



MODULAR SCALABLE FLEXIBLE HIGH POWER UPS from 500 kW to 2.1 MW



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www.numericups.com

SUSTAINABILITY

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Corporate Social Responsibility

Green management and sustainable supply chain: these concepts are part of Legrand's Corporate Social Responsibility, which is the company's commitment to drawing up a strategy and implementing it with practical actions aimed at socially responsible behaviour towards everything around it, such as people, things and environment.

CSR involves the management of human resources, the organization and division of labour and the management of natural resources. CSR aims to assess the impact that the company's actions and decisions have internally, but also externally, on the stakeholders and the environment.

BUSINESS ECOSYSTEM

or how Legrand interacts ethically with the whole ecosystem of its activities.

PEOPLE

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or how Legrand engages with all of its employees and stakeholders.

ENVIRONMENT

or how Legrand intends to limit the Group's environmental impact.



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Circular economy

We are committed to creating a system that involves all stakeholders to share values, objectives and actions in order to control and reduce the environmental impact of all our economic and production processes, reduce waste and environmental impact and transform what would once have been defined as «waste» into new resources. Controlling these aspects has an impact on the entire life cycle of the product, starting from the design of new concepts and new specifications for the materials the UPS is made of; this is possible through responsible design and procurement processes (so-called «green procurement»), with a strong focus on research and the use of innovative materials from the circular economy and alternative raw materials. When a product ends its life, all these materials can become high value-added resources that can be used in other production cycles.

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Digitalization

New information technologies allow us to reduce the use of several paper documents in favor of the digital format: in this way the information is always and everywhere accessible from a PC or smartphone and at the same time we can avoid the felling of many trees.

Digitization also becomes an important driver of the circular economy, since it allows the use of tools for performance data analysis and preventive diagnostics, both useful for optimizing the life cycle and durability of the product.



Efficiency

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Our R&D team is constantly working on the development of increasingly efficient UPSs that allow high and incremental performance with minimum energy dissipation; with regard to CO_2 emissions, we are implementing processes and products that represent an improvement in the percentage of carbon footprint compared to the past. But efficiency is not only synonymous

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with high performance.

For us, efficiency also means ecodesign: this implies that the UPS is designed to be easily repaired, maintained and it's easy to separate its components.

This means increasing the durability of our UPSs and the possibility of reusing and recycling them at the end of their life.



L'EPD/PEP

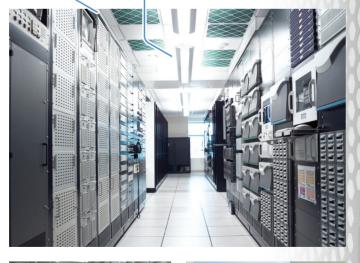
For each product family we draw up an EPD (Environmental Product Declaration) or PEP (Profil Environnemental Produit) in line with ISO 14025: it is a declaration that is a sort of environmental photograph of the product.

The EPD is drawn up according to the concept of Life Cycle Assessment: it examines the environmental impact of a product throughout its life cycle, from the development of product specifications to the choice of materials to be used and the end-of-life destination of the product itself.

Keor XPE

SCALABLE ARCHITECTURE

Keor XPE is a complete scalable UPS system based on 250 kW or 300 kW power units up to 2.1 MW. Each power unit with its individual logic control, can be combined with others to reach the needed power, or implement redundant configurations. Power expansion can be easily carried out at a later stage by installing additional power units. **Keor** XPE is the ideal solution for datacenter and large power critical applications (tertiary, hospital, industry, transport) where continuity of service, high quality power supply and reduced consumption are required.







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DX

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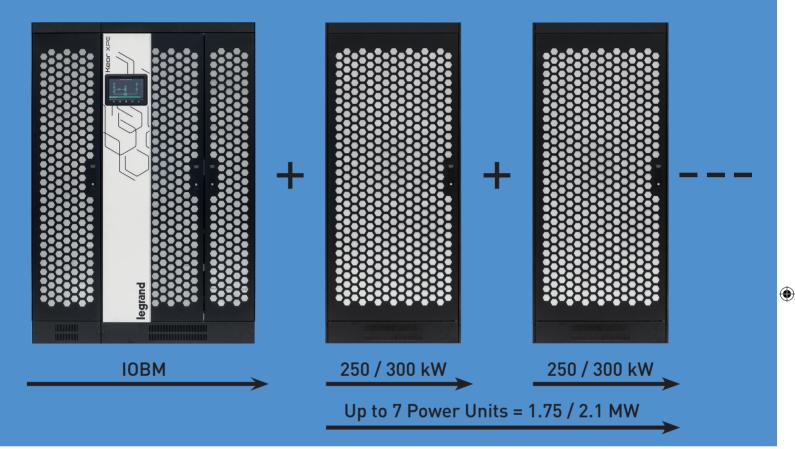
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KEOF XPE is a modular UPS system according to your power needs. Up to 7 power units can be added to the main bypass module (IOBM), each of 250 or 300 kW.

From 500 kW to 2.1 MW





Smart Display

The centralized 10" touch screen display, with intuitive and user friendly interface, allows to the user to fully monitor and control both the overall system and the single power units. The display also provides full diagnostics, systems logs and a wide set of advanced settings and fine tuning functions in 10 different languages.

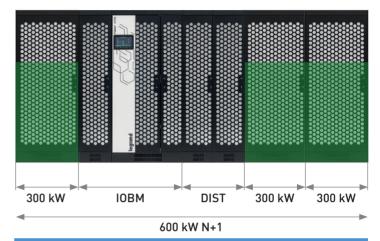
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Keor XPE

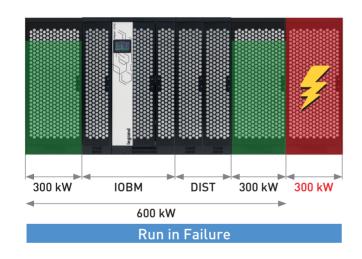
Redundancy and Hot Service

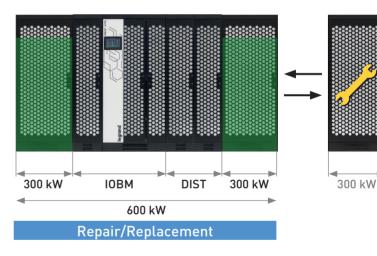
In case of redundant configurations, **Keor** XPE is hot serviceable for each of its components, as standard. As optional, the power units can be connected, removed or replaced while the rest of the system is continuously feeding and protecting the critical load.



Run in Redundancy

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High reliability and availability

The possibility to keep two independent **Keor XPE** in synchro allows to supply 2 independent and redundant lines in order to reach the highest availability level, typical of hyper critical datacenter.





Infrastructure integration

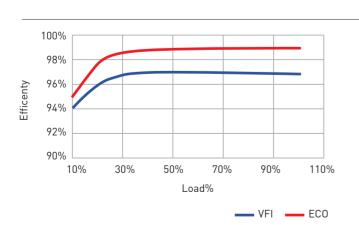
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The versatility of **Keor XPE** allows you to choose between different grounding systems, upper or lower input lines, cable or busbar connections, centralized or distributed batteries and much more. All of these features make **Keor XPE** exceptionally suitable and adaptable for integration into a wide range of infrastructures. **Keor XPE** can be perfectly integrated with the offer of the Legrand Group.



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High efficiency and low TCO

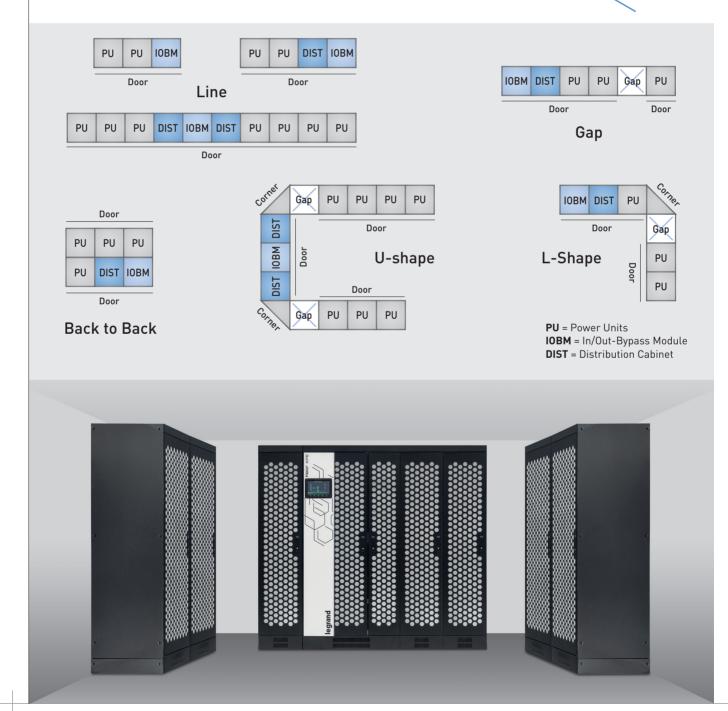
Keor XPE is specially designed to reduce losses and lower the management costs. Transformer free technology, 3 level converters, high efficiency even at low load level, combined with optimized ventilation and smart battery management ensure maximum protection at minimum consumption.

CONVENTIONAL UPS UPS

Keor XPE

Flexible design and physical layouts

Keor XPE meets your diverse business needs, either to grow or to revamp your mission-critical applications. In fact, the flexibility of **Keor** XPE permits the realization of different architectural layouts: in-line, back to back, L-shape, U shape. It is also possible to keep a gap between the different cabinets that are part of the system.

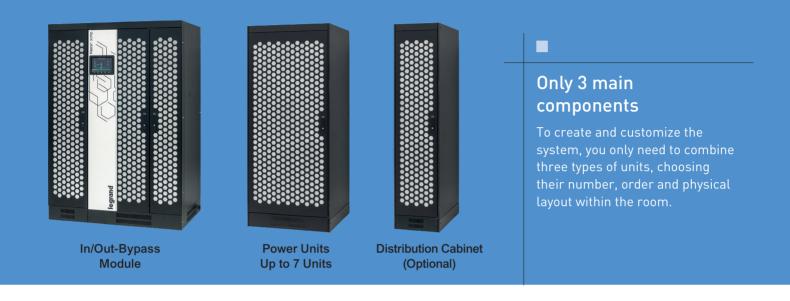


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Possible configurations

- TNC/TNS grounding system
- Dual/Single input

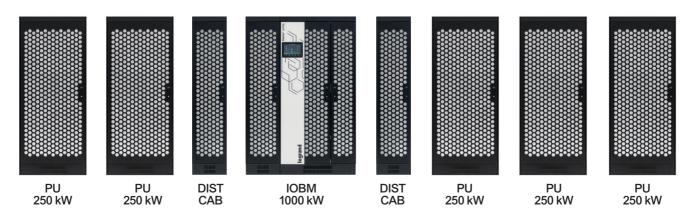
- Top/Bottom entry line
- Cable/Busbar connection
- Centralized/Distributed battery
- Lithium battery compatible
- Icw 50-100 kA short circuit capability
- Various layouts

Full communication interfaces

• USB-RS232

- ModBus 485 (optional accessory)
- SNMP net card (optional accessory)
- EPO contact
- Dry contacts port
- Backfeed contact
- External bypass contact
- External battery switch contact
- Genset friendly
- Battery temperature sensor

CONFIGURATION EXAMPLE: KEOR XPE 1 MW N+1 HOT SWAP



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Keor XPE 500 kW to 2.1 MW





In/Out-Bypass Module

Model

Power Units Distribution Cabinet Up to 7 Units

(Optional)

UPS XPE Components

Nominal power (kW)	Active power (kW)	Dimensions W x D x H (mm)			
250	250	880x979x2100			
300	300	880x979x2100			
600	600	1002×979×2100			
750	750	1450x979x2100			
1000	1000	1500x979x2100			
1500	1500	1850x1000x2100			
2100	2100	2300x1200x2100			
2 lines	300 kW	800x979x2100			
3 lines	300 kW	800x979x2100			
4 lines	300 kW	800x979x2100			
5 lines	300 kW	800x979x2100			
	power (kW) 250 300 600 750 1000 1500 2100 2 lines 3 lines 4 lines	power (kW) power (kW) 250 250 300 300 600 600 750 750 1000 1000 1500 1500			

* for hot scalability

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Optionals

Description Future Scalability Hot Scalability Input Line: Dual/Single Connection Entrance: Bottom/Top Connection Type: Cable/Busbar Grounding System: TNC/TNS Icw limitation kit Battery set: Centralized/Distributed Central or side IOBM Special distribution kits for customized Cabitets Layouts IP21 Kit

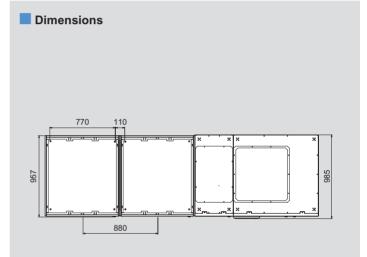
Accessories

Description **Battery Cabinets** Battery fuse switch box Synch box MODBUS RS485 card Net Interface Ethernet Cards

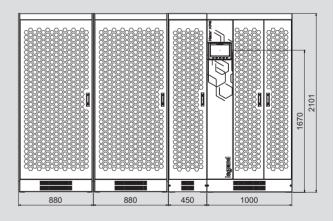
For configuration details and accessories, please contact Numeric.

Characteristics

- OnLine Double Conversion VFI SS 111 3Level IGBT Transformer Free
- Output Power Factor 1 without derating up to 40°C • in continuous operation
- Configurable internal redundancy (N+1 or N+N). • Hot maintainable modules (VFI)
- Hot Scalability (optional)
 Up to 97% VFI efficiency even at low power
- ECO mode up to 99% efficiency.
- Embedded BackFeed Protection
- · Automatic battery test function.
- . Genset compatibility with adaptive Ramp-In
- . Compact footprint.
- Low audible noise.
- Synch 2N



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Keor XPE 500 kW -to 2.1 MW

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Scalable UPS - Online three-phase double conversion VFI

General specifications	IOBM 600	IOBM 600	IOBM 750	IOBM 900	IOBM 1000	IOBM 1200	IOBM 125	0 IOBM 1500	IOBM 1800	IOBM 210		
Nominal Power = Active Power (kW)	500	600	750	900	1000	1200	1250	1500	1800	2100		
Power Unit power (kW)	250	300	250	300	250	300	250	300	300	300		
Number of Power Units (+1 if Redundant)	2+1	2+1	3+1	3+1	4+1	4+1	5+1	5+1	6+1	7		
Technology	2.1	2.1	0.1		double con			0.1	0.1			
Architecture	Decentra	alized Logi	- Centraliz					Hot Service	(Hot Plug	Ontional)		
nput	Decentra	ilizeu Logi			Jypass, 50		aunuant, i		(HOLT TUG	optional)		
•		-	1001/22.0		-tifier) 000		las Quebe					
Input Voltage			400 vac 3-		/'			se (Bypass)			
Input Frequency)/60 Hz; rar	0						
Input Voltage Range (Ph-Ph)				-20%, +	15% (rectifi		(bypass)					
THD of input current					< 3							
Compatibility with Diesel Generators					Ye	es			-			
Input power factor					> 0	.99						
Output												
Output Voltage				380), 400, 415\	/ (3Ph+N+	PE)					
Efficiency Online		up to 96.4%										
Efficiency in GREEN mode		up to 99%										
Output frequency (nominal)				50 /60 H	z (Adjustab	le from fro	nt panel)					
Output frequency tolerance		50 /60 Hz (Adjustable from front panel) ±0,1%Synch with Mains; ±0,01% Free Run										
Crest Factor					up to							
THD of output voltage					< 1% at full		4					
Output power factor					g to 0.5 lag			 n				
Output voltage Regulation VFI					; Dynamic (
Overload Capability			0		25% for 5 r							
				inventer. i	237010131	1111, 15070	101 30 360	' '				
Bypass			Sto	tio Automo	tio no brook	Manual P		ional				
Type			518		tic no break			Ionai				
Input Voltage	380-400-415V ± 20%; (3Ph+N+PE)											
Input Frequency	705	070	1000	4004	50-60Hz		1010	0.175				
Nominal Current (A)										3044		
Max Icw				50 kA as p	er IEC 6204	i0-1 (100 k/	A Optional)				
DC Characteristics												
Battery/Storage Compatibility					VRLA, Ni	Cd, Li-Ion						
Battery Connection				Di	stribuited o	r Centraliz	ed					
Communication and management												
Control Panel Display	10" Touch screen, 1024x600 pixels											
Communication ports	Serial F	S232 and	USB; Mod	Bus-RTU	(RS485). N	et Card Slo	ot (SNMP	& ModBus-	TCP/IP) (O	ptional)		
Input signal ports and aux.contact.	Remote emergency power off (REPO), diesel mode, Temperature Probe, battery circuit breaker. Auxiliary contact of external circuit breakers: battery, external maintenance bypass, output remote transfer to bypass mode											
Output signal ports				5 dry o	contacts, ex	ternal Bac	kFeed					
Physical characteristics												
Connection Lines	Hardwired 3PH TNC or TNS Output, rectifier and bypass (single input as optional)											
Cennection Entrance and Type	Bottom (top as optional), cable (busbars as optional)											
Transport Packaging	"Carton Boxes on Pallets. SeaBag and Woden Box (Optional) "											
Color	RAL9003 (White) on Front Door of IOBM; RAL 9005 (Black) Body and Side panels all cabinets											
UPS dimensions WxDxH (mm)*		70x2100		70x2100	2100	2100	6250X5)80x2100	2100	2100		
UPS weight (kg)*	22	.50	3150	3300	4000	4250	4900	5200	6400	7300		
Environmental conditions	1							-				
Operating Temperature (°C)	0 - 40 °C (Recommended temperature for longer Battery Life: 20-25°C)											
Relative Humidity Range	20-95% (Non-Condensing)											
Protection degree		IP20 (IP21 Optional)										
Acoustic Noise at 1m (dBA)					< (65						
Estimated content of circular economy derived materials%)	≈ 20%											
Recyclability rate calculated using the method described in technical report IEC/TR 62635 (%)**	≃ 60%											
Compliance												

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* The weights and dimensions depend on the chosen configuration and refer to the complete basic system (no redundant, no hot-scalable). Variance ± 1% ** This value is based on data collected from a technological channel operating on an industrial basis. It does not pre-validate the effective use of this channel for end-of-life of this product.

Customer services

Reliable

Directly present in 250+ locations across India to ensure quick support, a team of 900 factory qualified engineers are available 24/7/365 to support your UPS system to ensure availability to the most critical loads.

Excellent

Numeric competitive edge lies in its ability to provide high valueadded UPS systems and service for customers.

For Numeric, creating value means providing solutions with low energy consumption. The Legrand Group also provides all products required for electrical and digital building installations, particularly as an integrated system, with solution to fit customer needs.

Tailor-made

We offer a complete range of specific solutions and services to meet customer requirements:

- Technical pre-sales support
- UPS sizing and solution
- Supervision of installation, testing and commissioning.Operator training
- Site audits
- Site audits
- Warranty extension offers
- Annual maintenance contract



SERVICES

Today a business is in always ON mode with zero-tolerance for downtime. Numeric offers a wide range of products that promise seamless quality power solutions for all kinds of consumers – industrial, commercial and residential. The range of power solutions covers 3P, 2P and LI across power needs.



Support

SITE INSPECTION, INSTALLATION SUPERVISION.

Numeric UPS' safe and fault-free operations start at the time of installation. A team of technical experts from Numeric visit the UPS site to perform a comprehensive check of the environment. The site engineer or electrical contractor is informed of their recommendations. The installation is supervised by the Numeric technical team.

SITE TEST, COMMISSIONING.

After the installations, the UPS is subjected to rigorous site tests. The UPS is configured according to user's requirements and completely set-up before going live. After successful testing, the UPS is handed over with the installation report.



Training

TRAINING

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On-site training is made available to ensure the safe and efficient operation of the equipment. Hands-on training for the client's engineers and technical team can be arranged at Numeric's plants



Maintenance

PREVENTIVE MAINTENANCE

Optimal performance of the UPS require regular preventive maintenance operations, with parts replaced when needed. Numeric offers Service Contracts with Preventive Maintenance that include cleaning, UPS measurements, functional tests, technical reports (optional), battery health check up and software upgrades. **CORRECTIVE MAINTENANCE, EMERGENCY CALL** Engineers and spare parts stocks have been strategically located to handle emergencies. A powerful diagnostic software helps engineers

identify the fault quickly and ensure short MTTR (Mean Time To Repair). The diagnosis further helps corrective actions such as part replacement, adjustments to be performed and return the UPS system back to normal.

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