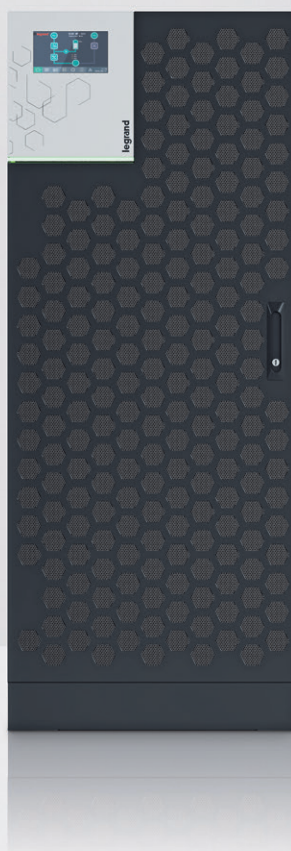
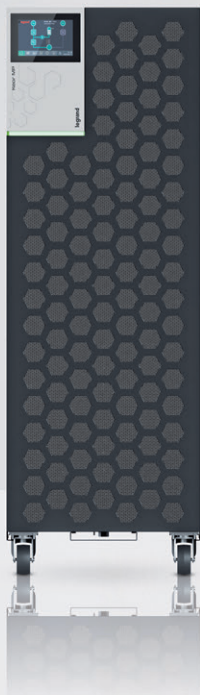




Keor MP

THREE-PHASE UPS
10 - 200 kVA



#legrandImprovingLives



SUSTAINABILITY

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 organisation 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

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

ENVIRONMENT

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



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.



DIGITALISATION

Many of our documents are now available in a digital format to view on a PC or smartphone, not only making them always accessible but also reducing the amount of paper we use.

Digitalisation 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 optimising the life cycle and durability of the product.

EFFICIENCY

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 CO₂ 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 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.



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.

UPservice contains the full documentation of UPS products in digital format. This tool allows to reduce the use of paper documents in favour of the digital format for the benefit of a lower environmental impact. Visit our website **ups.legrand.com** to download the app.

UPS

SUPPORTED BY
UPSERVICE

Keor MP

ENGINEERED ARO COMPACT INTEGR

**10-80
kVA**



INTERNAL BATTERY CONFIGURATION

UND ATION

Keor MP is a compact and space-efficient three-phase **UPS platform**, engineered to simplify installation, operation, and maintenance while ensuring reliable power continuity for modern critical infrastructure.

**60-200
kVA**



Keor MP



ENGINEERED FOR EASY INSTALLATION

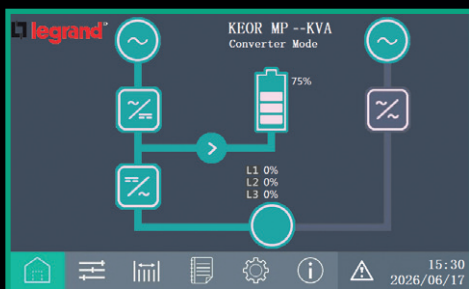
- Easy installation guaranteed by front access to all wiring connections.
- Availability of standard configurations with batteries inside the UPS.
- Designed to easily connect an additional battery cabinet to obtain long back-up time.
- Standard internal backfeed protection which provides easy installation without additional cost in UPS supply switchboard.

REDUCTION OF TOTAL COST OWNERSHIP (TCO)



Thanks to its design features and the high level of efficiency (up to 96%), there is a reduction of TCO, even from the installation phase; the key factors that allow you to gain these advantages are:

- Transformerless Design- High Efficiency
- Reduced dimensions and power use for air conditioning
- Low Output Total Harmonic Distortion (THDV).



MULTICOLOR INTUITIVE TOUCHSCREEN DISPLAY

The Keor MP features a user-friendly touchscreen display with graphical representations of system

status and performance, ensuring instant visibility and seamless monitoring and control.

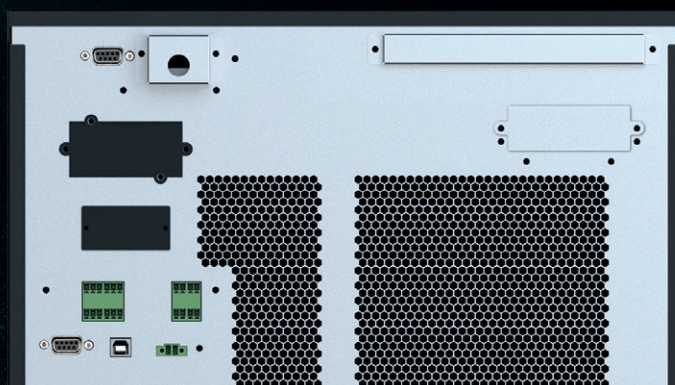
Users can access real-time status indications, configure settings, and respond to alerts with ease.

PARALLEL SCALABILITY AND REDUNDANCY

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



Keor MP allows N+X redundancy up to six UPSs in parallel operation and is scalable up to 1.2MW, effectively reducing the risk of downtime. The Load Bus Synchronization (LBS) allows the UPS to be connected with two different sources.



Communication features:

- Standard RS232
- ModBus
- Programmable dry contacts
- EPO & GenSet and Remote Monitoring Panel
- USB Converter (optional)
- Internal SNMP solutions (optional)

Keor MP

10-80 kVA Internal battery configuration

FEATURES

- Wheels for effortless movement
- Compact and space- saving design
- Internal batteries up to 120 blocks
- External battery cabinets for extended autonomy
- Efficiency up to 96%
- PF=1
- 5-inch touch screen display (10-40kVA) and 7-inch touch screen display (60-80kVA)



COLD START FUNCTION

- Enables UPS startup without utility input
- Supports emergency power availability
- Improves operational flexibility

REGENERATIVE LOAD COMPATIBILITY

Capable of absorbing regenerative energy, minimizing impact on upstream systems and improving energy efficiency



Safe and fast battery installation

The Battery drawers system allows:

- safe physical transport of battery and fast mounting on site
- safe and easy connection of individual battery strings outside of the cabinet
- lower UPS downtime for battery replacement

60-200 kVA

FEATURES

- Compact and space-saving design
- Power factor 1
- 7-inch touch screen display
- Efficiency up to 96%
- Module-Based Architecture for Low MTTR and High MTBF
- VRLA and Lion battery compatibility
- Dry Contact port for Signaling & Alerts
- Wide Communication Options



SELF-LOADING FEATURE

The self-loading feature allows for on-site testing of UPS before connecting it to the load.

COMMON BATTERY BANK

Keor MP features a common battery bank that can be shared between two units, optimizing resource utilization, and providing enhanced flexibility in configuring reliable power backup solutions tailored to diverse operational requirements.



Keor MP 10 – 80 kVA

Three- Phase UPS



Characteristics

- Power factor correction PFC (input PF>0,99)
- User friendly 5" and 7" touch screen display
- Wide input voltage range and frequency
- Dual Input
- Cold Start
- Backfeed contact for external Protection
- Parallel Operation up to 4 units
- Wide configurations of Internal Batteries embedded
- VRLA (3Wire) 40 blocks
- Overload & short circuit protection
- Powerful Built-in Charger up to 12 and 18A
- Embedded RS232, RS485, SNMPslot, parallel port, dry contact
- Wheels for easy movement

UPS				
Item	Power (kW)	Description	Standard Autonomy (min)	CoC Eu 100% Load PF0,8
3 114 25	10	Keor MP 10KVA - 0	0	0
3 114 26	10	Keor MP 10KVA - 1	18	14
3 114 27	10	Keor MP 10KVA - 2	50	32
3 114 28	10	Keor MP 10KVA - 3	71	57
3 114 29	15	Keor MP 15KVA - 0	0	0
3 114 30	15	Keor MP 15KVA - 1	10	7
3 114 31	15	Keor MP 15KVA - 2	26	19
3 114 32	15	Keor MP 15KVA - 3	50	33
3 114 33	20	Keor MP 20KVA - 0	0	0
3 114 34	20	Keor MP 20KVA - 1	6	4
3 114 35	20	Keor MP 20KVA - 2	19	14
3 114 36	20	Keor MP 20KVA - 3	30	23
3 114 37	30	Keor MP 30kVA - 0	0	0
3 114 38	30	Keor MP 30kVA - 1	11	7
3 114 39	30	Keor MP 30kVA - 2	19	14
3 114 40	40	Keor MP 40kVA - 0	0	0
3 114 41	40	Keor MP 40kVA - 1	9	8
3 114 42	40	Keor MP 40kVA - 2	12	13
3 114 43	60	Keor MP 60KVA - 0	0	0
3 114 44	60	Keor MP 60KVA - 1	10	8
3 114 45	60	Keor MP 60KVA - 2	15	12
3 114 46	80	Keor MP 80KVA - 0	0	0
3 114 47	80	Keor MP 80KVA - 1	10	8

Battery Cabinets			
Item	Power (kW)	Description	No. String
3 114 48	10-20kVA	Keor MP Batt Cabinet 10-20kVA Empty	0
3 114 49	40-30 KVA	Keor MP Batt Cabinet 30-40kVA Empty	0
3 114 50	10-20kVA	Keor MP Batt Cabinet 10-20kVA-1	1
3 114 51	10-20kVA	Keor MP Batt Cabinet 10-20kVA-2	2
3 114 52	30 KVA	Keor MP Batt Cabinet 30kVA	2
3 114 53	40 KVA	Keor MP Batt Cabinet 40kVA	2

Accessories	
Item	
3 115 45	Signal card
3 114 54	Temp probe for models 10-40kVA
3 115 46	Temp probe for models 60-80kVA
3 115 47	Regenerative energy box for models 10-40kVA
3 115 48	Regenerative energy box for models 60-80kVA

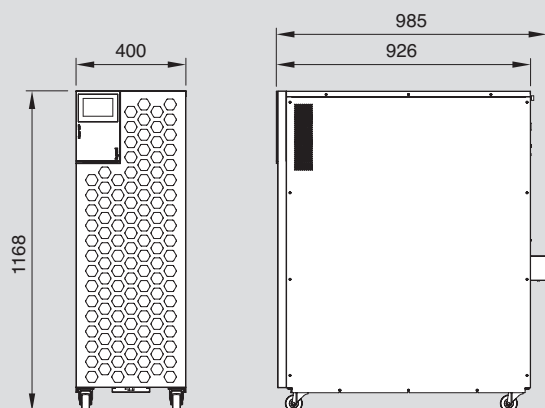
NOTE: the stated back-up times in minutes are estimated and may vary according to the load characteristics, operating conditions and environment.

Keor MP 10 – 80 kVA

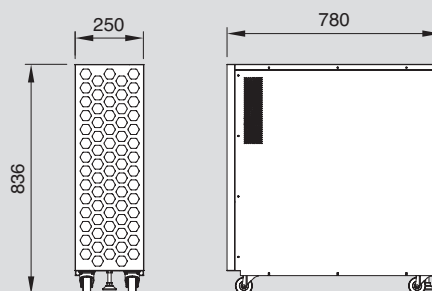
Three- Phase UPS

Characteristics

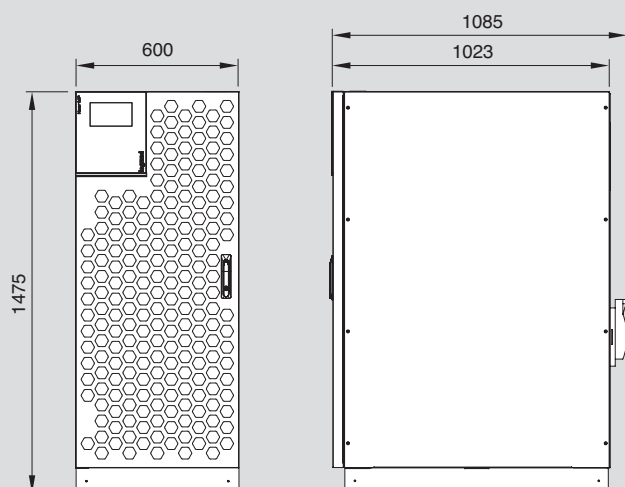
Keor MP 10-40



Battery Cabinet



Keor MP 60-80



Keor MP 10 – 80 kVA

Three- Phase UPS

Long autonomy configuration

Power (kVA)	Standard Autonomy (min) CoC EU	Item	Description	Quantity
10	78	3 114 28	Keor MP 10KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
10	100	3 114 28	Keor MP10KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	1
10	119	3 114 28	Keor MP 10KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	1
10	149	3 114 28	Keor MP 10KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	2
10	171	3 114 28	Keor MP10KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	2
10	196	3 114 28	Keor MP 10KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	3
15	53	3 114 32	Keor MP 15KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
15	60	3 114 32	Keor MP 15KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	1
15	78	3 114 32	Keor MP 15KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	1
15	90	3 114 32	Keor MP 15KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	2
15	107	3 114 32	Keor MP 15KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	2
15	119	3 114 32	Keor MP 15KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	3
20	33	3 114 36	Keor MP 20KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
20	51	3 114 36	Keor MP 20KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	1
20	57	3 114 36	Keor MP 20KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	1
20	65	3 114 36	Keor MP 20KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	2
20	78	3 114 36	Keor MP 20KVA - 3	1
		3 114 50	Keor MP BATT CABINET 10-20kVA-1	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	2
20	88	3 114 36	Keor MP 20KVA - 3	1
		3 114 51	Keor MP BATT CABINET 10-20kVA-2	3
30	26	3 114 39	Keor MP 30kVA - 2	1
		3 114 52	Keor MP BATT CABINET 30kVA	1
30	46	3 114 39	Keor MP 30kVA - 2	1
		3 114 52	Keor MP BATT CABINET 30kVA	2
30	57	3 114 39	Keor MP 30kVA - 2	1
		3 114 52	Keor MP BATT CABINET 30kVA	3
40	26	3 114 42	Keor MP 40kVA - 2	1
		3 114 53	Keor MP BATT CABINET 40kVA	1
40	38	3 114 42	Keor MP 40kVA - 2	1
		3 114 53	Keor MP BATT CABINET 40kVA	2
40	51	3 114 42	Keor MP 40kVA - 2	1
		3 114 53	Keor MP BATT CABINET 40kVA	3

Keor MP 10 – 80 kVA

Three- Phase UPS

Characteristics

General specifications	3 114 25	3 114 29	3 114 33	3 114 37	3 114 40	3 114 43	3 114 46
	3 114 26	3 114 30	3 114 34	3 114 38	3 114 41	3 114 44	3 114 47
	3 114 27	3 114 31	3 114 35	3 114 39	3 114 42	3 114 45	
	3 114 28	3 114 32	3 114 36				
Nominal Power [kVA]	10	15	20	30	40	60	80
Active power (kW)	10	15	20	30	40	60	80
Technology	On-Line Double Conversion VFI SS 111						
Waveform	Sinusoidal						
UPS architecture	Monolithic, Transformer Free						
Parallel	Yes, up to 4 units						
Input specifications							
Input voltage [V]	380-400-415V 3PH+N						
Input Voltage Range	+15% -20%						
Input frequency [Hz]	50/60 Hz						
Input frequency tolerance [Hz]	(40-70)Hz						
THD Input current [%]	<4	<2			<3	<4	
Input power factor	0,99						
Output specifications							
Output voltage [V]	380-400-415V 3PH+N						
Output frequency (nominal)	±0.1% Free Run						
Crest Factor	up to 3:1						
THD Output voltage	<2% Linear Load						
Output Voltage Tolerance	±1%						
Bypass	Static Automatic and Manual						
Overload capacity	in VFI mode						
@125% Load	10 min						
@150% Load	1 min						
Efficiency (AC-AC) [%]	up to 95%					up to 96%	
ECO Mode efficiency [%]	98%						
Batteries							
Battery Type VRLA	VRLA 12V-9Ah						
DC Battery Voltage	480						
Internal batteries	Yes, Up to 120					Yes, Up to 160	
Recharge Current [A]	12					18	
Backup time expansion	Yes, with dedicated external battery cabinet						
Communication and management							
Display	Touch Screen 5"	Touch Screen 5"	Touch Screen 5"	Touch Screen 5"	Touch Screen 5"	Touch Screen 7"	Touch Screen 7"
Communication Ports	Multiple communication interface: USB, RS232, RS485, Parallel port, Drycontact, Intelligent slot, (Optional: SNMP card, Relay card)						
Auxiliary signal	EPO, Temperature probe input , Genset, Ext Bypass, Ext Batt Connection						
Distribution switches	Input, Output, Manual Bypass, Battery (fuse holder)						
Mechanical characteristics							
UPS Measurements WxHxD [mm]	400 x 1168 x 985					600 x 1475 x 1023	
UPS Net Weight without batteries [kg]	94	126		225		441	
Battery Cabinet Measurements WxHxD [mm]	250 x 836 x 780					-	
Battery Cabinet Net Weight without batteries [kg]	47.7	47.7	47.7	47.7	47.7	-	
Colour	White and Black						
Wheels	Yes						
Packaging	Carton Box on Pallet						
Ambient conditions							
Operating Temperature [°C]	0 - 40°C						
Operating Humidity	IP20						
Relative humidity [%]	0-95% (Not Condensing)						
Noise level at 1 m [dBA]	<65dBA			30-40KVA: <68dBA		60-80KVA: <75dBA	
Maximum Heat Loss [BTU/h]	2054	3695		8284		14535	
Maximum Altitude without derating [m above the sea level]	1000						
Conformity							
Safety	IEC 62040-1						
EMC	IEC 62040-2						
Performance	IEC 62040-3						

Keor MP 60 – 200 kVA

Three- Phase UPS



Characteristics

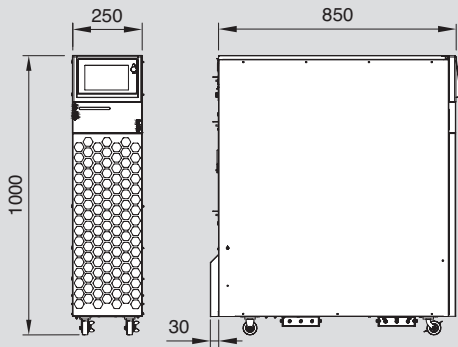
- Power factor correction PFC (input PF>0,99)
- User friendly 7" touch screen display
- Wide input voltage range and frequency
- Dual Input
- Cold Start
- Embedded Backfeed Protection
- Genset port
- Parallel Operation up to 6 units
- VRLA (3Wire) 20 blocks and 40 blocks (only external batteries)
- Common battery connection
- Li-Ion (TP100, TP120)
- Overload & short circuit protection
- Powerful Built-in Charger 20-40-60A
- Advanced battery management (ABM)
- Embedded RS232, RS485, SNMPSlot, parallel port, dry contact
- Wheels for easy movement

Item	UPS		
	Power (kW)		Description
3 112 35	60		Keor MP 60
3 112 37	80		Keor MP 80
3 112 39	100		Keor MP 100
3 112 40	120		Keor MP 120
3 112 41	160		Keor MP 160
3 112 42	200		Keor MP 200

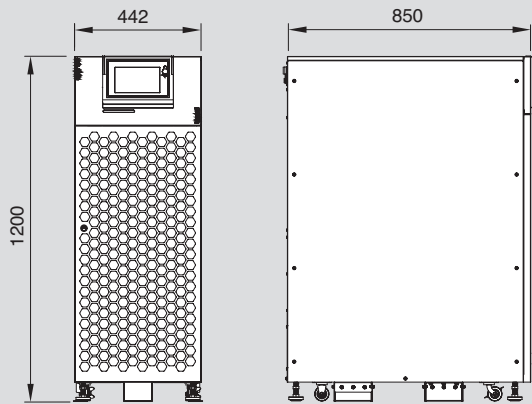
Item	Accessories
3 112 51	SNMP card
3 112 52	Additional dry contact card
3 112 53	Load bus sync and battery sensor cable
3 112 54	Gsm modem
3 112 44	Battery temperature sensor
3 112 45	Remote alarm panel
3 112 46	External kit repo

Characteristics

Keor MP 60



Keor MP 80-200



Keor MP 60 – 200 kVA

Three- Phase UPS

Characteristics

General specifications		3 112 35	3 112 37	3 112 39	3 112 40	3 112 41	3 112 42
Nominal Power [kVA]		60	80	100	120	160	200
Active power (kW)		60	80	100	120	160	200
Possible Classification		True Online Double Conversion, VFI - SS - 111					
Possible configuration		3 phase + N + PE					
Specifications		UPS with fault tolerance					
Input specifications							
Input voltage		380-400-415 VAC					
Input voltage range		310~480 VAC at full load					
Input frequency		50 / 60 Hz (40 to 70 Hz)					
Input phases		3 phase + N + PE					
Input THDi (at rated linear load)		< 3%					
Input power factor		0.99					
Output specifications							
Nominal Output voltage		380/400/415 VAC					
Output Voltage Regulation		±1 (Balanced Load)					
Output Power Factor		1					
Output frequency		50/60 Hz					
Crest Factor		3:1					
Output Voltage THD		<2% for Linear Load & < 4% for Non Linear load					
Efficiency at rated load		Up to 96%					
Efficiency on Eco mode		Up to 99%					
Permitted overload on mains (PF=1)*		≤110% @ 30 mins, ≤125% @ 10min, ≤150% @ 1min					
Bypass		Inbuilt Static & Maintenance Bypass					
Communication and management							
Cabinet displays		7" Touch screen color display cabinet and Multicolor status indicator (green/yellow/red)					
Communication ports		MODBUS RS485/RS232//USB/Ethernet/SNMP, & Dry Contacts (optional)					
Cold start		Yes					
Maximum number of parallel chassis		Max 6 cabinets					
EPO		Yes					
Alarm & Signals		Configurable acoustic alarms and signals					
Temperature Sensor		Yes, optional					
Safety and Protection		Overload, Short circuit, Back feed port available (external connectional optional) all MCCBs, Over & Low voltage, Fast acting fuses					
Batteries							
Internal batteries		No, external batteries only					
Battery type/range voltage		VRLA, Ni Cd & Li-ion					
Nominal Battery Voltage		432 VDC~600 VDC					
Charging mode		3 stage advanced cycle					
Mechanical characteristics							
Overall Net weight (Kgs)		110	140	160	170	205	220
Frame Dimensions (W X D X H) in mm		250 x 850 x 1000	442 x 850 x 1200				
Ingress Protection		IP20					
Color Shade		RAL 9005+9003					
Cable entry		60-160 kVA rear bottom entry, 200 kVA front & rear bottom entry					
Ambient conditions							
Operating Temperature [°C]		0 - 40°C					
Operating Humidity		20% - 95% non- condensing					
Operating Altitude		Up to 1000 m above sea level without derating					
Storage Temperature		20 - 55 °C					
Maximum noise audible at 1m [dBA]		58	60	62	62	63	66
Conformity							
Safety		IEC 62040-1					
EMC		IEC 62040-2					
Performance		IEC 62040-3					
Environmental		IEC 62040-4					
Declarations		RoHS / REACH					

CUSTOMER SERVICES



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 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

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, FACTORY 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 Test (SAT) and Factory Acceptance Test (FAT) 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.

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 UPS, very powerful diagnostic software helps our engineer to identify the fault, thus ensuring short MTTR (Mean Time To Repair).

Corrective actions are performed such as part replacement, adjustments and upgrades to return the UPS system back to normal operation.

NOTES

[illegible]



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