

# UPS

## UNINTERRUPTIBLE POWER SUPPLY

up to 4.8 MVA



GLOBAL SPECIALIST IN ELECTRICAL  
AND DIGITAL BUILDING INFRASTRUCTURES



# UPS systems: UPS units up to

## SINGLE-PHASE UPS

### Keor DC



Single-phase UPS DC 25W

[P. 14](#)

### Keor Multiplug



Single-phase UPS line interactive VI from 0.6 to 0.8 kVA

[P. 15](#)

### Keor SP



Single-phase UPS line interactive VI from 0.6 to 2 kVA

[P. 16](#)

### Keor PDU



Single-phase UPS, off-line VFD 0.8 kVA

[P. 17](#)

## MODULAR UPS

### Megaline



Single-phase UPS, on-line double conversion VFI from 1.25 to 10 kVA

[P. 33](#)

### Trimod HE



Three-phase UPS, on-line double conversion VFI from 10 to 80 kVA

[P. 37](#)

### Trimod MCS



Modular CPS, on-line double conversion VFI from 3 to 80 kVA

[P. 40](#)

## CONVENTIONAL UPS

### Keor Compact



Three-phase UPS, on-line double conversion VFI from 10 to 20 kVA

[P. 48](#)

### Keor T Evo



Three-phase UPS, on-line double conversion VFI from 10 to 60 kVA

[P. 50](#)

### Keor HP



Three-phase UPS, on-line double conversion VFI from 100 to 800 kVA

[P. 52](#)

## BATTERY CABINET



Universal battery cabinets for all three-phase UPS from 10 to 800 kVA.

[P. 58](#)

# 4.8 MVA

## Niky S



Single-phase UPS line interactive VI-SS from 1 to 3 kVA

[P. 18](#)

## Keor Line RT



Single-phase UPS line interactive VI-SS from 1 to 3 kVA

[P. 19](#)

## Keor LP



Single-phase UPS, on-line double conversion VFI-SS-111 from 1 to 3 kVA

[P. 20](#)

## Daker DK Plus



Single-phase UPS, on-line double conversion VFI from 1 to 10 kVA

[P. 22](#)

## Keor S



Single-phase UPS, on-line double conversion VFI from 3 to 10 kVA

[P. 26](#)

## Keor MOD



Three-phase UPS, on-line double conversion VFI from 25 to 250 kVA

[P. 42](#)

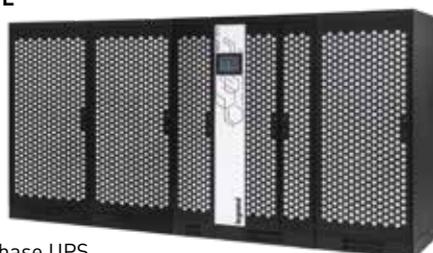
## Keor HPE



Three-phase UPS, on-line double conversion VFI from 60 to 500 kVA

[P. 54](#)

## Keor XPE



Three-phase UPS, on-line double conversion VFI from 600 to 2100 kVA

[P.56](#)

# COMMUNICATION ACCESSORIES AND SOFTWARE

## Network interfaces



[P. 61](#)

## Network interface accessories



[P. 62](#)

## Software



[P. 63](#)



# UPS

## High performance, uninterruptible service and energy efficiency.

The wide diffusion of UPS systems generally stems from an increasing dependence on electricity and the need to protect a range of equipment, data and processes that are crucial to companies. Power electronics is focused on the design and development of static UPS with increasing performance, which provide adequate energy saving along with lower environmental impact.

### Safety and uninterruptible service

Any electronic device that is not properly protected by UPS systems may be subject to disturbances from the mains supply. Electrical events such as voltage dips, black-outs, voltage surges, or other voltage or frequency anomalies, can generate serious consequences including:

- interruption of services
- loss of data and information
- faults or damage to the actual electronic devices.

The solution to these problems is provided by Uninterruptible Power Supplies (UPS) which, when installed between the power supply network and the equipment, **improve the quality of the power** by ensuring **uninterruptible service** and **protection** of all devices that perform functions that are critical to the business life of companies.

### Energy efficiency

Thanks to the use of the latest technologies, the new concept UPS boast high efficiency and an intelligent battery charging system that extends its useful life. In addition to significantly reducing UPS consumptions and operating costs, these features contribute to reducing the environmental impact of battery disposal.





## LEGRAND IS A WORLD LEADER IN THE MANUFACTURING OF ELECTRICAL EQUIPMENT,

and offers a wide range of solutions for the tertiary sector, that meet all system demands, from cabling systems for data networks, to channelling and distribution systems, to plant control and management.

Today, with a view to technological development that respects the environment and in order to face a constantly evolving market, Legrand proposes a new UPS range, a complementary offer of technological functions able to guarantee maximum protection for all systems.

**Legrand UPS** is currently the manufacturer with the highest growth rate on the market; it also recently received two major awards worldwide and was named Company of the Year and Company with the highest growth rate by Frost & Sullivan (an international market research and consulting firm).

These results have been achieved through a number of factors such as recent acquisitions, product development activity and, above all, growth in sales of products and services.



# 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 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.

## 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.

## 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.





### 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.



### 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 CO<sub>2</sub> 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.

### L'EPD/PEP

For each product range 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.





# LEGRAND UPS

## Distinguishing characteristics

### High performance

The innovative design and high quality of the components used enable our UPS to achieve up to 96,5% efficiency, leading to significant energy savings.

### Latest generation components

In-depth research on the best electronic components on the market combined with state-of-the-art manufacturing methods, make Legrand UPS extremely reliable and abreast of the times.

### Environmentally sustainable products

Efficient UPS built with maximum attention to detail. Moreover, Legrand has developed an innovative testing system which reduces the energy consumed for each device manufactured.

### Advanced technology

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

### Reliable electronics

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

### High performance batteries

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

### Services

Legrand provides a complete range of services to meet the demands of all its customers



# Range of **application**

Each type of UPS is characterised by different design properties, which means that the range is ideally suitable and usable in different environments, from domestic to tertiary and industrial sectors, and applications in specific fields.

## **DOMESTIC APPLICATIONS**

Video surveillance, home alarms, smart TV, Home Entertainment systems

## **TRADE AND TERTIARY SECTORS**

Offices, shops, points of sale

## **HEALTH AND HOSPITALITY SECTORS**

Hospitals, medical centres, hotels

## **INDUSTRIAL AND LARGE TERTIARY STRUCTURE SECTORS**

Factories, warehouses, shopping centres

## **TRANSPORT**

Airports, rail and ship transport

## **DATA PROCESSING CENTRES**

Datacenter



# RANGE

**LEGRAND** offers a range of UPS products that are divided into 2 different types of products:  
**single-phase and three-phase.**

**The range is wide and complete,** with solutions that guarantee maximum performance in terms of power and backup time.



Megaline -  
Megaline Rack



Keor LP



Daker DK Plus



Keor S

**Online**

**Single-phase UPS**



Keor MOD



Trimod HE



Trimod MCS

**Modular**

**Three-phase UPS**



Keor Multiplug



Keor SP



Niky S



Keor Line RT



Keor PDU



Keor DC

## Line Interactive



## Off-line



## DC



Keor Compact



Keor HP



Keor T Evo



Keor HPE



Keor XPE

## Conventional



# SINGLE-PHASE UPS

**The Legrand single-phase UPS range** is comprehensive and complete, with solutions that meet the demands of different application sectors, from domestic to tertiary.

The range is available from 25 W up to 10 kVA and is divided into 2 types of products:

- **Consumer and Line interactive**
- **On-Line double conversion**

## Consumer and Line Interactive

These are compact UPS, easy to install and configure and provide an excellent high quality/price ratio together with the guarantee of a long-term investment.

They are equipped with LED indicators that provide monitoring of the UPS status, whilst guaranteeing protection of the devices connected to the same.

The Line Interactive products are equipped with a filtering and stabilizing circuit (AVR: Automatic Voltage Regulator).

This version comprises:

- Keor DC - Keor Multiplug - Keor SP - Niky S - Keor Line RT - Keor PDU.**

## On-Line double conversion

These UPS use high frequency PWM technology, suitable for use in professional environments such as **IT application, offices, factories, shops and points of sale.**

They are fitted with:

- DSP microprocessors for precise, constant control of all measurements and of the power factor correction circuit (PFC)
- Transformer-free technology electronics for high quality energy output with up to 96% efficiency.
- Hermetically-sealed, maintenance-free, valve regulated rechargeable batteries, lodged inside a designated section of the UPS or in one or more external cabinets.

The products that are part of this version are:

- Keor LP - Daker DK Plus - Keor S.**

## Keor LP

UPS for low and medium power applications, available with different types of output sockets. All versions have a slot for connecting SNMP communication interfaces.

## THE ON-LINE RANGE



Keor LP  
from 1 to 3 kVA



### Keor DC

It provides power to all domestic Internet-connected devices such as modems, routers, cordless phones, or VoIP. Output voltage can be selected.

#### THE CONSUMER AND LINE INTERACTIVE RANGE



Keor DC  
25 W



Keor Multiplug  
from 600 to 800 VA



Keor SP  
from 600 VA to 2 kVA



Niky S  
from 1 to 3 kVA



Keor Line RT  
from 1 to 3 kVA



Keor PDU  
800 VA



### Keor Multiplug - Keor SP - Niky S - Keor Line RT

These are line-interactive technology UPS that guarantee total and reliable protection for all Small-Office and Home-Office applications. They are supplied with electronic voltage regulator and telephone protection.



### Keor PDU

It is specifically designed for installation in 19" panels and racks. IT is equipped with devices to protect against full battery discharge, overloads and short circuits.



### Daker DK Plus

With the reversible screen, the Daker DK Plus UPS can be used in both tower and 19" rack configuration.



Daker DK Plus  
from 1 to 10 kVA



### Keor S

Compact, robust and easy to move, Keor S is the perfect UPS to protect and supply loads in the industrial fields. Two different models are available as internal configuration; internal battery only or input isolation transformer with internal battery. Protection Degree IP31



Keor S  
from 3 to 10 kVA