

KEOR HP THREE-PHASE from 100 to 800 kVA legrand





Legrand UPS SUPERIOR PERFORMANCE SERVICE CONTINUITY AND ENERGY EFFICIENCY

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

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





KEOR HP THE NEW UPS WITH POWER UP TO 800kVA



KEOR HP POWER UPS

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







Compact size with the best balance between footprint and power.

EASY installation and maintenance

Parallelable up to 4,8MVA

Integrated transformer for the galvanic separation between AC/DC side

High efficiency up to 95% (TüV certified)

Output power factor 0,9



KEOR HP 200-250-300



400-500-600-800

KEOR HP FLEXIBLE SOLUTIONS

EASY INSTALLATION AND MAINTENANCE

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

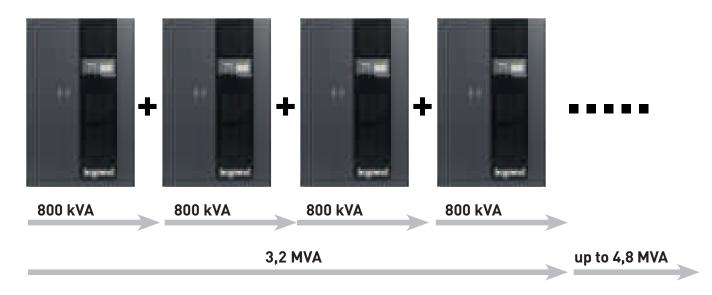




PARALLELABLE UP 6 UNITS

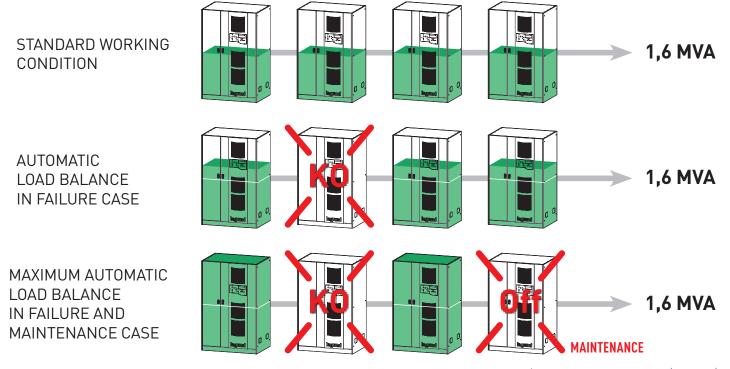
TO INCREASE THE POWER

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



TO INCREASE THE SERVICE CONTINUITY

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



KEORHP WHEN POWER TAKES CARE OF THE ENVIRONMENT





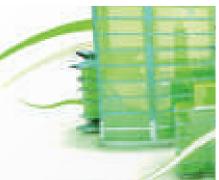






Replacing an existing UPS with the KEOR HP allows immediate power savings for the same operational load.











HIGH TECHNOLOGY (IGBT RECTIFIER)

Thanks to the input circuit with integrated PFC (IGBT rectifier technology), the harmonic distorsion on the input line is significantly reduced (THDi<3%). The input power factor is almost unity (> 0.99). These features make it highly compatible with the system upstream of the UPS without requiring additional filtering or over sizing.



LOWENVIRONMENTAL IMPACT 30% less C0² emission

The innovative technology of KEOR HP allows:

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

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

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

Cat.Nos.	100	125	160	200	250	300
General characteristics						
Nominal power (kVA)	100	125	160	200	250	300
Active power (kW)	90	112,5	144	180	225	270
Technology			On-line double conv	ersion VFI-SS-111		
Waveform	Sinusoidal					
Architecture	Conventional UPS, parallelable up to 6 unit					
nput characteristics						
Input voltage			380-415 V	′ 3Ph+N		
Input frequency			50-60 Hz ± 10%	6 autosensing		
Input voltage range			400 V -20°	% / + 15%		
THD of input current			<30	%		
Compatibility with diesel generators		Configurable for	synchronism betwee	en the input and out requency variations	put frequencies,	
Input power factor			> 0,	99		
Output characteristics						
Output voltage			380, 400, 415 V 3	Ph+N selected		
Efficiency			up to '	95%		
Output frequency (nominal)			50 /60 Hz selec	cted ± 0,001%		
Crest factor			3:′			
THD of output voltage			<5% (with non	-linear load)		
Output power factor			0,9			
Output voltage tolerance			± 1% (with ba	lance load)		
Efficiency in Eco mode			980	*		
Bypass	Built-in Automatic and Maintenance By-pass					
Batteries				,		
Backup time extension			Scalable with addition	nal battery cabinets	<u> </u>	
Battery type	VRLA - AGM Maintenance-free Lead Acid Batteries					
Battery test			Automatic			
Battery Recharge Profile			IU (DIN4			
Communication and management			(5			
-			Four LED's to show	status at a glance		
LCD Display		Four menu-c	Iriven interface butto		glance LEDs	
Communication Ports			RS232 and USI	B serial ports		
Audible Alarm		Acous	tic alarms and warn	ings, configurable d	lelays	
Configuration Setting			uration by firmware,	<u> </u>		
Net Interface Slot			ilt-in dry contact PCE			
Emergency Power Off (EPO)			Ye	-		
Remote Management			Availa			
Battery temperature probe			Ye			
Physical characteristics						
Dimensions H x W x D (mm)		1670 x 815 x 825			1905 x 1220 x 855	
Net Weight (kg)	625	660	715	970	1090	1170
		x 1400 x 830 (50 ba			1400 x 830 (50 batte	
Dimensions battery cabinet H x W x D (mm)	m) 1900 x 2800 x 830 (100 batteries) 1900 x 2800 x 830 (100 batteries)					
Ambient conditions						
Operating temperature (°C)		0÷40			0÷40	
Relative humidity (%)		<95% not condensi	ng	<9	75% not condensing	
Protection index		IP20	J	.,	IP20	
Noise at 1 m (dBA)		< 60			< 62	
Conformity					· 02	
Reference product standards			EN 62040-1, EN 620	1/(N_2 ENL/20/0 2		
iverer ence hi odact standal ds			LIN 02040-1, EIN 020	040-2, LIN 02040-3		



KEOR HP 400-500-600-800

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

Cat.Nos.		400	500	600	800
General char	racteristics				
	Nominal power (kVA)	400	500	600	800
	Active power (kW)	360	450	540	720
	Technology		On-line double con	version VFI-SS-111	
	Waveform		Sinus	oidal	
	Architecture		Conventional UPS, pa	rallelable up to 6 unit	
Input charact	teristics				
	Input voltage		380-415	/ 3Ph+N	
	Input frequency		50-60 Hz ± 10°	% autosensing	
	Input voltage range		400 V -20	% / + 15%	
	THD of input current		<3	%	
	Compatibility with diesel generators	Configura	able for synchronism betwe even for the highest		equencies,
	Input power factor		> 0	,99	
Output chara	1 1				
	Output voltage		380, 400, 415 V 3	BPh+N selected	
	Efficiency		up to		
	Output frequency (nominal)		50/60 Hz sele	cted ± 0,001%	
	Crest factor		3:	1	
	THD of output voltage		<5% (with nor	n-linear load)	
	Output power factor		0,	9	
	Output voltage tolerance		± 1% (with b	alance load)	
	Efficiency in Eco mode		>98	3%	
	Bypass	Built-in Automatic and Maintenance By-pass			
Batteries	71			, , , , , , , , , , , , , , , , , , , ,	
	Backup time extension		Scalable with addition	nal battery cabinets	
	Battery type		VRLA - AGM Maintenance	e-free Lead Acid Batteries	
	Battery test		Automatic	or manual	
	Battery Recharge Profile		IU (DIN	41773)	
Communicat	ion and management				
	LCD Display	Fourr	Four LED's to show nenu-driven interface butto		e LEDs
	Communication Ports		RS232 and US	B serial ports	
	Audible Alarm		Acoustic alarms and warr	·	
	Configuration Setting	Auto	configuration by firmware		ineer
	Net Interface Slot	, luce	Built-in dry contact PC		-
	Emergency Power Off (EPO)		Ye	•	
	Remote Management		Avail		
	Battery temperature probe		Ye		
Physical char					
,	Dimensions H x W x D (mm)	1920 x 1990 x 950	2020 x 2440 x 950	2020 x 2440 x 950	1920 x 3640 x 950
	Net Weight (kg)	1820	2220	2400	3600
	Dimensions battery cabinet H x W x D (mm)		30 (100 batteries)	×	
Ambient cond			,		
	Operating temperature (°C)		0÷	40	
	Relative humidity (%)	v÷40 <95% not condensing			
	restaure manualty (70)	-			
	Protection index				
	Protection index Noise at 1 m (dBA)			52	
Conformity	Protection index Noise at 1 m (dBA)			52	

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

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





KEOR HP 100

KEOR HP 200

Pack	Model	UPS (without batteries)					
		NOMINAL POWER kVA	ACTIVE POWER KW	DIMENSIONS H x W x D (mm)	NET WEIGHT (KG)		
	KEOR HP 100	100	90	1670 x 815 x 825	625		
	KEOR HP 125	125	112,5	1670 x 815 x 825	660		
	KEOR HP 160	160	144	1670 x 815 x 825	715		

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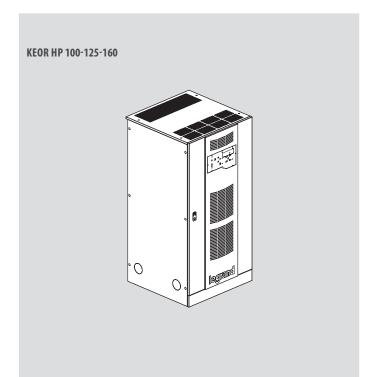
	NOMINAL POWER kVA	ACTIVE POWER kW	DIMENSIONS H x W x D (mm)	NET WEIGHT (KG)
KEOR HP 200	200	180	1905 x 1220 x 855	970
KEOR HP 250	250	225	1905 x 1220 x 855	1090
KEOR HP 300	300	270	1905 x 1220 x 855	1170

OPTIONS

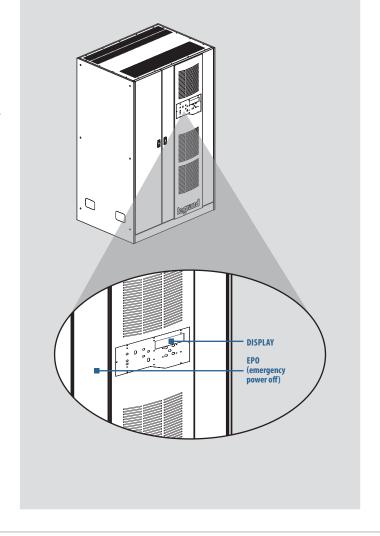
DESCRIPTION

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

Remote control panel



KEOR HP 200-250-300





KEOR HP 400-500-600-800

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



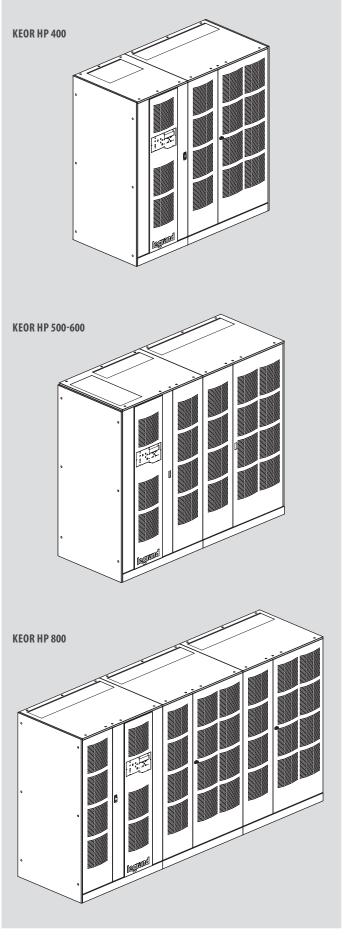
KEOR HP 400

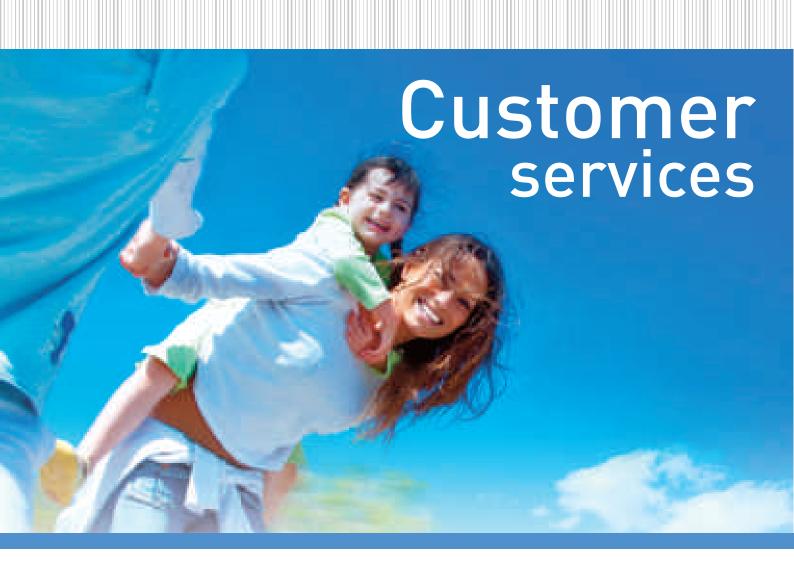
Pack	Model	UPS (without batteries)						
		NOMINAL POWER kVA	ACTIVE POWER kW	DIMENSIONS H x W x D (mm)	NET WEIGHT (KG)			
1	KEOR HP 400	400	360	1920 x 1990 x 950	1820			
1	KEOR HP 500	500	450	2020 x 2440 x 950	2220			
1	KEOR HP 600	600	540	2020 x 2440 x 950	2400			
1	KEOR HP 800	800	720	1920 x 3640 x 950	3600			

Pack **OPTIONS**

DESCRIPTION

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





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



SERVICES

Support

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 settingup of the UPS system before going live. They also perform site acceptance tests according to your requirements. Commissioning operations for KEOR HP 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.

Training

TRAINING

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.



Maintenance

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 KEOR HP, 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.

UPS



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