypass Built-in Automatic (optional Main nance Bypass) Batteries Backup time extension Scalable with additional battery cabinets Battery type VRLA - AGM Maintenance-free Lead Acid Batteries Battery Recharge Profile IU (DIN41773) Communication and management LCD Display Four menu-driven interface buttons. Four status at a glance. Four menu-driven interface buttons. Four status at a glance. Communication Ports RS232 and USB serial ports (Optional RS485) Audible Alarm Acoustic alarms and warnings, configurable delays Configuration Setting Auto configuration by firmware, or manual by service engineer Net Interface Slot Built-in dry contact PCB, optional SNMP card Emergency Power Off (EPO) Yes Remote Management Available Battery temperature probe Yes echanical characteristics Net Weight (kg) 625 660 715 970 1090 1170 1820 2220 2400 36 Dimensions battery cabinet H x W x D (mm) 1900x1400x830 (50 batteries) 1900x1400x860 (50 batteries) 1900 x 2800 x 860 100 batteries) 1900x2800x860 (100 batteries) 1900x2800x860 (100 batteries) 1900x2800x860 (100 batteries) 1900x2800x860 (100 batteries) 1900 x 2800 x 860 100 batteries) 1900x1400x860 (50 batteries) 1900 x 2800 x 860 100 batteries) 1900x2800x860 (100 batteries) 1900x2800x860 (100 batteries) 1900 x 2800 x 860 100 batteries) 1900x2800x860 (100 b	, ,										
Backup time extension Battery type Battery test Battery test Battery Recharge Profile Communication and management LCD Display LCD Display Communication Ports Communication Setting Audible Alarm Acoustic alarms and warnings, configurable delays Configuration Setting Net Interface Slot Bettery temperature probe Emergency Power Off (EPO) Remander Available Battery temperature probe Bechanical characteristics Dimensions Battery (kg) Dimensions battery cabinet H x W x D (mm) Dimensions Battery cabinet H x W x D (mm) Downwork at 1 m (dBA) Operating temperature (°C) Relative humidity (%) Noise at 1 m (dBA) Scalable with additional battery cabinets Audiotional battery cabinets Automatic or manual IU (DIN41773) DIMA1773) DIMA1773 Automatic or manual IU (DIN41773) DIVIDIA (Four LED's to show status at a glance. Four menu-driven interface buttons. Four status at a glance LEDs Resource Automatic or manual IU (DIN41773) Automatic or manual IU (DIN41773) Butteria Automatic or manual IU (DIN41773) Automatic or manual IU (DIN41773) Butteria Automatic or manual IU (DIN41773) Four LED's to show status at a glance. Four menu-driven interface buttons. Four status at a glance LEDs Resour Serial Profile (LED) Four menu-driven interface buttons. Four status at a glance LEDs Resource LEDs Automatic or manual IU (DIN41773) Butteria Automatic or manual IU (DIN41773) Four LED's to show status at a glance. Four menu-driven interface buttons. Four status at a glance LEDs Resource Automatic or manual IU (DIN41773) Four menu-driven interface buttons. Four status at a glance. Four menu-driven interface buttons. Four status at a glance LEDs Relative humidity (%) Septim Automatic or manual IU (DIN41773) Four menu-driven interface buttons. Four status at a glance LEDs Relative humidity (%) Septim Automatic or manual IU (DIN41773) Four LED's to show status at a glance LEDs Relative humidity (%) Septim Automatic or manual IU (DIN41773) Four LED's to show status at a glance LEDs Relative humidity of (%) Sept	Efficiency in Eco mode										
Backup time extension Battery type VRLA - AGM Maintenance-free Lead Acid Batteries Battery test Battery Recharge Profile Battery Recharge Profile CLCD Display Communication Ports Audible Alarm Acoustic alarms and warnings, configurable delays Configuration Setting Net Interface Slot Battery Remote Management Battery type Cechanical Characteristics Dimensions H x W x D (mm) Dimensions battery cabinet H x W x D (mm) Prour LED's to show status at a glance Four menu-driven interface buttons. Four status at a glance LEDs Four menu-driven interface buttons. Four status at a glance LEDs RS232 and USB serial ports (Optional RS485) Audible Alarm Acoustic alarms and warnings, configurable delays Configuration Setting Auto configuration by firmware, or manual by service engineer Net Interface Slot Built-in dry contact PCB, optional SNMP card Yes Remote Management Available Battery temperature probe Yes Characteristics Dimensions H x W x D (mm) 1670 x 815 x 825 1905 x 1220 x 855 1990 x 2020 x 2020 x 2440 x 2440 x 364 965 965 960 965 960 960 960 960 960 960 960 960 960 960	Bypass							Mainte			
Battery type Battery test Battery Recharge Profile LCD Display Communication and management LCD Display Communication Ports Audible Alarm Acoustic alarms and warnings, configurable delays Configuration Setting Net Interface Slot Emergency Power Off (EPO) Remote Management Battery temperature probe Battery temperature probe Battery temperature probe Communication Bult-in dry contact PCB, optional SNMP card Yes Botton H x W x D (mm) Net Weight (kg) Dimensions battery cabinet H x W x D (mm) Dimensions battery cabinet H x W x D (mm) Powox4800x830 (50 batteries) 1900x1400x830 (50 batteries) 1900x2800x830 (100 batteries) 1900x2800x830 (100 batteries) Protection index Noise at 1 m (dBA) Noise at 1 m (dBA) Audibate Four LED's to show status at a glance. Four recheby to show status at a glance. Four retail port status at a glance. Four retail port status at a glance. Four status at a glance. Four retail port status at a glance. Four status at a glance. Four retail port status at a glance. Four status at a glance. Fou											
Battery test Battery test Battery Recharge Profile IU (DIN41773)	·										
Battery Recharge Profile CDD Display LCD Display Four LED's to show status at a glance. Four menu-driven interface buttons. Four status at a glance LEDs Communication Ports RS232 and USB serial ports (Optional RS485) Audible Alarm Acoustic alarms and warnings, configurable delays Configuration Setting Auto configuration by firmware, or manual by service engineer Net Interface Slot Built-in dry contact PCB, optional SNMP card Four Menure Profile Available Battery temperature probe Emergency Power Off (EPO) Remote Management Battery temperature probe Communication Ports Remote Management Available Battery temperature probe Communication Profit Relative humidity (%) Relative humidity (%) Protection index Noise at 1 m (dBA) Acoustic alarms and warnings, configuration by firmware, or manual by service engineer Result LEDs Four LED's to show status at a glance. Four LED's to show status at a glance. Four LED's RS232 and USB serial ports (Optional RS485) Acoustic alarms and warnings, configuration by firmware, or manual by service engineer Autoconfiguration by firmware, or manual by service engineer Built-in dry contact PCB, optional ports of manual by service engineer Autoconfiguration by firmware, or manual by service engineer Ava	3 31			VRLA	- AGM N				tteries		
CDD pisplay Four menu-driven interface buttons. Four status at a glance. Four menu-driven interface buttons. Four status at a glance LEDs	,										
CDD Display Four menu-driven interface buttons. Four status at a glance. Four menu-driven interface buttons. Four status at a glance LEDs	j					IU (DII	N41773)				
Four menu-driven interface buttons. Four status at a glance LEDs	ommunication and management										
Acoustic alarms and warnings, configurable delays			Fc		driven inte	rface butt	ons. Four s	tatus at a		Ds	
Auto configuration by firmware, or manual by service engineer							· · · ·				
Net Interface Slot Built-in dry contact PCB, optional SNMP card											
Emergency Power Off (EPO)	9		/							er	
Remote Management Available				Ві	ıilt-in dry	-		I SNMP ca	ard		
Battery temperature probe Yes											
Dimensions H x W x D (mm)											
Dimensions H x W x D (mm)	, , ,					Y	es				
Dimensions H x W x D (mm)	lechanical characteristics							4000	0000	0000	1000
Net Weight (kg) 625 660 715 970 1090 1170 1820 2220 2400 360	Dimensions H x W x D (mm)	167	'0 x 815 x	825	190	15 x 1220 x	× 855	1990 x	2440 x	2440 x	1920 3640 950
H x W x D (mm) 1900x2800x830 (100 batteries) 1900x2800x860 (100 batteries) (100 batteries) (100 batteries)	Net Weight (kg)	625	660	715	970	1090	1170	1820	2220	2400	3600
Mbient conditions Operating temperature (°C) 0÷40 Relative humidity (%) <95% not condensing Protection index Noise at 1 m (dBA) < 60											-
Operating temperature (°C) 0÷40 Relative humidity (%) <95% not condensing Protection index IP20 Noise at 1 m (dBA) < 60 <62 ertifications	mbient conditions		(
Relative humidity (%) Protection index Noise at 1 m (dBA) Protections <pre></pre>						0-	÷40				
Protection index IP20 Noise at 1 m (dBA) < 60						<95% not	condensin	a			
Noise at 1 m (dBA) < 60 <62 ertifications	, , , , , , , , , , , , , , , , , , ,										
ertifications			< 60			"		<62			
	, ,										
					EN 6204	0-1, EN 62	2040-2, EN	62040-3			



APPLICATION FIELDS







Data center Tertiary Industry

MODULAR UPS

from 1.25 up to 480 kW



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



TRIMOD HE Three-phase modular UPS VFI, from 10 up to 80kW



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



Keor MOD Three-phase modular UPS VFI, from 25 up to 250kW



ARCHIMOD HE240/480 Three-phase modular UPS VFI, from 240 up to 480kW

CHARACTERISTICS OF THE RANGE

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

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

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

MEGALINE

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

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

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

SINGLE PHASE MODULAR UPS

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

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







CLASS A/B (immunity emission)

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

ALARMS AND SIGNALS

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







GREEN & NOT FLASHING -Normal Operation

Normal operation, no anomaly

YELLOW & FLASHING -Battery Mode

Battery operation, accompanied by a slow, intermittent alarm signal, which can be silenced

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

- Operation blocked
- Output voltage anomaly

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

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

TRIMOD HE & ARCHIMOD HE

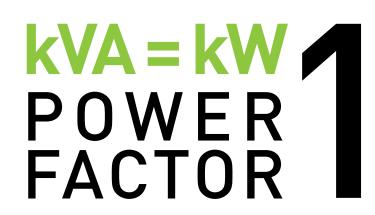
HIGH efficiency
HIGH performance
LOW environmental impact

THE TECHNOLOGY EVOLUTION

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

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

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





INCREASED POWER

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



GREATER 96%

The European Code of Conduct requires a minimum value of 92%. TRIMOD HE and ARCHIMOD HE are up to 4% more efficient, thus effectively dividing by 2 all UPS energy losses.





TRIMOD HE & ARCHIMOD HE

FLEXIBILITY MODULARITY EXPANSION

Gradual power adaptation

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

Optimisation of work

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



Ex The add by a on the time cab Back

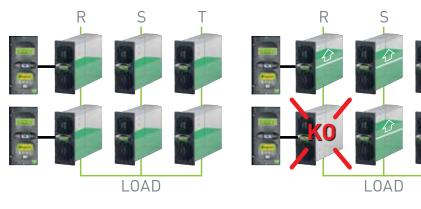
Extending the Backup time

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



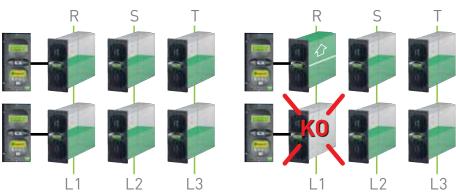
Redundancy on the single phase load

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



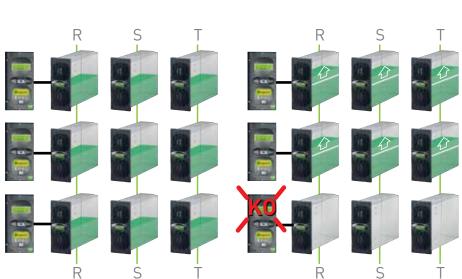
Redundancy on the phases

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



Redundancy on the control

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



HIGH LEVELS OF REDUNDANCY

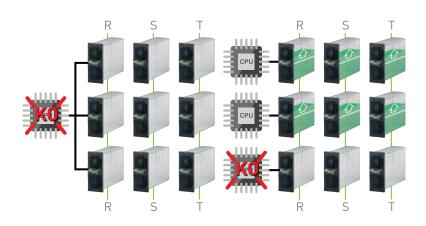
Thanks to the construction technology of the TRIMOD HE and ARCHIMOD HE UPS systems, you can set various redundancy levels so that maximum service continuity is always guaranteed.

UPS

TRIMOD HE

POWER CABINET WITH MULTI CONTROL BOARD

In order to increase service continuity and consequently decrease failures (limit the single point of failure) the new cabinet are provided with more control modules, from 1 to a maximum of 4, so as to ensure redundancy also on control.



Redundancy on the control

In UPS systems incorporating several control modules, failure of one of the control boards results in the modules it controls being switched off. However, continuity of service is assured by automatic distribution of the lost power over the other modules.

HOT-SWAP

Thanks to the multi control board system you can replace the power modules without having to turn off the UPS.

Separate batteries

The new multi control board cabinet, also allows you to associate each control a separate battery pack.





POWER CABINET WITH DUAL INPUT FUNCTION

TRIMOD HE, in addition to the standard cabinet, it offers cabinet with power up to 80 kW and DUAL INPUT function. The new cabinet can be fed two AC sources is source separated: the configuration can be selected at installation time and easily obtained by removing a bridge from the input terminals.

POSSIBLE CONFIGURATIONS

SCALABLE SOLUTION FROM 40 kW UP TO 80 kW SCALABLE SOLUTION FROM 60 kW UP TO 80 kW

REDUNDANCY SOLUTION 60 kW N+1



ARCHIMOD HE



MODULAR ARCHITECTURE UPS

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

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

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

1 Control module

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

2 Power modules

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

3 Power expansion module

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

4 Battery modules

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

5 Distribution module

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

6 Cable entry

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



ARCHIMOD HE 240/480





FULLY INTEGRATED HIGH POWER SOLUTIONS



Advanced technology

The connections between the UPS and the distribution enclosure can be integrated in the same solution, making installation easier and tidy.

Visual & technical coordination

The new ARCHIMOD HE 240/480 is available in 2 colours (RAL7016-RAL7035), with the same aesthetics as the front panel of LEGRAND distribution enclosures.

Turnkey solutions

Legrand offers a fully coordinated UPS and power distribution switchboard range; one single supplier for any secure power need.

ARCHIMOD HE 240/480



AS A LEADING MANUFACTURER OF POWER DISTRIBUTION ENCLOSURES, LEGRAND IS FULLY AWARE OF THE INSTALLATION REQUIREMENTS OF THESE SYSTEMS. THE ARCHIMOD HE240/480 RANGE HAS BEEN DEVELOPED TO SIMPLIFY ALL PHASES OF INSTALLATION, POSITIONING AND CONNECTION. THE UPS IS DESIGNED WITH A LARGE AMOUNT OF AVAILABLE SPACE FOR CABLE ENTRY AND BENDING.





Dedicated connection solutions

The connection cabinet has been designed to fit several cables with a large cross-section. The switches are fitted with special terminals to simplify connection of the cables.

User-friendly interface

The display position makes it easy to read and navigate the menu. All communication ports are fitted on the front panel below the display, allowing faster control and testing. A cable management system is available for the communication cables. 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 according to their severity.



Designed to fit any location

Compact and lightweight components simplify and optimise the installation in any location.

The structure without the power modules weighs only 300 kg, making it easy to position the UPS in the equipment room or in its final destination.

Visual and mechanical safety

The status of the switches is always visible via the position of the handle. When the switches are closed the handle prevents the wiring cabinet from opening, ensuring complete safety of operation.







Keor Mod

TECHNOLOGY AND DESIGN

STYLISH

The elegance of the deshave joined forces to machine, a UPS with market-leading perform

REVOLUTIONARY

All the elements comprise

The elegance of the design and the skilful choice of materials have joined forces to create a modern and cutting-edge machine, a UPS with a highly emotional DNA boasting market-leading performance.

All the elements comprising the system have been designed to ensure maximum reliability and performance, without forsaking its ease of installation and maintenance. The use of light colours and highly reflective surfaces contribute to reducing environmental lighting in technical rooms (DATA CENTRES), and reduce consumptions in line with a GREEN approach.

POWERFUL

The **Keor MOD** power module is the smallest 25 kW three-phase module available on the market; its high power density (1136 W/dm³) makes it possible to achieve configurations of 125 kW with 5.2 minutes of autonomy (internal batteries) or 250 kW in less than 1m² of space on the ground with the door open.

PERFORMING

Double conversion efficiency up to 96.8%

(from 20% to 50% of the load)

Efficiency in ECO mode up to 99%.

Output power factor = 1

Hot-swappable modules.

Modular redundancy in N+1 configuration.

Intelligence distributed between modules.

UPS system capacity up to 600 kW.

Decentralised by-pass.

Reduced battery charging times.

UPS

Keor MOD

25 KW POWER MODULE IN JUST 2 RACK UNITS

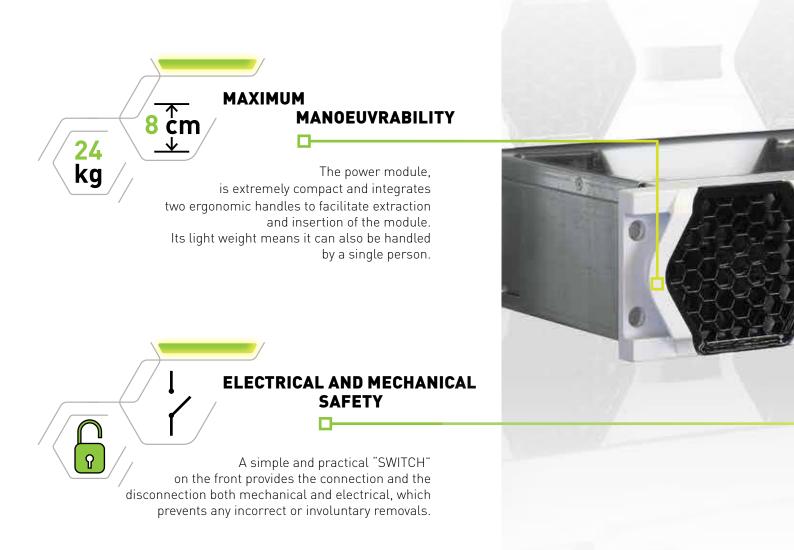
Unique in its kind, Keor MOD introduces the new Structured Energy Flow system, effectively eliminating all the connection cables inside the power module.

The connections between the various power sections are achieved by the structure that physically connects them. This results in an exceptionally high level of reliability.

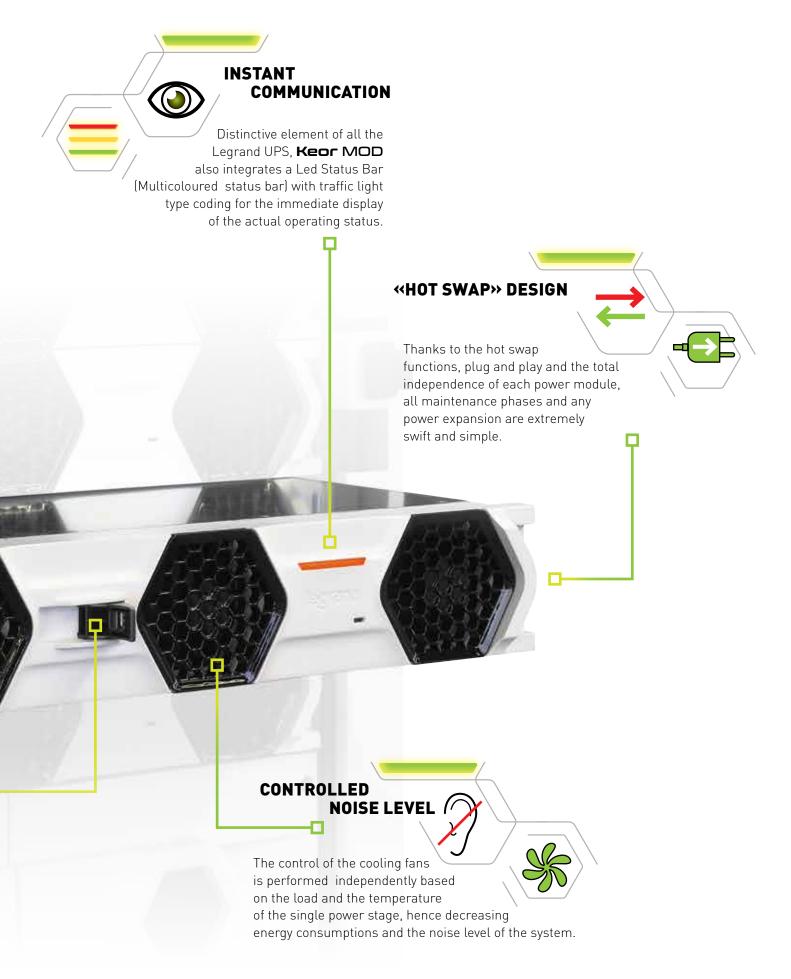
The power module houses the following components: input PFC, three-level inverter, integrated and independent control logic, battery charger, static and electromechanical by-pass.

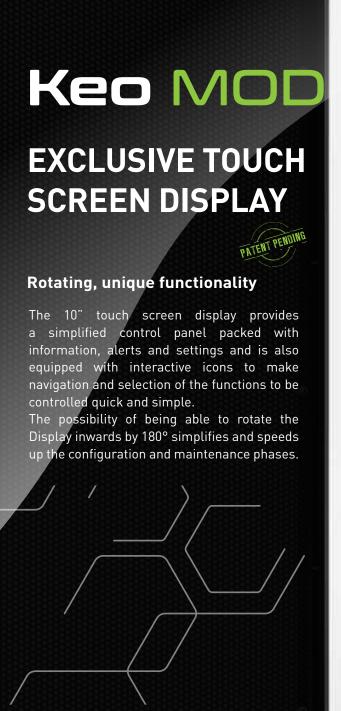
The Keor MOD power module is equipped with "System On Chip" type control technology which, unlike the conventional version (DSP based), contains a dual Core ARM A9 processor, a high performance FPGA and a set of advanced devices within one single component.

This technological choice provides an impressive range of advantages in terms of processing power, speed and versatility.











10 inches with innovative graphics

The display is positioned vertically so you have both the operating block diagram and the UPS layout with all the available information on the same screen.





Intuitive and user friendly

All the display icons, including the operating panel, are interactive so as to facilitate navigation and the setting of customisable functions.





INTERNAL BATTERIES UP TO 125 KW

Safe extraction

The battery drawers can be easily extracted using the handle on the front.

The mechanical anti-extraction stop prevents complete extraction of the drawer, preventing accidental falling and allowing operators to work in complete safety.



Light and dividable

The batteries inside the drawer are divided into 4 blocks, each with 6 batteries; this reduces weight (<16 kg each) and avoids direct contacts with dangerous voltages during maintenance phases.

Ease of handling

Each 6-battery block can easily be removed using the integrated handle.

The replacement of individual sections requires very little time and guarantees swift maintenance operations.





UPS









3 103 60 + 3 107 78

3 108 35

Cat. Nos.	Single cabinet (German stand							
	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				
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	Single cabinet (French standard)							
	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 power (VA)	Active power (W)	Backup time (min)	Number of cabinets	Weight (kg)			
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			

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 of	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	7000	-	2					

		Battery extension
	with charger	Description
3 107 75	3 107 86	Cabinet with 1 BK
3 107 76	3 107 87	Cabinet with 2 BK
3 107 77	3 107 88	Cabinet with 3 BK
3 107 78	3 107 89	Cabinet with 4 BK
3 107 79	3 107 90	Cabinet with 5 BK
3 107 80	3 107 91	Cabinet with 6 BK
3 107 81	3 107 92	Cabinet with 7 BK
3 107 82	3 107 93	Cabinet with 8 BK
3 107 83	3 107 94	Cabinet with 9 BK
3 107 84	3 107 95	Cabinet with 10 BK

	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 Backup times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

MEGALINE

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

eneral characteristics	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 Double cabinet								
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)			00				7000		
Technology				n-line doub	le conversio	n VFI-SS-11			
Architecture	Moc	lular, expand	dable, N+X r	edundant wi	th 1250 VA p	ower cards,	contained ir	n a single cal	oinet
put characteristics									
Nominal input voltage					230 V				
Input voltage range				184 V to	264 V at 10	0% load			
Minimum operating voltage				100	0 V at 50% lo	oad			
THD of input current					< 3%				
Input power factor				> 0	.99 at 20% I	oad			
Input frequency				50 Hz/60	Hz ± 2% au	tosensing			
output characteristics									
Output voltage					230 V ± 1%				
Output frequency				50 Hz/6	60 Hz synch	ronised			
THD of output voltage				< 1% v	vith non-line	ar load			
Waveform					Sinusoidal				
Peak factor					3:1				
Efficiency					up to 92%				
Overload capacity			300	% for 1 s – 2	200% for 5 s	- 150% for	30 s		
ackup time									
Backup time (min)	13								
Extension of Backup time									
quipment									
Bypass	Automatic, internally synchronised, static and electromechanical (for overloads and operating problems)								
Signalling and alarms	Wic	le screen wi	ith 4 alphani	umeric lines	s, multi-colo	ured status i	ndicator, au	ıdible signal	ling
Communication ports				1 RS 232 p	oort, 2 logic	level ports			
Communicator UPS software		Can be	e downloade	ed free of ch	narge (after	requesting a	ın activatior	n code)	
Protection	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	Germar	standard/t	erminal con	nector with	universal m	ulti-socket o	utlet (Italiar	/German sta	andard)
lechanical 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 2	70 x 570			2 x 4	475 x 270 x	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
mbient conditions									
Ambient operating temperature (°C)					0 to 40				
Protection index					IP 21				
Relative humidity (%)					20 to 80				
Noise at 1 m (dBA)									

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





3 107 96







3 108 62

- Load waiting mode operation (protection on request)

1250

2500

3750

5000

Nominal

power (VA)

1250

2500

3750

5000

Nominal

power (VA)

1250

2500

3750

5000

- Cat. Nos. RACKs (German standard) Nominal power (VA)
- 3 103 79
- 3 103 81 3 103 83
- 3 103 85
- 3 103 34 3 103 35
- 3 103 36 3 103 37

- 3 103 38 3 103 39 3 103 40
 - 3 103 41
- Nominal power (VA) 3 103 80 3 103 82 3 103 84

- 3 103 86

- 1250 2500 3750
 - 1750 2625 5000 3500

Active power (W)

- 875

Backup

(min)

Number of

cabinets

1

1

Number of

1

1

1

1

Number of cabinets

1

Weight (kg)

23.5

34

43

53

Weight (kg)

23.5

34

43

53

Weight (kg)

23.5

34

43

53

cabinets

1

1

1

1

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

Active power (W)

875

1750

2625

3500

RACKs (French standard) Active power (W)

875

1750

2625

3500

RACKS (British standard)

Active power

875

1750

2625

3500

RACKS - without batteries

Backup

time (min)

13

13

13

13

Backup

13

13

13

13

Backup

time (min)

13

13

13

13

- Output voltage can be adjusted in 1 volt steps from front panel

3 103 92

- Low noise - Internal and external temperature measurement
- Ventilation control according to temperature and load
- Designed for remote emergency stop
 - Cat. Nos. Backup time extensions Nominal power Additional

	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

Battery expansions for Rack UPS

18

- Description 3 107 96 Rack with 1 BK 3 107 97 Rack with 2 BK
- Rack with 3 BK 3 107 98 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

3750

Accessories

	Description
108 35	Power module
10001	Consiste de attaca de

3 108 04 Empty battery rack cabinet 3 108 62 Manual bypass for single rack (BP/1)

3 109 72

3

(PW 1250)

3 107 85 Additional charger (CB 36)

Relay interface kit 3 109 73 Telescopic runner kit for 6U rack

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

MEGALINE RACK

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

	3 103 34	3 103 35	3 103 36	3 103 37		
General characteristics	3 103 38 3 103 79	3 103 39 3 103 81	3 103 40 3 103 83	3 103 41 3 103 85		
Nominal power (VA)	1250	2500	3750	5000		
Active power (W)	875	1750	2625	3500		
Max. expansion (VA)		50	000			
Max. expansion (W)	3500					
Technology	On line doppia conversione (VFI-SS-111)					
Architecture	Modular, expandable, N+X redundant with 1250 VA power cards, contained in a single rack					
nput characteristics						
Nominal input voltage		23	0 V			
Input voltage range		184 V to 264 V	/ at 100% load			
Minimum operating voltage via mains			50% load			
THD of input current		<	3%			
Input power factor		> 0.99 at	20% load			
Input frequency		50 Hz/60 Hz ±	2% autosensing			
Output characteristics						
Output voltage			<u>/</u> ± 1%			
Output frequency			synchronised			
THD of output voltage			on-linear load			
Waveform			soidal			
Peak factor	3:1					
Efficiency	up to 92%					
Overload capacity		300% for 1 s – 200%	for 5 s – 150% for 30 s			
Backup time			10			
Backup time (min)						
Extension of Backup time	3 TeS					
Equipment	Automatic, internally synchronised, static and electromechanical					
Bypass	(for overloads and operating problems).					
Signalling and alarms	Large screen with 4 alphanumeric lines, multi-coloured status indicator, audible signalling					
Communication ports			logic level ports			
Communicator UPS software	Can be dowr	lloaded free of charge	(after requesting an act	ivation code)		
Protection	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	German sta		tor with universal multi-s	socket outlet		
Mechanical characteristics		·	· · · · · · · · · · · · · · · · · · ·			
Net weight (kg)	23,5	34	43	53		
Dimensions (H x W x D) (mm)		266 x 4	83 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 conditions						
Ambient operating temperature (°C)		0÷	-40			
Protection index		IP	21			
Relative humidity (%)		20 t	o 80			
Noise at 1 m (dBA)		<	40			

Model	Power	Backup time	Number of cabinets and dimensions W x H x D (mm)	Cat. Nos.
Single cabinet				
	1.250 VA	30'	1x (270 x 475 x 570)	3 103 73
	1.250 VA	52'	1x (270 x 475 x 570)	3 103 74
	1.250 VA	75'	1x (270 x 475 x 570)	3 103 75
	2.500 VA	22'	1x (270 x 475 x 570)	3 103 76
	2.500 VA	30'	2x (270 x 475 x 570)	3 103 77
	2.500 VA	52'	2x (270 x 475 x 570)	3 103 52 + 3 107 78
	2.500 VA	63'	2x (270 x 475 x 570)	3 103 52 + 3 107 79
	3.750 VA	18'	1x (270 x 475 x 570)	3 103 78
	3.750 VA	29'	2x (270 x 475 x 570)	3 103 54 + 3 107 77
	3.750 VA	44'	2x (270 x 475 x 570)	3 103 54 + 3 107 79
	3.750 VA	67'	2x (270 x 475 x 570)	3 103 54 + 3 107 82
	5.000 VA	22'	2x (270 x 475 x 570)	3 103 56 + 3 107 76
	5.000 VA	30'	2x (270 x 475 x 570)	3 103 56 + 3 107 78
	5.000 VA	46'	2x (270 x 475 x 570)	3 103 56 + 3 107 81
	5.000 VA	63'	2x (270 x 475 x 570)	3 103 56 + 3 107 84
Double cabinet				
	5.000 VA	22'	2x (270 x 475 x 570)	3 103 60 + 3 107 80
	5.000 VA	30'	2x (270 x 475 x 570)	3 103 60 + 3 107 82
	5.000 VA	46'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 75
	5.000 VA	63'	3x (270 x 475 x 570)*	3 103 60 + 3 107 84 + 3 107 78
	6.250 VA	20'	2x (270 x 475 x 570)	3 103 63 + 3 107 81
	6.250 VA	30'	2x (270 x 475 x 570)	3 103 63 + 3 107 84
	6.250 VA	47'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 78
	6.250 VA	60'	3x (270 x 475 x 570)*	3 103 63 + 3 107 84 + 3 107 81
	7.500 VA	18'	2x (270 x 475 x 570)	3 103 66 + 3 107 82
	7.500 VA	30'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 76
	7.500 VA	48'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 + 3 107 81
	7.500 VA	59'	3x (270 x 475 x 570)*	3 103 66 + 3 107 84 (x2)
	8.750 VA	20'	2x (270 x 475 x 570)	3 103 69 + 3 107 84
	8.750 VA	30'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 78
	8.750 VA	45'	3x (270 x 475 x 570)*	3 103 69 + 3 107 84 + 3 107 83
	8.750 VA	61'	4x (270 x 475 x 570)*	3 103 69 + 3 107 84 (x2) + 3 107 78
	10.000 VA	22'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 76
	10.000 VA	30'	3x (270 x 475 x 570)*	3 103 72 + 3 107 84 + 3 107 80
	10.000 VA	46'	4x (270 x 475 x 570)*	3 103 72 + 3 107 84 (x2) + 3 107 76
	10.000 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 stated Backup times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

1 cabinet	2 cabinets	3 cabinets	4 cabinets	5 cabinets	
L 270mm	L 540mm	L 810mm	L 1080mm	L 1350mm	
[22] 000 0 000 0	0000 0				



MEGALINE RACK

Long Backup time table rack version

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

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

1 cabinet	2 cabinets	3 cabinets	4 cabinets	5 cabinets
H 266mm (6U)	H 532mm (6U+3U)	H 798mm (6U+2x3U)	H 1064mm (6U+3x3U)	H 1330mm (6U+4x3U)

TRIMOD HE

Double conversion VFI three-phase modular UPS





3 108 45



3 104 42

Cot Noo

Cat. Nos.	UPS			
	Power kW	Backup time (min)	no. and type of cabinet	Weight (kg)
3 104 42	10	11	1A	167
3 104 43	10	21	1A	223
3 104 44	10	35	1A	279
3 104 02	10	49	1B	350
3 104 45	15	13	1A	220
3 104 46	15	21	1A	279
3 104 07	15	29	1B	350
3 104 47	20	9	1A	220
3 104 48	20	14	1A	279
3 104 13	20	20	1B	350
3 104 17	30	8	1A	325
3 104 19 + 3 107 63	40	8	2A	564
$3.104.20 + 2 \times 3.107.58$	60	9	3A	830

3 104 20 + 2 x 3 107 58	60 9 3A 830
*Cabinet A h=1370, Cabinet B h=	1650
3 108 69 3 108 71 3 108 73 3 108 51	Accessories Description 3.4 kW power module 5 kW power module 6.7 kW power module Additional 15 A battery charger module
3 108 54 3 108 45 3 108 75 3 109 29	Battery accessories Description Kit of 4 empty battery drawers Single drawer with 5 x 9Ah batteries (installable in multiples of 4) Single drawer with 5 9Ah long life batteries (installable in multiples of 4) KIt for separate batteries (only for 80 kW)
3 108 05 3 108 06	Additional empty battery cabinets Description 16-drawer modular battery cabinet 20-drawer modular battery cabinet
3 107 60 3 107 61 3 107 62 3 107 63 3 107 64	Additional battery cabinets with 9Ah batteries Description Modular battery cabinet with 4 drawers Modular battery cabinet with 8 drawers Modular battery cabinet with 12 drawers Modular battery cabinet with 16 drawers Modular battery cabinet with 16 drawers Modular battery cabinet with 20 drawers

Cat. Nos.	Power	cahinet
041.1100.	rowei	Cabillet

	Power kW	NO. of installable battery drawers	NO. of phases	Type of cabinet	Weight (kg)
3 103 96	10	12	1-1 / 3-3 / 3-1 / 1-3	Α	120
3 103 97	10	16	1-1 / 3-3 / 3-1 / 1-3	В	155
3 104 08	15	12	1-1 / 3-3 / 3-1 / 1-3	Α	120
3 104 03	15	16	1-1/3-3/3-1/1-3	В	155
3 104 14	20	12	1-1 / 3-3 / 3-1 / 1-3	A	120
3 104 09	20	16	3-3	В	155
3 104 18	30	-	1-1/3-3/3-1/1-3	A	146
3 104 15	30	12	3-3	В	181
3 104 19	40	-	3-3	A	146
3 104 20	60	-	3-3	Α	165

Power cabinets (empty)

	Type and NO. of installable power module	NO. of installable battery drawers	NO. of phases	Type of cabinet	Weight (kg)
3 104 22	3 x 3,4 kW	12	1-1/3-3/3-1/1-3	Α	85
3 104 31	$3 \times 3,4 \text{ kW}$	16	1-1/3-3/3-1/1-3	В	98
3 104 23	3 x 5 o 6,7 kW	12	1-1/3-3/3-1/1-3	Α	90
3 104 32	$6 \times 3,4 \text{ kW}$	12	1-1/3-3/3-1/1-3	В	102
3 104 33	3 x 5 o 6,7 kW	16	1-1/3-3/3-1/1-3	В	102
3 104 24	6 x 5 kW	-	3-3	Α	80
3 104 25	6 x 5 kW	-	1-1/3-3/3-1/1-3	Α	84
3 104 34	6 x 5 kW	12	3-3	В	104
3 104 26	$6 \times 6,7 \text{ kW}$	-	3-3	Α	80
3 104 27	$9 \times 6,7 \text{ kW}$	-	3-3	Α	90

DUAL INPUT Power cabinets (empty)

				P-J/		
	Type and NO. of installable power module	NO. of installable battery drawers	NO. of phases	Type of cabinet	Weight (kg)	NO. CTRL boards
3 104 65	3 x 3,4 kW	12	1-1/3-3/3-1/1-3	Α	86	1
3 104 66	3 x 5 o 6,7 kW	12	1-1/3-3/3-1/1-3	Α	89	1
3 104 67	3 x 5 o 6,7 kW	16	1-1/3-3/3-1/1-3	В	103	1
3 104 68	6 x 3,4 o 5 kW	-	1-1/3-3/3-1/1-3	Α	85	2
3 104 69	6 x 5 kW	12	3-3	В	106	2
3 104 71	6 x 6,7 kW	-	3-3	Α	82	2
3 104 72	9 x 6,7 kW	-	3-3	Α	91	3
3 104 73	12 x 6,7 kW	-	3-3	В	120	4

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

Description

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

Battery kit 94 Ah Description

3 109 23 kit of 20 batteries 94Ah

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

TRIMOD HE

Double conversion VFI three-phase modular UPS

Characteristics

General specifications	3 103 96 3 103 97 3 104 65	3 104 03 3 104 08	3 104 09 3 104 14 3 104 66 3 104 67	3 104 15* 3 104 18* 3 104 68 3 104 69	3 104 19 3 104 71	3 104 20 3 104 72	3 104 73
Nominal power (kVA)	10	15	20	30	40	60	80
Active power (kW)	10	15	20	30	40	60	80
Module power (kW)	3,4	5	6,7	5	6,7	6,7	6,7
Classification			On-Line dou	ble conversio	n VFI-SS-111		
System		Mod	lular, expanda	able and redu	ndant UPS sy	rstem	
Input specifications Input voltage		400, 415 3PH+ 220, 230, 240			380, 400, 41	5 3PH+N+PE	
Input frequency			45-65	Hz (43,0 ÷ 68	8.4 Hz)		
Input voltage range	400V +15%	/-20% - 230V	-			5%/-20%	
THD input current				3% (at full loa			
Compatibility with power supply units				Si			
Input power factor				> 0,99			
Output Specifications				3,33			
Output voltage		400, 415 3F+1 220, 230, 240			380, 400, 4	15 3F+N+PE	
Efficiency				Up to 96%			
Efficiency in Eco mode				99%			
Nominal output frequency	50/60 Hz selectable by the user ±2 % (standard), ±14 % (extended)					d)	
Crest factor				3:1			
Waveform				Sinusoidal			
Output voltage tolerance				±1%			
THD output voltage				<1%			
Overload capacity			10 minutes at	115%, 60 sec	onds at 135%	6	
Bypass	Automat	tic bypass (st	atic and elect	tromechanica	l) and manua	l maintenance	e bypass
Batteries							
Battery module				Plug & play			
Battery series type/voltage			VRL	A - AGM / 240			
Backup time				Configurable			
Battery charger		Smar	t charge tech	nology. 3-stag	ge advanced	cycle	
Batteries saparate configuration		no			yes		yes with k
Communication and management							
Display and signals	0.000	LED mult	i-colour statu	ines, 4 menu r s indicator, ala	arms and auc	lio signals	
Communication ports	2 RS23	2 serial ports		e, 5 ports with		s, 1 slot for in	terfaces
Backfeed protection			NC/N	IO auxiliary co	ontact		
Emergency Power Off (EPO)				Yes			
Remote management				Available			
Mechanical characteristics		4050 105		4050 1075	4070	4070	1050
Height (A-B)		1650 - 1370	J	1650 - 1370	1370	1370	1650
Width		414		414	414	414	414
Depth Installed Insurance delease		628		628	628	628	628
Installed power modules	, .	3	40	6	6	9	12
Installable battery drawers (A-B)	Up	to 16 - Up to	12	Up to 12 - 0	-	-	-
Net weight kg (A-B)		155 - 120		181 - 146	146	165	-
Ambient Conditions				0.50/			
Operating temperature/humidity			0 - 40°C /	0 - 95% non c	ondensing		
Protection rating				IP21			
Maximum audible noise at 1 m from the unit (dBA)				58-62			
Certifications							
Reference product standards			EN 62040-1	, EN 62040-2,	EN 62040-3		

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

Long Backup time table



modular battery cabinet up to 20 battery drawers installable (100 batteries)



not modular battery cabinet up to 21 batteries installable*

TRIMOD HE	cabinet type	Power (kW)	Backup time (min)	Dimensions A x L x P (mm)	Weight (kg)
3 104 43 + 3 107 58	modular	10	68	1370 x 414 x 628 + 1650 x 414 x 628	527
3 104 46 + 3 107 60	modular	15	33	2 x 1370 x 414 x 628	413
3 104 46 + 3 108 08	not modular	15	110 *	1370 x 414 x 628 + 1635 x 600 x 800	865
3 104 46 + 3 107 63	modular	15	57	2 x 1370 x 414 x 628	550
3 104 48 + 3 107 62	modular	20	35	2 x 1370 x 414 x 628	572
3 104 14 + 3 108 08	not modular	20	82 *	1370 x 414 x 628 + 1635 x 600 x 800	865
3 104 18 + 3 107 63	modular	30	12	2 x 1370 x 414 x 628	434
3 104 18 + 3 108 09	not modular	30	50 *	1370 x 414 x 628 + 1635 x 600 x 800	890
3 104 18 + 2 x 3 108 09	not modular	30	110 *	1370 x 414 x 628 + 2 x 1635 x 600 x 800	1645
3 104 19 + 2 x 3 107 58	modular	40	16	3 x 1370 x 414 x 628	801
3 104 19 + 3 108 10	not modular	40	33 *	1370 x 414 x 628 + 1635 x 600 x 800	925
3 104 19 + 2 x 3 108 10	not modular	40	82 *	1370 x 414 x 628 + 2 x 1635 x 600 x 800	1700
3 104 19 + 3 x 3 108 10	not modular	40	120 *	1370 x 414 x 628 + 3 x 1635 x 600 x 800	2430
3 104 19 + 3 x 3 107 59	modular	40	38	1370 x 414 x 628 + 3 x 1650 x 414 x 628	439
3 104 19 + 4 x 3 107 64	modular	40	60	1370 x 414 x 628 + 4 x 1650 x 414 x 628	1663
3 104 20 + 2 x 3 107 64	modular	60	15	1370 x 414 x 628 + 2 x 1650 x 414 x 628	942
3 104 20 + 4 x 3 107 63	modular	60	27	5 x 1370 x 414 x 628	1579
3 104 20 + 3 108 11	not modular	60	17 *	1370 x 414 x 628 + 1635 x 600 x 800	952
3 104 20 + 2 x 3 108 11	not modular	60	50 *	1370 x 414 x 628 + 2 x 1635 x 600 x 800	1715
3 104 20 + 3 x 3 108 11	not modular	60	80 *	1370 x 414 x 628 + 3 x 1635 x 600 x 800	2474
3 104 20 + 4 x 3 108 11	not modular	60	110 *	1370 x 414 x 628 + 4 x 1635 x 600 x 800	3234

^{*} Configurations with battery cabinet (20 x 94 Ah). Dimensions and weight: A x L x P 1635 x 600 x 800 (mm), 785 kg

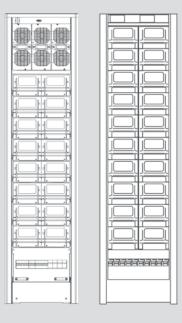
NOTE: The stated Backup times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.



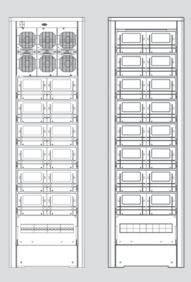
TRIMOD HE

Examples of configuration

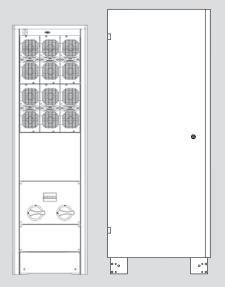
TRIMOD HE 10 kW 2 modular cabinets Backup time 68 min Weight 527 kg



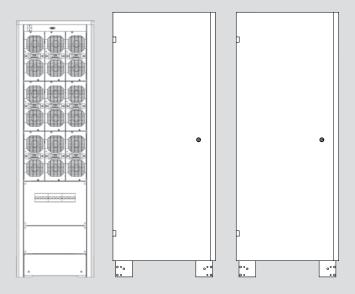
TRIMOD HE 15 kW 2 modular cabinets Backup time 57 min Weight 550 kg



TRIMOD HE 30 kW 1 modular cabinet, 1 not modular cabinet (20 \times 94 Ah) Backup time 50 min Weight 890 kg



TRIMOD HE 60 kW 1 modular cabinet, 2 not modular cabinets **(20 x 94 Ah)** Backup time 50 min Weight 1715 kg



ARCHIMOD HE

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

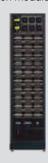
ARCHIMOD HE

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

Configurations

20

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



40

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



3 103 61

3 108 73

3 108 55

Cat. Nos. Configurable cabinets

	3			
	Nominal power (kVA)	Number of battery modules	Number of control modules	Number of phases
3 104 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	3-3
3 104 64	120	_	3	3-3

Additional cabinets for batteries

Description

3 108 18 Empty modular battery cabinet

3 107 17 Empty Battery cabinet for long life batteries (21 x 94Ah - WxLxD 1635x600x800 mm)

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 drawers

3 108 56 Kit of 3 empty battery drawers

3 108 51 Additional charger module

3 108 65 Cover for empty battery slot

3 108 66* 3 Cover for empty power module slot

60

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



80

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



100

Power: 100 kVA Backup time: 10 min 2 Cabinets 3 Control modules 2 Power expansion modules

15 Power modules36 Battery drawers1 Distribution module



120

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



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

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

ARCHIMOD HE

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

eneral characteristics	3 104 59	3 104 60	3 104 61	3 104 62	3 104 63	3 104 64
Nominal power (kVA)	20	40	60	80	100	120
Active power (kW)	20	40	60	80	100	120
Module power (kVA)			ver module (20 l			
Technology			-line double cor			
System	Mod				ngle cabinet, 19'	' rack
Hot Swap capacity					nout switching o	
put characteristics			,			
Input voltage		15 3F+N+PE 30, 240 1F)		380, 400, 4	15 3F+N+PE	
Input frequency	•	·	45-65 Hz ±2°	% Autosensing		
Input voltage range	230 V + 15	%/-20% 1P			%/-20% 3P	
Input voltage range	400 V + 15	%/-20% 3P		400 V +15	%/-20% 3P	
THD of input current			< :	3%		
Compatibility with gensets	Configurable for synchronisation between the input and output frequencies even for the highest frequency ranges, ± 14%			encies,		
Input power factor			> (),99		
utput characteristics						
Output voltage	380, 400, 415 3F+N+PE (o 220, 230, 240 1F) 380, 400, 415 3F+N+PE					
Efficiency	Up to 96%					
Nominal output frequency						
Peak factor						
Tolerance on output voltage						
Overload capacity	10 minutes at 113% and 60 seconds at 135%					
Efficiency in Eco mode				9%		
Bypass		Aı	utomatic and ma	aintenance bypa	ass	
atteries						
Battery modules	Th		ial operation is i	required to conr	tion in the cabin nect them	et.
Battery range type/voltage				M / 252 Vdc		
Backup time	Configura	able and extend	dable, both inter	nally and with a	dditional battery	cabinets
Battery charging		Smart Cl	narge technolog	y 3-step advan	ced cycle	
ommunication and management						
Screen and signalling	4 x 20-char	acter lines, 4 m	enu navigation b	outtons, multi-co	oloured LED sta	tus indicator
Communication ports	For each co		2 slots for SNM	P interfaces (or	evel port, 5 volt- ptional)	free contact
Back-feed protection			N/C + N/O au	xiliary contact		
Emergency stop				es		
Remote control			Avai	lable		
lechanical characteristics						
Dimensions (H x W x D) (mm)			T .	x 912 (42U)		
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
mbient conditions						
0 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		0	-40 °C / 0 - 95%	6 non condensi	ng	
Operating temperature/humidity	0 - 40 °C / 0 - 95% non condensing					
Operating temperature/numidity Protection index Maximum noise audible at 1 m (dBA)				21 ÷65		

Reference product standards

EN 62040-1, EN 62040-2, EN 62040-3

Keor MOD

UPS up to 125A

UPS Modular three-phase double conversion VFI

Configuration examples



3 104 80

Articles UPS - empty power cabinets

	Power (kW)	Installable battery drawers	Distribution	Weight (kg)
3 104 80	25 - 125	from 2 to 5 battery drawers	3-3	
3 104 81	25 - 250	-	3-3	

	Accessories Description
	25 kW power module
3 106 76	Empty battery blocks kit for 6 batteries (to be used in sets of 4 per drawer)
3 106 77	Kit of 2 EMPTY battery drawers
3 106 78	Kit of 4 battery blocks (6 x 9 Ah batteries)
3 106 79	Kit of 4 battery blocks (6 x 11 Ah batteries)
3 109 62	Kit of 4 battery blocks (6 x 9Ah Long Life batteries)

25 Power: 25 kW Backup time: 48 min. when 100% charged 1 Power module 10 Battery drawers

75 Power: 75 kW Autonomy: 11 min. when 100% charged 3 Power modules 10 Battery drawers



125Power: 125 kW
Autonomy: 5.2 min. when 100% charged 5 Power modules
10 Battery drawers



50 Power: 50 kW 2 Power modules

UPS up to 250A



100 Power: 100 kW 4 Power modules



250 Power: 250 kW 10 Power modules



Codes in red new products.

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



Keor MOD

UPS Modular three-phase double conversion VFI

neral specifications													
Nominal power (kVA)	25	50	75	100	125	150	175	200	225	25			
Active power (kW)	25	50	75	100	125	150	175	200	225	25			
Module power (kW)		'		<u>'</u>	2	5		'					
Classification				On-Line	e double co	nversion VFI	-SS-111						
No. Power modules	1	2	3	4	5	6	7	8	9	10			
System		Modular, expandable and redundant UPS system											
ut specifications													
Input voltage		400V 3F+N+PE 45-65 Hz (43.0 ÷ 68.4 Hz)											
Input frequency													
Input voltage range		400V +15%/-20% - 230V +15%/-20%											
THD input current		< 3% (at full load)											
Compatibility with power supply units					Ye	es							
Input power factor					> 0	.99							
put Specifications													
Output voltage					380, 40	0, 415V							
Efficiency (power module)					Up to	96.8%							
System efficiency					Up to	96.5%							
Efficiency in Eco mode					99	9%							
Nominal output frequency			50/60 Hz	selectable b	y the user \pm	2 % (standa	rd), ±14 %	(extended)					
Crest factor					3	:1							
Waveform					Sinus	soidal							
Output voltage tolerance					±1	%							
THD output voltage				<0.5% with	linear load, <	<1% with no	n-linear loa	d					
Overload capacity		10 minutes at 125%, 60 seconds at 150%											
Bypass		Auton	natic bypas	s (static and	electromec	hanical) and	l manual ma	aintenance l	bypass				
teries					DI	2 1							
Battery module						& play							
Battery series type/voltage				VRL		2 V, 9 Ah - 1	1 Ah						
Autonomy						jurable		-1-					
Battery charger		V		mart charge									
Independent battery configuration mmunication and management		Yes, maximum 5 sets of independent batteries (configurable as common or separate units)											
Display				10-inc	h rotating co	olour touch s	screen						
			2 x RS485 n	orts (one for				ting contac	ts				
Communication ports		-		tput floating					ιο,				
Back feed protection					NC/NO aux	iliary contac	t						
Emergency Power Off (EPO)					Ye	es							
Cold start push-button					Ye	es							
Remote management					Avai	lable							
chanical characteristics													
Height (mm)					19								
			1990										
Width (mm)					60			970					
Depth (mm)													
Depth (mm) Installable power modules			Up to 5					Up to 10					
Depth (mm) Installable power modules Installable battery drawers			Up to 5 Up to 10					Up to 10					
Depth (mm) Installable power modules Installable battery drawers Net weight kg								Up to 10 —					
Depth (mm) Installable power modules Installable battery drawers Net weight kg								Up to 10 —					
Depth (mm) Installable power modules Installable battery drawers Net weight kg				0 - 40	9		nsing	Up to 10 —					
Depth (mm) Installable power modules Installable battery drawers Net weight kg				0 - 40	9°C/0-95%	70	nsing	Up to 10 —					
Depth (mm) Installable power modules Installable battery drawers Net weight kg Installable battery drawers Net weight kg Installable battery drawers Operating temperature/humidity				0 - 40	9°C / 0 - 95% IP	non conde	nsing	Up to 10 —					
Depth (mm) Installable power modules Installable battery drawers Net weight kg Ibient Conditions Operating temperature/humidity Protection rating aximum audible noise at 1 m from the unit (dBA)				0 - 40	9°C / 0 - 95% IP	non conde	nsing	Up to 10 —					
Depth (mm) Installable power modules Installable battery drawers Net weight kg Ibient Conditions Operating temperature/humidity Protection rating aximum audible noise at 1 m from the unit (dBA)					9°C / 0 - 95% IP 50	70 5 non conde 20 -65		Up to 10 —					
Depth (mm) Installable power modules Installable battery drawers Net weight kg Installable battery drawers Install					9°C / 0 - 95% IP 50	non conde		Up to 10 —					
Depth (mm) Installable power modules Installable battery drawers Net weight kg Installable positions Operating temperature/humidity Protection rating aximum audible noise at 1 m from the unit (dBA) Informity Certifications Invices:			Up to 10	EN 620	9°C / 0 - 95% IP 50 140-1, EN 62	70 5 non conde 20 -65 040-2, EN 6	2040-3						
Depth (mm) Installable power modules Installable battery drawers Net weight kg Installable holies at 1 m from the unit (dBA) Informity			Up to 10		9°C / 0 - 95% IP 50 140-1, EN 62 vith "plug & 1	70 5 non conde 20 -65 040-2, EN 6	2040-3 modules a						





3 104 75

3 108 73

Cat. Nos.	Empty preconfigured cabinets					
	The cabinets a preconfigured indicated in the	are supplied en for the power a e table	npty and are and capacity			
	Nominal power kW	Number of Installable power modules	Number of phases			
3 104 75	240	36	3-3			
310476 + 310477*	480	72	3-3			

^{*} ordered both

	Communication accessories
	Description
3 109 30	PROFESSIONAL network interface, internal version (card)
3 109 31	STANDARD network interface, internal version (card)
3 109 35	INDUSTRIAL network interface, internal version (card)

	Accessories
	Description
3 108 73	6.7 kW power mo

odule Additional charger module 3 108 51 0 205 82 Set of 4 lifting rings 3 108 66* 3 covers for empty power module slot

 $\ensuremath{^{\star}}$ always be used when there are empty slots

Examples of configuration

ARCHIMOD HE160

Power: 160 kW scalable up to 240 1 Distribution cabinet

24 Power modules 4 covers for empty power module slot



ARCHIMOD HE240 Power: 240 kW 1 Distribution cabinet 36 Power modules



ARCHIMOD HE320 Power: 320 kW scalable up to 480 1 Distribution cabinet 48 Power modules 6 covers for empty power module slot



ARCHIMOD HE480 Power: 480 kW 1 Cabinet 72 Power modules 1 Distribution cabinet





ARCHIMOD HE 240/480

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

Chara	cteristics
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General characteristics	3 104 75	310476 + 310477			
Nominal power (kW)	240	480			
Module power (kW)	er (kW) 6.7 per power module (20 kW with 3 modules), cosφ1				
Technology	On-line double conversion VFI-SS-111				
System	Modular, expandable and redu	undant system in a single cabinet			
Input characteristics					
Input voltage	380, 400, 415 3PH+N+PE				
Input frequency	45-65 Hz (autosensing)				
Input voltage range	+ 15%	%/- 20%			
THD of input current	<	3%			
Compatibility with gensets	Configurable for synchronisation between the input and output frequencies, even for the highest frequency ranges, \pm 14%				
Input power factor	>	0.99			
Output Specifications					
Output voltage	380, 400, 41	15 3PH+N+PE			
Efficiency	Up to	96%			
Nominal output frequency	50/	60 Hz			
Peak factor	3	.5:1			
Tolerance on output voltage	±	1%			
Permitted overload	10 minutes at 115% and 60 seconds at 135%				
Efficiency in Eco mode	99%				
Bypass	Static, electromechanical and maintenance bypass				
Batteries					
Battery range type/voltage	VRLA - AGM/252 VDC				
Backup time	Configurable and extendable,	with additional battery cabinets			
Battery charging	Smart Charge technology 3-step advanced cycle				
Communication and management					
Screen and signalling		play with 4 x 20-character lines, llti-coloured LED status indicator			
Communication ports	2x RS232 com 2x 5 volt-free contacts 2x lo	munications port, ogic level port, N.2 SNMP slot			
Back-feed protection	N/C + N/O a	uxiliary contact			
Emergency stop	١	/es			
Mechanical characteristics					
Dimensions (W x H x D) (mm)	1350 x 2050 x 750	820 x 2050 x 750 + 1650 x 2050 x 750			
Installable power modules	up to 36	up to 72			
Installable battery modules	-	-			
Net weight (kg) *	440	256 + 610			
Ambient conditions					
Operating temperature/humidity	0 - 40°C / 0 - 95°	% non condensing			
Protection index	IF	² 21			
Maximum noise audible at 1 m (dBA)	<	<80			
Certifications					
Reference product standards EN 62040-1, EN 62040-2, EN 62040-3					

EN 62040-1, EN 62040-2, EN 62040-3

BATTERY CABINET

FOR ALL THREE-PHASE UPS



310657 up to 20 batteries 105 Ah



3 106 59 up to 62 batteries 41 Ah



310982 up to 62 batteries 105 Ah

Universal battery cabinets for all three-phase Legrand UPS from 10kVA up to 800kVA power range.

The Battery cabinet is designed to house standard VRLA Batteries of capacity range from 24Ah to 105Ah (C10). The battery cabinets are available in 5 different mechanical dimensions, are able to contain various combination of Batteries, up to maximum 63 blocks, connected in series and parallel, with positive, negative and middle point poles and with max DC voltage of 800Vdc.



Battery cabinet

For all three-phase UPS

Battery cabinet

For all three-phase UPS





Cat. Nos. EMPTY BATTERY CABINET*

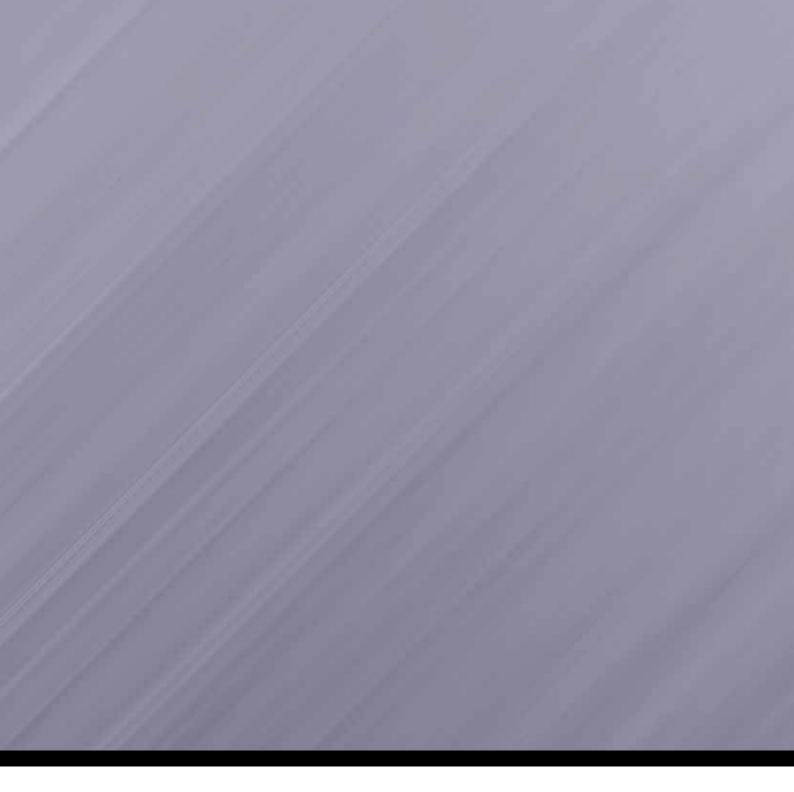
Cat. Nos. EMPTY BATTERY CABINET							
Cabinet Dimensions (mm)	TOT Weight (kg)	Indicative Battery Capacity (Ah)	Standard No. Of Blocks	UPS Compatibility			
800x900x1420	213	24	20	Trimod HE			
800x900x1420	213	24	60	Keor T			
800x900x1420	214	24	40	Trimod HE			
800x900x1420	213	24	60	Trimod HE			
800x900x1420	213	41	20	Trimod HE			
800x900x1420	214	41	40	Trimod HE			
800x900x1420	213	55	20	Trimod HE			
800x900x1420	215	70-93	20	Trimod HE			
800x900x1420	215	105	20	Trimod HE			
800x900x1900	253	24	21	Archimod HE			
800x900x1900	253	24	60-62	Keor HPE			
800x900x1900	254	24	42	Archimod HE			
800x900x1900	253	24	63	Archimod HE			
800x900x1900	253	41	21	Archimod HE			
800x900x1900	253	41	60-62	Keor HPE / Keor T			
800x900x1900	254	41	42	Archimod HE			
800x900x1900	253	41	60	Trimod HE			
800x900x1900	253	55	21	Archimod HE			
800x900x1900	254	55	42	Archimod/Trimod HE			
800x900x1900	255	70-93	21	Archimod HE			
800x900x1900	255	105	21	Archimod HE			
1200x900x1900	333	55	60-62	Keor HPE / Keor T			
1200x900x1900	333	55	60	Trimod HE			
1200x900x1900	335	70-93	50-52	Keor HP			
1200x900x1900	336	70-93	40-42	Archimod/Trimod HE			
1200x900x1900	335	105	50-52	Keor HP			
1200x900x1900	336	105	42	Archimod/Trimod HE			
1400x900x1900	385	70-93	60-62	Keor HPE / Keor T			
1400x900x1900	385	70-93	60	Trimod HE			
1400x900x1900	385	105	60-62	Keor HPE / Keor T			
1400x900x1900	385	105	60	Trimod HE			
1400x900x2080	415	105	21	Archimod HE 240/480			
1400x900x2080	416	105	42	Archimod HE 240/480			
	800x900x1420 800x900x1900 800x900x1900 800x900x1900 800x900x1900 800x900x1900 800x900x1900 800x900x1900 800x900x1900 800x900x1900 1200x900x1900 1400x900x1900	Cabinet Dimensions (mm) TOT Weight (kg) 800x900x1420 213 800x900x1420 214 800x900x1420 214 800x900x1420 213 800x900x1420 213 800x900x1420 214 800x900x1420 215 800x900x1420 215 800x900x1420 215 800x900x1900 253 800x900x1900 254 800x900x1900 255 800x900x1900 255 800x900x1900 333 1200x900x1900 335 1200x900x1900 335 1200x900x1900 336 1400x900x1900 385 1400x900x1900 385 </td <td>Cabinet Dimensions (mm) TOT Weight (kg) Indicative Battery Capacity (Ah) 800x900x1420 213 24 800x900x1420 214 24 800x900x1420 213 24 800x900x1420 213 24 800x900x1420 213 41 800x900x1420 214 41 800x900x1420 215 70-93 800x900x1420 215 70-93 800x900x1420 215 105 800x900x1420 215 105 800x900x1900 253 24 800x900x1900 253 24 800x900x1900 253 24 800x900x1900 253 41 800x900x1900 254 55 800x900x1900 254 55 800x900x1900 255 70-93</td> <td>Cabinet Dimensions (mm) TOT Weight (kg) Indicative Battery Capacity (Ah) Standard No. Of Blocks 800x900x1420 213 24 20 800x900x1420 214 24 40 800x900x1420 214 24 40 800x900x1420 213 24 60 800x900x1420 213 41 20 800x900x1420 214 41 40 800x900x1420 215 70-93 20 800x900x1420 215 70-93 20 800x900x1420 215 105 20 800x900x1420 215 105 20 800x900x1420 215 105 20 800x900x1900 253 24 21 800x900x1900 253 24 42 800x900x1900 253 41 60-62 800x900x1900 253 41 60-62 800x900x1900 253 41 42 800x900x1900 253 41</td>	Cabinet Dimensions (mm) TOT Weight (kg) Indicative Battery Capacity (Ah) 800x900x1420 213 24 800x900x1420 214 24 800x900x1420 213 24 800x900x1420 213 24 800x900x1420 213 41 800x900x1420 214 41 800x900x1420 215 70-93 800x900x1420 215 70-93 800x900x1420 215 105 800x900x1420 215 105 800x900x1900 253 24 800x900x1900 253 24 800x900x1900 253 24 800x900x1900 253 41 800x900x1900 254 55 800x900x1900 254 55 800x900x1900 255 70-93	Cabinet Dimensions (mm) TOT Weight (kg) Indicative Battery Capacity (Ah) Standard No. Of Blocks 800x900x1420 213 24 20 800x900x1420 214 24 40 800x900x1420 214 24 40 800x900x1420 213 24 60 800x900x1420 213 41 20 800x900x1420 214 41 40 800x900x1420 215 70-93 20 800x900x1420 215 70-93 20 800x900x1420 215 105 20 800x900x1420 215 105 20 800x900x1420 215 105 20 800x900x1900 253 24 21 800x900x1900 253 24 42 800x900x1900 253 41 60-62 800x900x1900 253 41 60-62 800x900x1900 253 41 42 800x900x1900 253 41			

310986 1400x900x2080 415 105 63 Archimod HE 240/480

Characteristics

General characteristics			
Nominal Voltage	800 Vdc		
Battery segregation	Internal panel in Polycarbonate		
Switches and protection access	Internal bottom front side		
Disconnection and protection devices *	Fuse Holders Switch with NH fast fuses (sized accordingly with Battery Power)		
Fuse holder Open/Close signal*	Auxiliary Micro Switch		
Cable Entrance	bottom sides (both left and right)		
Cable connections	On Fuse holder terminals		
Max Cable side entrance	3x 150mm ²		
Cabinet Access	Front door with key lock and removable sides and rear panels		
Shelter Bent Metal Sheet Thickness	20/10		
Shelves Bent Metal Sheet Thickness	30/10		
Protection Degrees	IP20 (Optional IP21)		
Colour	RAL 7016		
Standard	IEC-EN 62040-1		

 $^{^{\}star}$ in the cabinet are included Fuse Holder Switch and Fuses, Batteries not ioncluded



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

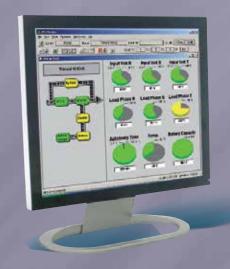
- Unexpected load connections, such as stoves and vacuum cleaners, can cause overloads which annul the protection provided by the UPS.
- Installation in unmanned areas such as EDP rooms and basements or round-the-clock operations can make alarm reception difficult or impossible. This consequently put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

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



COMMUNICATION ACCESSORIES

UPS SUPERVISION SYSTEM







CHARACTERISTICS OF THE RANGE

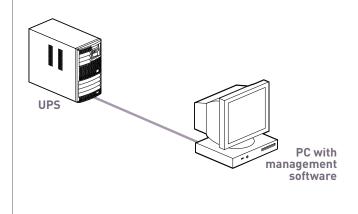
Network interfaces, for remote control of UPS.

Sensors for monitoring the ambient temperature and humidity.

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

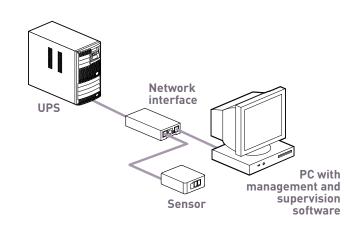
"Software" solution

The Management is performed by the software installed on the PC or server to protect. This solution is recommended for small installations where the UPS is installed close to PC or server.

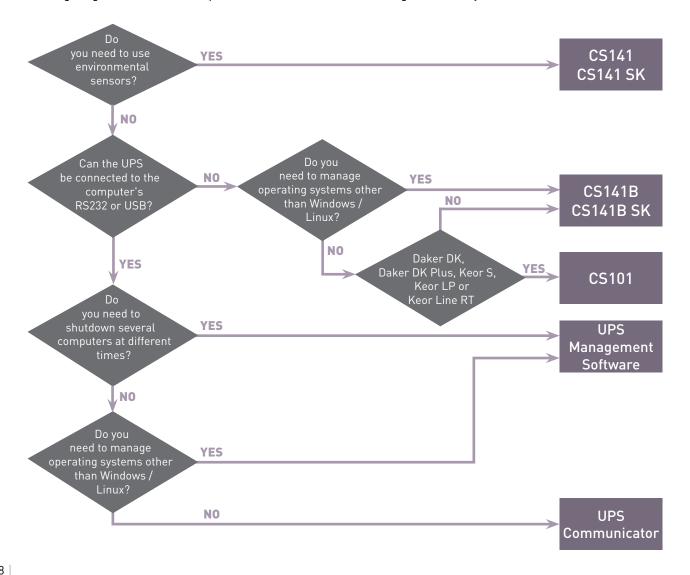


"Hardware + software" solution

The System is made by a set of communication accessories and software allowing to perform more extended supervision, direct or remotely by INTERNET.



The following diagram shows how is possible to choose the best configuration for your needs:





ACCESSORIES

Network interfaces

ACCESSORIES

Network interfaces



Cat. Nos. CS141 Network interface

The network interfaces for managing UPS do not require any external software. They include a proprietary system capable of real-time control of the operation of the UPS and managing numerous events (power failure, overload, bypass, problem, etc.) andas a result executing a series of actions,

- Memorisation of events in time-stamped log files
 Regular memorisation of the main operating parameters
- Sending e-mailsExecution of scheduled actions
- · Display of pop-up messages, shutdown, and execution of customised ncommands on remote computers

- Stopping and restarting the UPS
 Sending "Wake on LAN (WOL)" signals
 Support of the SNMP protocol
 Sending SNMP trap messages
 Displaying data and configuration via a web browser (Internet Explorer, Mozilla Firefox, Opera, etc.)
 Firmware updatable, which can be downloaded free

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

Available in external and internal version (in this case 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 an additional RS 232/RS 485 communication ports.

3 109 30 CS141 SK

PROFESSIONAL network interface, internal version (card)

3 109 31 CS141B SK

STANDARD network interface, internal version (card)

3 109 32 CS141

PROFESSIONAL network interface, external version

3 109 33 CS141B

STANDARD network interface, external version

3 109 34 CS141M

INDUSTRIAL network interface, external version

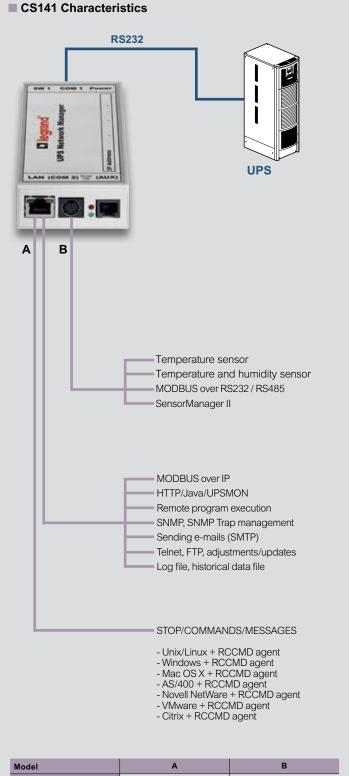
3 109 35 CS141M SK

INDUSTRIAL network interface, internal version (card)

CS101 Network interface

3 109 38

Network interface, internal version (card) for Daker DK, Daker DK Plus, Keor S, Keor LP or Keor Line RT



Model	A	В
CS141B	X	
CS141B SK	X	
CS141	X	X
CS141 SK	X	X
CS141M	X	X*
CS141M SK	X	X*

^{*} Only Modbus over RS 485

ACCESSORIES

Sensors and other accessories



Cat. Nos. Sensors

Description

3 108 97 SM_T_COM

Temperature sensor for direct connection to the COM2 port on the CS141 and CS141 SK interfaces SensorManager II. Cannot be used with SensorManager II.

3 108 98 SM_T_H_COM

Combined temperature and humidity sensor for direct connection to the COM2 port on the CS141 and CS141 SK interfaces SensorManager II.

Cannot be used with SensorManager II.

3 108 99 SensorManager II

Manager for sensors: connects to the COM2 port on the CS141 and CS141 SK interfaces and manages up to 8 analogue inputs, 4 digital inputs and 4 digital outputs.

The configuration is managed directly by the CS141 interfaces (PROFESSIONAL version), described previously. The "Scale Divisor" and "Off set" configuration functions enable SensorManager to be used with any analogue device (see characteristics)

It includes 1 "SM_T" temperature sensor.

3 109 00 SM_T

Temperature sensor that can only be used with SensorManager. It enables another "SM_T" sensor to be connected using a special connector.

3 109 01 SM_T_H

Combined temperature and humidity sensor that can. Only compatible with SensorManager II.

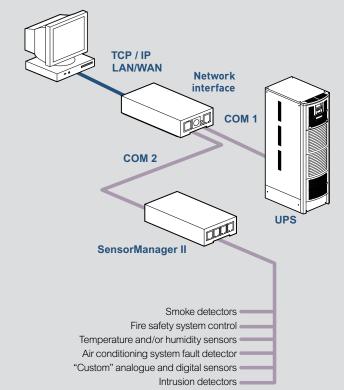
3 109 02 Door sensor

This consists of a reed switch and a magnet. Only compatible with SensorManager II.

3 109 03 SM_flash

Flashing illuminated signal.

Only compatible with SensorManager II.



■ SensorManager II technical characteristics

Supply voltage (VDC)	9-24
Temperature (°C)	0 ÷ 65
Non-condensing humidity (%)	10 ÷ 80
Analogue inputs (V)	0 ÷ 10
Digital inputs (V)	9 ÷ 24
100 mA digital outputs (V)	9 ÷ 24
Dimensions (WxDxH) (mm)	70 x 130 x 30

Sensor technical characteristics

	3 108 97	3 108 98	3 109 00	3 109 01
Supply voltage Vdc	9 to 15*	9 to 15*	15 to 24**	15 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	27 × 70 × 70			

* Direct from the network interface ** Direct from SensorManager II



Software

ACCESSORIES

Management software

ACCESSORIES Management software





Cat. Nos. Software

Description

downloadable UPS Communicator

Set of applications for real-time control of the operation of the UPS and to ensure the integrity of the systems on the computers supplied by this UPS. Operates with an agent for executing commands on remote computers (RS System).

3 108 79 UPS Management Software

Set of applications for real-time control of the operation of the UPS and to ensure the integrity of the systems on the computers supplied by this UPS.

Requires the addition of an agent for executing commands on remote computers (RCCMD).

3 108 80 UPS Management Software

Set of applications for real-time control of the operation of the UPS and to ensure the integrity of the systems on the computers supplied by this UPS.

Requires the addition of an agent for executing commands on remote computers (RCCMD).

Includes an RS232/USB converter.

RCCMD

Software enabling a computer to receive and execute, using the TCP/IP protocol, all the remote commands sent by the management systems of the UPS.

An RCCMD licence is necessary for each computer to be

controlled.

Only the licences are supplied: the software can be downloaded on the Internet (after requesting the activation code).

3 108 85 RCCMD

Multi-OS RCCMD licence

3 108 86 RCCMD

Pack of multi-OS RCCMD licences

3 108 87 RCCMD

Pack of 10 multi-OS RCCMD licences

3 108 88 RCCMD

Pack of 25 multi-OS RCCMD licences

3 108 89 RCCMD

Pack of 50 multi-OS RCCMD licences

3 108 90 RCCMD

RCCMD licence for AS/400 (minimum release: V5R3M0)

UNMS

"WEB based" application capable of real-time supervision of the status of all UPS, via the management systems of the UPS and

the TCP/IP protocol.

3 108 91 UNMS

Licence for 25 UPS

3 108 92 UNMS

Licence for 50 UPS

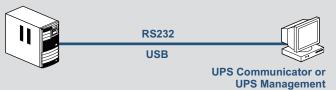
3 108 93 UNMS

Licence for 150 UPS

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

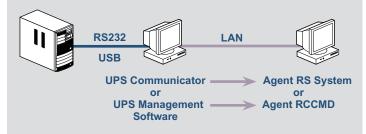
Local protection

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



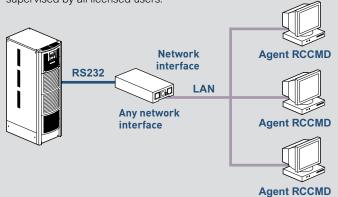
■ Extended local protection

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



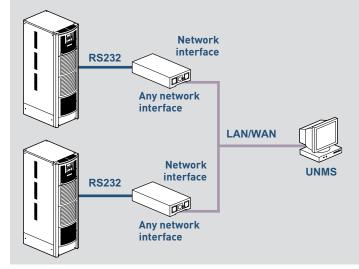
■ Protection via TCP/IP network

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



■ Centralised protection

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





Reliable

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

Excellent

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

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

Tailor-made

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

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





SITE INSPECTION, INSTALLATION SUPERVISION.

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

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

SITE TEST, COMMISSIONING.

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



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

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



PREVENTIVE MAINTENANCE

Electronic equipment and power systems, such as UPS, contain life-limited components and parts that must be replaced according to the manufacturer's specifications. To ensure optimal performance and to protect your critical application from potential downtime, it is crucial to perform

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

CORRECTIVE MAINTENANCE, EMERGENCY CALL

In the event of an Emergency Call, our worldwide service network, with engineers and spare-parts stocks strategically located as close as possible to your site, guarantees a fast intervention time with 24/7/365 assistance. After connecting his laptop to your UPS, very powerful diagnostic software helps our engineer to identify the fault, thus ensuring short MTTR (Mean Time To Repair). Corrective actions are performed such as part replacement, adjustments and upgrades to return the UPS system back to normal operation.



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