KEOR HPE
UPS

3 PHASE
UPS
from 30 to 500 kW

NUMERIC®
A Group brand | legrand

POWER PARTNER

IN BUSINESS CONTINUITY

- 3 decades of experience in UPS industry
- Among top 3 UPS companies in India
- Installation base of >1million UPS systems*
- 254 service centers & 44 sales offices pan India
- 5 world class manufacturing units

With an experience of over 3 decades in the UPS industry, Numeric has envisioned and relentlessly strived to offer reliable power quality solutions to its customers. Numeric is among the top 3 UPS Companies in India. With solutions from supporting a desktop PC to a large MW range mission critical power requirement, we have been serving thousands of satisfied customers across various market segments in India. Our customers include leading organizations from various market segments such as IT, Healthcare, Banking, Education & Research, Telecom, Industries, Government, etc. Our installation base, over the last decade, is more than 1 million active UPS's across market segments.

With 5 world class manufacturing units located in Chennai and Sinnar, we are poised to meet the diversified needs of our customers. We provide 24/7 customer support through a wide and robust service and support system, which provides power continuity uptime and productivity to our customer's businesses. Our network of 254 service centers and 44 sales offices is the largest UPS service support network in India. More than 900 factory-trained service professionals are stationed in those locations to maintain UPS uptime.

Numeric has been a part of the Legrand group since the 2012.

Legrand, a global specialist in Electrical and Digital building infrastructure is a 5B€ organization operating across 180 countries.

Today, Numeric provides complete solutions in UPS across Line Interactive, 1 Phase, 3 Phase and Modular UPS's. Global expertise and local knowledge make us a truly GLOCAL company.

*over one decade.

KEOR HPE

THE UPS WITH POWER UP TO 500kW

KEOR HPE

3 PHASE UPS
HIGH EFFICIENCY AND LOW TCO

KEOR HPE is designed to reduce TCO.
High efficiency double conversion, Transformer-free architecture and Internal battery option reduces 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 unity power factor design. 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.

Input phase auto correction

UPS rectifier is designed to operate in mains even during the mains input phase reversal, avoid discharge of batteries, which increases life cycle of the batteries.

Backfeed protection

Backfeed energy detection circuit, as option for total upstream protection and operator safety.

Internal battery

60 and 80 kW models can allow to obtain backup time up to 12 minutes.

COMPACT SIZE AND ONE CABINET FOR 60 TO 160 kW CONFIGURATIONS

KEOR HPE

FRONT-ACCESS INSTALLATION AND MAINTENANCE

The KEOR HPE UPS is designed to be installed and maintained completely from the front. All circuit breakers and communication 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.

Communication ports

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

Internal front access

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 HPE

OPTIMIZED BATTERY MANAGEMENT

Protecting capital expenditure on batteries, 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 to extend battery operating life and to achieve maximum energy savings.

Easy access to the optional internal batteries

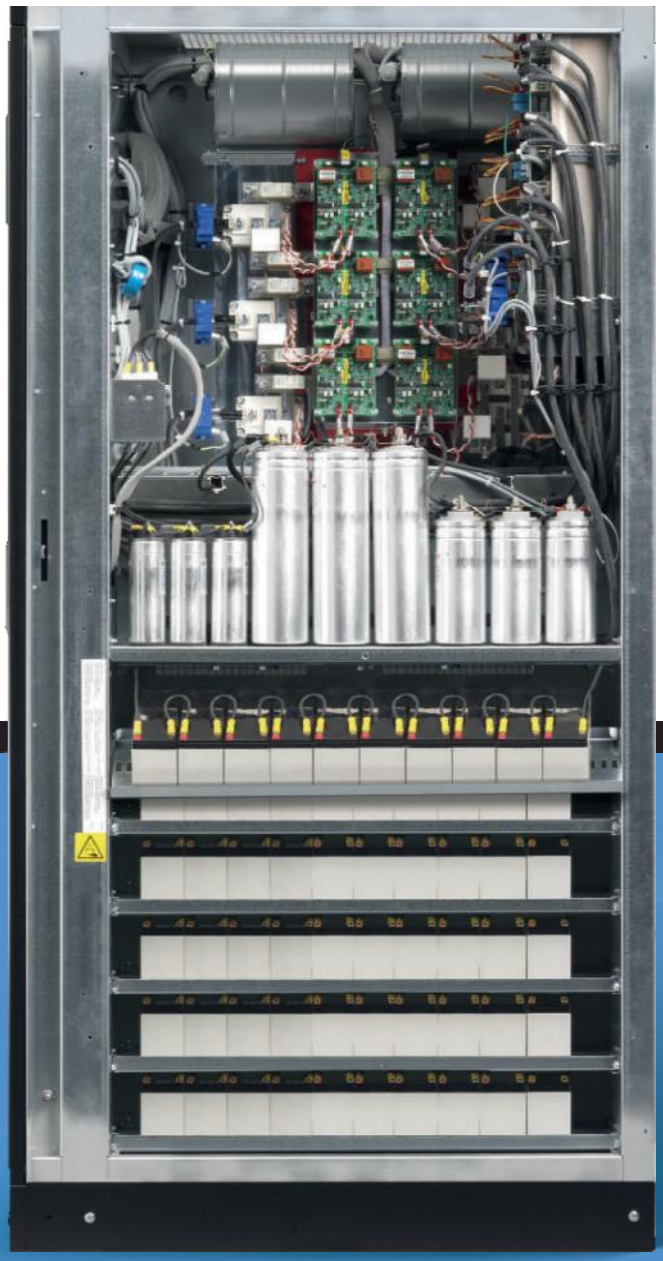
Access to the battery is on the side, the trays can be extracted and inclined to facilitate the connection and substitution.

Automatic setting of battery charging current with DCM function

With feeding priority to output loads, ensuring low charging times for long autonomy applications.

Battery charging voltage temperature compensation

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



Automatic and manual battery test

To detect any battery performance deterioration.

KEOR HPE

INNOVATIVE OPERATING MODE

Set the best mode of operation for any application according to mains quality, load immunity grade to mains disturbances and system features, to always deliver the best reliable quality power at the highest efficiency.

On-line double conversion

VFI (Voltage Frequency Independent) double conversion total protection with up to 96% efficiency thanks to our Green Conversion patented technology.

Smart ECO mode

suitable for stable mains, in VFD (Voltage Frequency Dependent) mode of operation, achieving 98% efficiency.

Cold Start

Designed to start the UPS on battery mode when mains not available as an optional feature

KEOR HPE 30-40-60-80-100-125-160-200-250-300-400-500

Conventional UPS - 3 Phase On-line double conversion VFI

UPS (without batteries)

Pack	Cat.Nos.	Nominal power kVA	Weight (kg)	Dimensions W x D x H (mm)
1	7206721	30 kVA	120	460x650x1230
1	7206722	40 kVA	140	460x650x1230
1	7206701	60 kVA	250	560x940x1800
1	7206702	80 kVA	300	560x940x1800
1	7206703	100 kVA	320	560x940x1800
1	7208704	125 kVA	360	560x940x1800
1	7208705	160 kVA	380	560x940x1800
1	7208706	200 kVA	720	850x900x1975
1	7208707	250 kVA	800	850x900x1975
1	7208708	300 kVA	900	850x900x1975
1	7208709	400 kVA	1000	1450x970x1980
1	7208710	500 kVA	1200	1450x970x1980

Empty battery cabinet for estimated backup time of appx 15 min

		Nominal power kVA	Dimensions W x D x H (mm)
2	7218 804	60 kVA	770 x 450 x 1300
2	7218 805	80 kVA	1150 x 370 x 1900
2	7218 806	100 kVA	1150 x 425 x 1900
2	7218 806	125 kVA	1150 x 425 x 1900
2	7218 807	160 kVA	1180 x 460 x 1900
4	7218 806	200 kVA	1150 x 425 x 1900
2	7218 809	250 kVA	1375 x 575 x 1900
4	7218 808	300 kVA	1340 x 470 x 1900

Empty battery cabinet for estimated backup time of appx 30 min

		Nominal power kVA	Dimensions W x D x H (mm)
2	7218805	60kVA	1150x370x1900
2	7218807	80kVA	1180x460x1900
2	7218807	100kVA	1180x460x1900
2	7218809	125kVA	1240x575x1900
4	7218807	160kVA	1180x460x1900
5	7218806	200kVA	1150x425x1900
4	7218809	250kVA	1375x575x1900
4	7218809	300kVA	1375x575x1900

Note: Battery disconnector will be external & not part of battery cabinet
General Tolerance for dimension ± 2 mm

Communication accessories

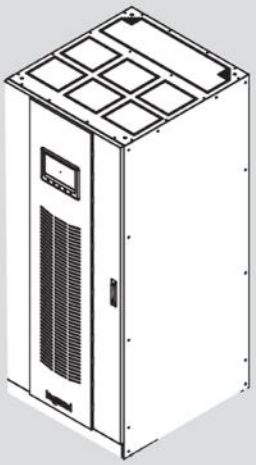
		Description
1	7218631	CS 141 SK Professional (SNMP only)
1	7218632	CS 141 B SK Standard (SNMP with sensor)
1	7218633	CS 141 M SK Industrial (SNMP with MODBUS)

Options

Description
Serial interface RS-485 ModBus
Parallel card interface KIT
Load-sync card interface kit
Built-in Isolation transformer
Wall mounted fused switch box
Built - in battery for 60 & 80 kVA - backup < 12 min

KEOR HPE 60-80-100-125-160

KEOR HPE 200-250-300



KEOR HPE 30-40-60-80-100-125-160-200-250-300-400-500

Conventional UPS - 3 Phase On-line double conversion VFI

Characteristics

General characteristics	30	40	60	80	100	125	160	200	250	300	400	500
Nominal power (kVA)	30	40	60	80	100	125	160	200	250	300	400	500
Active power (kW)	30	40	60	80	100	125	160	200	250	300	400	500
Technology	On-line double conversion VFI-SS-111											
Waveform	Sinusoidal											
Architecture	Conventional UPS, parallelable up to 6 units											
Input characteristics												
Input voltage	380-400-415 V 3Ph+N											
Input frequency	50-60 Hz (45 ÷65Hz)											
Input voltage range	400 V -20% / + 15%											
THD of input current	< 3%											
Input power factor	> 0.99											
Output characteristics												
Output voltage	380, 400, 415 V 3Ph+N selected											
Efficiency	up to 96%											
Output frequency (nominal)	50 /60 Hz											
C rest factor	3:1											
THD of output voltage	<1% (with linear load), <5% (with non-linear load)											
O utput voltage tolerance	± 1% (with balance load)											
Overload c apacity	10 minutes at 125%, 30 seconds at 150%, 0.1 seconds >150%											
Efficiency in Eco mode	98%											
Bypass	Built-in Automatic and Maintenance By-pass											
Batteries												
Battery type	VRLA - AGM Maintenance-free Lead Acid Batteries											
B attery test	Automatic or manual											
Communication and management												
LCD Display	Four LED's to show status at a glance. Four menu-driven interface buttons							Touch Screen display				
Communication Ports	Voltage free relay contacts, RS485 ModBus-RTU, Ethernet ModBus over IP or SNMP protocol (slot SNMP optional)											
Audible Alarm	Acoustic alarms and warnings, configurable delays											
Emergency Power Ou (EPO)	Yes											
Remote Management	Available											
Battery temperature probe	Yes											
Physical characteristics												
Dimensions W x D x H (mm)	400 x 650 x 1230		560 x 940 x 1800					850 x 900 x 1975			1450 x 970 x 1980	
Net Weight (kg)	120	140	250	300	320	360	380	720	800	900	1000	1200
Ambient conditions												
Operating temperature (°C)	0÷40											
Relative humidity (%)	< 95% not condensing											
Protection index	IP20											
Noise at 1 m (dBA)	< 60							< 65				
Certifications												
Complies to	EN 62040-1, EN 62040-2, EN 62040-3											
R eference product s tandards	UE											

Note: As standard specifications are subject to change due to continuous development. Please check for confirmation in the publication
General Tolerance for dimension ± 2 mm

Customer services

Reliable

Directly present in 254 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 value-added 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
- Warranty extension offers
- Annual maintenance contract

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 setting-up of the UPS system before going live. They also configure the UPS 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, installation 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 with PM include cleaning, UPS measurements, functional tests, technical reports if required, battery health checkup and software upgrades. 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 engineers and spare-parts stocks strategically located as close as possible to your location, provide an intervention time with 24/7/365 assistance.
After connecting a laptop to your UPS, a 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 to return the UPS system back to normal operation.

COSTA POWER INDUSTRIES PVT. LTD.

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