

# TriMOD

THREE-PHASE MODULAR UPS

from 10 to 80 kW



# 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.

### BUSINESS ECOSYSTEM

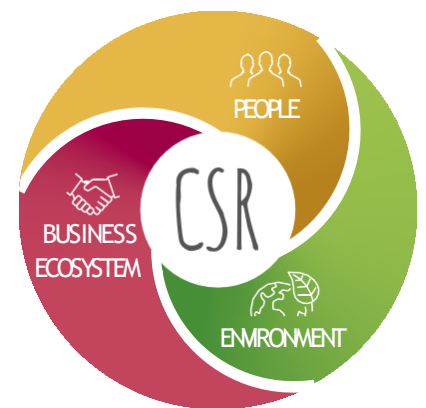
or how Legrand interacts ethically with the whole ecosystem of its activities.

### 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.



## 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

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.



## EPD/PEP

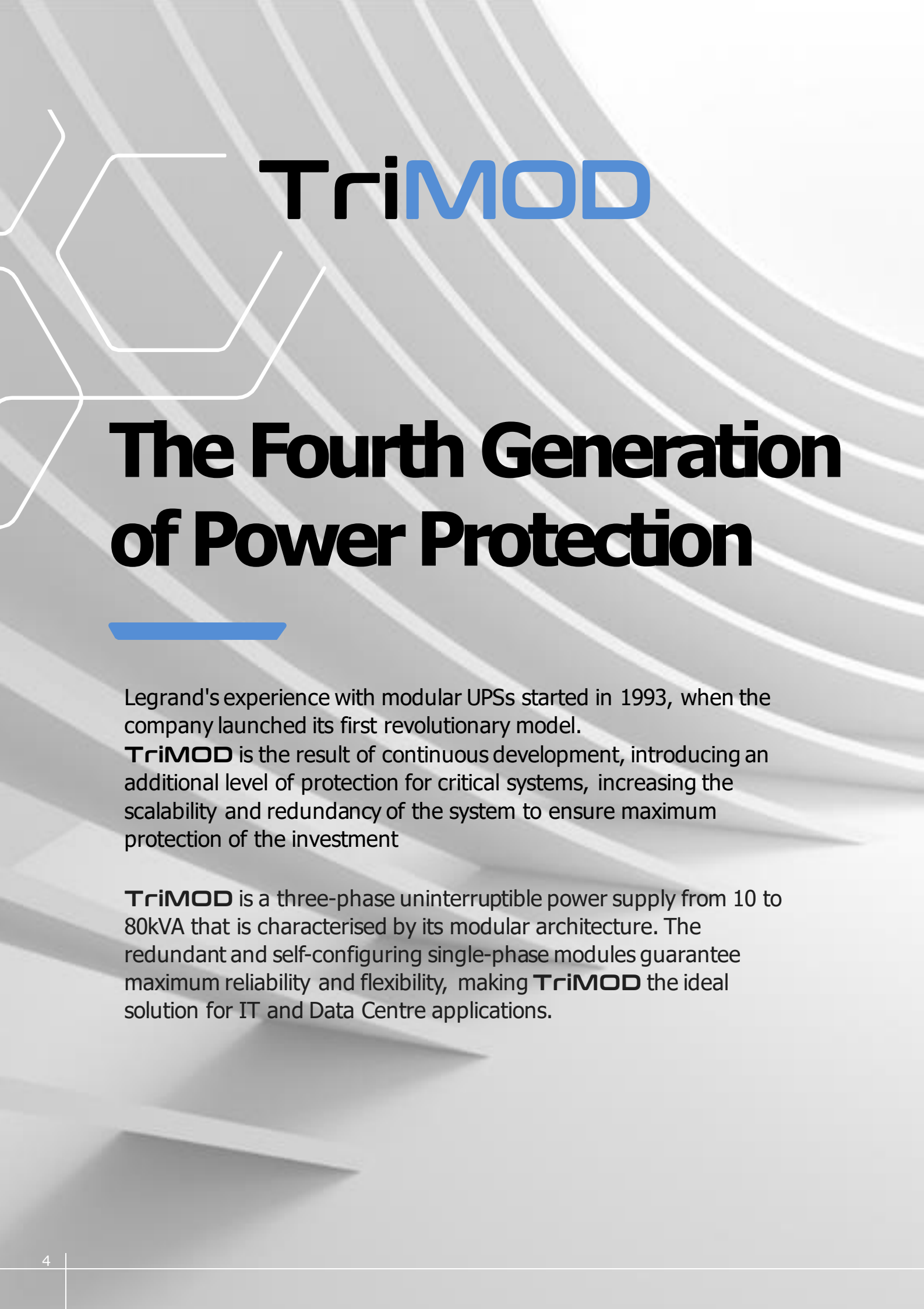


For each product family we draw up an EPD (Environmental Product Declaration) or PEP (Profil Environnemental Produit) in line with ISO 14025: it is a declaration that is a sort of environmental photograph of the product.

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](https://ups.legrand.com) to download the app.





# TriMOD

## The Fourth Generation of Power Protection

---

Legrand's experience with modular UPSs started in 1993, when the company launched its first revolutionary model.

**TriMOD** is the result of continuous development, introducing an additional level of protection for critical systems, increasing the scalability and redundancy of the system to ensure maximum protection of the investment

**TriMOD** is a three-phase uninterruptible power supply from 10 to 80kVA that is characterised by its modular architecture. The redundant and self-configuring single-phase modules guarantee maximum reliability and flexibility, making **TriMOD** the ideal solution for IT and Data Centre applications.





# TriMOD

## ADVANTAGES

**TriMOD revolutionises the three-phase UPS concept with its innovative modularity based on individual single-phase modules.** This revolutionary architecture offers a number of unique advantages:



### **EXPANDIBLE**

Single-phase modules allow power to be managed more efficiently, adapting to the specific needs of the load.



### **LIGHTWEIGHT DESIGN**

Easy to transport and install thanks its compact size and light weight (only 8.4kg for PM). Maintenance is quick, simple and safe.





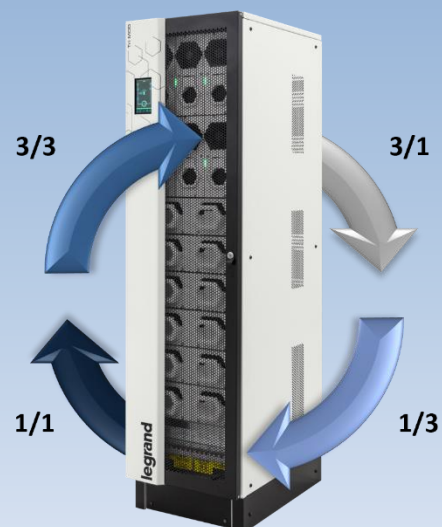
## **SAFE AND EASY HANDLING**

Hot-swappable battery drawers designed according to EN 60485-2 to prevent overheating



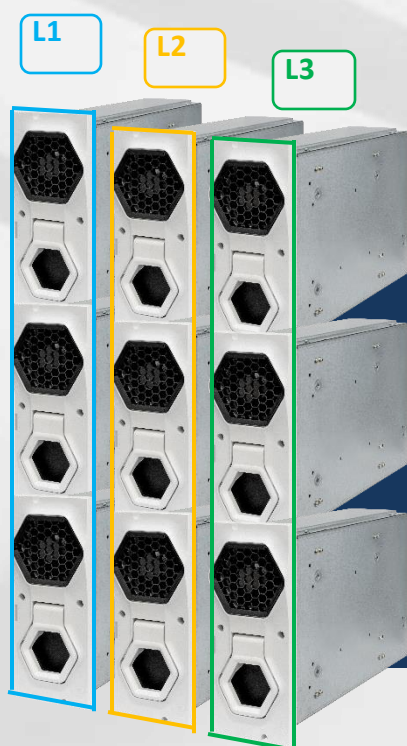
## **SCALABLE**

The system offers high granularity, with parallel option for power modules and UPS cabinets



## **FLEXIBLE**

TriMOD offers Multi In/out configuration (3/3, 1/1, 3/1, 1/3) thanks to its 3 independent single-phase lines.



## **VERTICAL PARALLELABILITY**

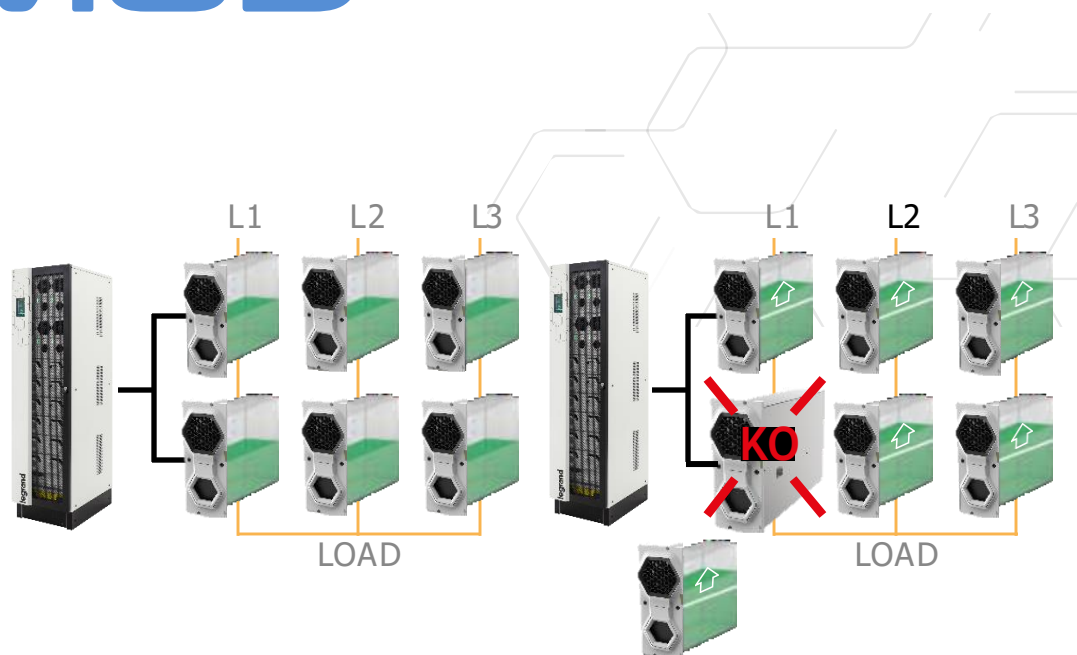
The power modules are connected in parallel in columns and each column is related to a phase



# TriMOD

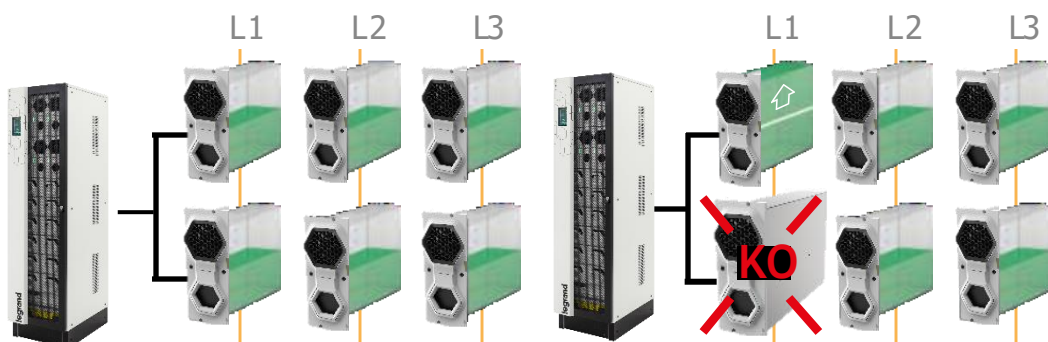
## REDUNDANCY ON SINGLE-PHASE LOAD

In a system with three-phase power supply and single-phase load, if one of the modules fails, there is no loss of power as it is supplied by the other modules in operation.



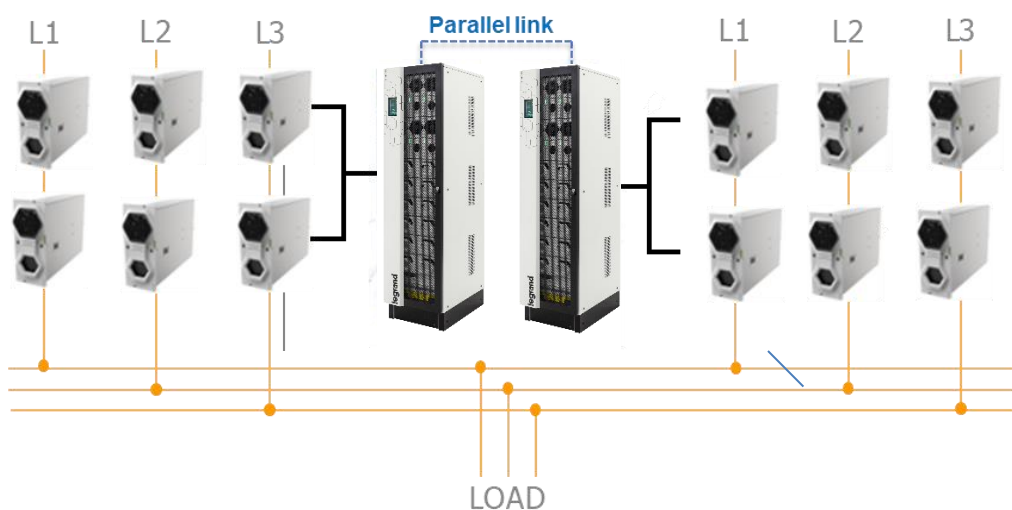
## REDUNDANCY ON THE PHASES

In a system with three independent outputs, it is possible to set the redundancy on the single phases. If one of the power modules fails, the modules in the same phase take over for the defective module.



## ORIZONTAL REDUNDANCY

Each TriMOD unit can be connected in parallel with one or more units to obtain the desired power and redundancy level. In addition, the inverter output can be synchronized for no-break load transfers by downstream static transfer switches.





# TriMOD

## User-friendly HMI

The 5" touch screen display provides an user-friendly interface for monitoring the UPS in real time. Historical alarm logs and messages facilitate maintenance and resolution of problems. The latest generation of predictive diagnostics anticipates potential faults, ensuring maximum business continuity.



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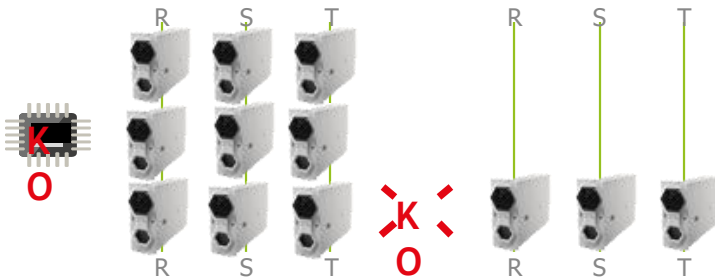


# TriMOD

## MULTI CONTROL BOARD SYSTEM:

### advanced redundancy for maximum service continuity

TriMOD can be configured from 1 to 4 Multi Control Boards ensuring redundant control of the UPS, eliminating single points of failure and maximising reliability.



#### LOAD REDUNDANCY

In the event of a control module failure, power is automatically redistributed to the other modules, ensuring continuity of service.

#### HOT-SWAP

Replacement of power modules by switching off the relevant control and the group of modules connected to it, without having to supply the load from the bypass line, with risk to loss the protection.

#### HIGH RELIABILITY

The controls of the power modules are distributed thus avoiding the possibility of single points of failure







3 112 84

### Characteristics:

- Modular three-phase UPS from 1 to 80 kVA
- On-Line double conversion VFI-SS-11
- Adaptable, redundant and scalable solutions (NOUT 3-1 phase configuration)
- Quick and simple maintenance
- Low environmental impact
- Diagnostics, monitoring, historical data and parameters by display
- Reduced foot print and dimensions
- Taller cabinet to extend backup time and standard configurations
- Multi control board function
- Hot Swap system
- Frequency converter in 40-70Hz out 50/60Hz (selectable)
- Operations with genset
- Three independent phase outputs
- Event log complete with date and time

| Item                   | UPS | Power (kVA) | Back-up time (min.) | No. and Type Cabinet | Weight (kg) |
|------------------------|-----|-------------|---------------------|----------------------|-------------|
| 3 112 75               |     | 10          | 11                  | 1A                   | 167         |
| 3 112 76               |     | 10          | 21                  | 1A                   | 223         |
| 3 112 77               |     | 10          | 35                  | 1A                   | 279         |
| 3 112 78               |     | 10          | 49                  | 1B                   | 350         |
| 3 112 79               |     | 15          | 13                  | 1A                   | 220         |
| 3 112 80               |     | 15          | 21                  | 1A                   | 279         |
| 3 112 81               |     | 15          | 29                  | 1B                   | 350         |
| 3 112 82               |     | 20          | 9                   | 1A                   | 220         |
| 3 112 83               |     | 20          | 14                  | 1A                   | 279         |
| 3 112 84               |     | 20          | 20                  | 1B                   | 350         |
| 3 112 85               |     | 30          | 8                   | 1B                   | 325         |
| 3 112 86+ 3 113 27     |     | 40          | 8                   | 2A                   | 564         |
| 3 112 87+ 2 x 3 113 27 |     | 60          | 10                  | 3A                   | 830         |
| 3 112 88+3 104 78      |     | 80          | 9                   | 2B                   | 992         |

Cabinet A h=1370, Cabinet B h=1650

### Accessories

|          |                                        |
|----------|----------------------------------------|
| 3 113 15 | Power module 3.4 kVA                   |
| 3 113 16 | Power module 5 kVA                     |
| 3 113 17 | Power module 6.7 kVA                   |
| 3 108 51 | Additional battery charger module 15 A |
| 3 108 66 | Kit of 3 power module covers           |
| 3 111 12 | Seismic kit                            |

### Battery accessories

|          |                                         |
|----------|-----------------------------------------|
| 3 113 18 | Kit of 4 empty battery drawers          |
| 3 113 19 | Kit of 4 battery drawers 9Ah            |
| 3 113 20 | Kit of 4 battery drawers 9Ah long life  |
| 3 113 21 | Kit of 4 battery drawers 11Ah long life |

### Additional empty battery cabinet

|          |                                   |
|----------|-----------------------------------|
| 3 113 22 | 16-drawer modular battery cabinet |
| 3 113 23 | 20-drawer modular battery cabinet |

### Additional battery cabinet with 9Ah batteries

|          |                                   |
|----------|-----------------------------------|
| 3 113 24 | 4-drawer modular battery cabinet  |
| 3 113 25 | 8-drawer modular battery cabinet  |
| 3 113 26 | 12-drawer modular battery cabinet |
| 3 113 27 | 16-drawer modular battery cabinet |
| 3 113 28 | 20-drawer modular battery cabinet |

| Item     | Power cabinet | Power (kVA) | No. of installable battery drawers | No. of phases         | Type Cabinet | Weight (kg) |
|----------|---------------|-------------|------------------------------------|-----------------------|--------------|-------------|
| 3 112 89 |               | 10          | 12                                 | 1-1 / 3-3 / 3-1 / 1-3 | A            | 120         |
| 3 112 90 |               | 10          | 16                                 | 1-1 / 3-3 / 3-1 / 1-3 | B            | 155         |
| 3 112 91 |               | 15          | 12                                 | 1-1 / 3-3 / 3-1 / 1-3 | A            | 120         |
| 3 112 92 |               | 15          | 16                                 | 1-1 / 3-3 / 3-1 / 1-3 | B            | 155         |
| 3 112 93 |               | 20          | 12                                 | 1-1 / 3-3 / 3-1 / 1-3 | A            | 120         |
| 3 112 94 |               | 20          | 16                                 | 1-1 / 3-3 / 3-1 / 1-3 | B            | 155         |
| 3 112 95 |               | 30          | -                                  | 3-3                   | A            | 146         |
| 3 112 96 |               | 30          | 12                                 | 3-3                   | B            | 181         |
| 3 112 96 |               | 30          | -                                  | 3-3                   | A            | 146         |
| 3 112 87 |               | 60          | -                                  | 3-3                   | A            | 165         |
| 3 112 88 |               | 80          | -                                  | 3-3                   | B            | 220         |

### Power cabinets (empty)

|          | No. of installable power Modules | No. of installable battery drawers | No. of phases         | Type Cabinet | Weight (kg) |
|----------|----------------------------------|------------------------------------|-----------------------|--------------|-------------|
| 3 112 97 | 3 x 3.4 kVA                      | 12                                 | 1-1 / 3-3 / 3-1 / 1-3 | A            | 85          |
| 3 112 98 | 3 x 3.4 kVA                      | 16                                 | 1-1 / 3-3 / 3-1 / 1-3 | B            | 98          |
| 3 112 99 | 3 x 5.06,7 kVA                   | 12                                 | 1-1 / 3-3 / 3-1 / 1-3 | A            | 90          |
| 3 113 00 | 6 x 3.4 kVA                      | 12                                 | 1-1 / 3-3 / 3-1 / 1-3 | B            | 102         |
| 3 113 01 | 3 x 5.06,7 kVA                   | 16                                 | 1-1 / 3-3 / 3-1 / 1-3 | B            | 102         |
| 3 113 02 | 6 x 5 kVA                        | -                                  | 3-3                   | A            | 80          |
| 3 113 03 | 6 x 5 kVA                        | -                                  | 1-1/3-3/3-1/1-3       | A            | 84          |
| 3 113 04 | 6 x 5 kVA                        | 12                                 | 3-3                   | B            | 104         |
| 3 113 05 | 6 x 6.7 kVA                      | -                                  | 3-3                   | A            | 80          |
| 3 113 06 | 9 x 6.7 kVA                      | -                                  | 3-3                   | A            | 90          |
| 3 113 07 | 12x 6.7kVA                       | -                                  | 3-3                   | B            | 120         |

### Power cabinets with MULTI CONTROL BOARD (empty)

|          | No. of installable power Modules | No. of installable battery drawers | No. of phases         | Type Cabinet | Weight (kg) | No. of controls |
|----------|----------------------------------|------------------------------------|-----------------------|--------------|-------------|-----------------|
| 3 113 08 | 6x 3.4-5-6,7kVA                  | -                                  | 1-1 / 3-3 / 3-1 / 1-3 | A            | 85          | 2               |
| 3 113 09 | 6 x 5 kVA                        | 12                                 | 3-3                   | B            | 106         | 2               |
| 3 113 10 | 6 x 6.7 kVA                      | -                                  | 3-3                   | A            | 82          | 2               |
| 3 113 11 | 9 x 6.7 kVA                      | -                                  | 3-3                   | A            | 91          | 3               |
| 3 113 12 | 12 x 6.7 kVA                     | -                                  | 3-3                   | B            | 120         | 4               |

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



For the choice of communication accessories, see the dedicated section of this catalogue.

# TriMOD

## Modular three-phase double conversion UPS VFI

### Characteristics

|                              |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|----------|-----------|-----------------------|----------|----------|-----|
| General Characteristics      | 3 112 89                                                                                    | 3 112 91                                                                                                            | 3 112 94 | 3 112 95* | 3 112 86*             | 3 112 87 | 3 113 12 |     |
|                              | 3 112 90                                                                                    | 3 112 92                                                                                                            | 3 112 93 | 3 112 96* | 3 113 10*             | 3 113 11 | 3 112 88 |     |
|                              | 3 112 97                                                                                    |                                                                                                                     | 3 112 99 | 3 113 04* | 3 113 05*             | 3 113 06 | 3 113 07 |     |
|                              | 3 112 98                                                                                    |                                                                                                                     | 3 113 00 | 3 113 02* |                       |          |          |     |
|                              | Nominal power (kVA)                                                                         | 10                                                                                                                  | 15       | 20        | 30                    | 40       | 60       | 80  |
|                              | Active power (kW)                                                                           | 10                                                                                                                  | 15       | 20        | 30                    | 40       | 60       | 80  |
|                              | Module power (kVA)                                                                          | 3,4                                                                                                                 | 5        | 6,7       | 5                     | 6,7      | 6,7      | 6,7 |
|                              | Technology                                                                                  | On-Line Double Conversion VFI-SS-11                                                                                 |          |           |                       |          |          |     |
|                              | System                                                                                      | Modular, expandable and redundant UPS system                                                                        |          |           |                       |          |          |     |
| Input specifications         |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|                              | Input voltage                                                                               | 380, 400, 415 3F+N+PE<br>(o 220, 230, 240 1F)                                                                       |          |           | 380, 400, 415 3F+N+PE |          |          |     |
|                              | Input frequency                                                                             | 50/60Hz                                                                                                             |          |           |                       |          |          |     |
|                              | Input voltage range                                                                         | 400V +15% -20%                                                                                                      |          |           |                       |          |          |     |
|                              | THD Input current                                                                           | < 3.5% (at full load)                                                                                               |          |           |                       |          |          |     |
|                              | Compatibility with genset                                                                   | Yes                                                                                                                 |          |           |                       |          |          |     |
|                              | Input Power Factor                                                                          | > 0,99                                                                                                              |          |           |                       |          |          |     |
| Output Specifications        |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|                              | Output voltage                                                                              | 380, 400, 415 3F+N+PE<br>(o 220, 230, 240 1F)                                                                       |          |           | 380, 400, 415 3F+N+PE |          |          |     |
|                              | Efficiency                                                                                  | -                                                                                                                   |          |           |                       |          |          |     |
|                              | Efficiency in Eco Mode                                                                      | Up to 99%                                                                                                           |          |           |                       |          |          |     |
|                              | Nominal output frequency                                                                    | 50/60 Hz                                                                                                            |          |           |                       |          |          |     |
|                              | Peak factor                                                                                 | 3:1                                                                                                                 |          |           |                       |          |          |     |
|                              | Waveform                                                                                    | Sinusoidale                                                                                                         |          |           |                       |          |          |     |
|                              | Output Voltage Tolerance                                                                    | ±1%                                                                                                                 |          |           |                       |          |          |     |
|                              | THD Output Voltage                                                                          | < 1%                                                                                                                |          |           |                       |          |          |     |
|                              | Overload capacity                                                                           | 10 minutes at 112.5%, 60 seconds at 135%                                                                            |          |           |                       |          |          |     |
|                              | Bypass                                                                                      | Automatic bypass (static and electromechanical) and manual maintenance bypass                                       |          |           |                       |          |          |     |
| Batteries                    |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|                              | Battery module                                                                              | Plug & Play                                                                                                         |          |           |                       |          |          |     |
|                              | Battery series type/voltage                                                                 | VRLA                                                                                                                |          |           |                       |          |          |     |
|                              | Back-up time                                                                                | Configurable                                                                                                        |          |           |                       |          |          |     |
|                              | Battery charger                                                                             | Tecnologia Smart Charge. ciclo avanzato in 3 stadi                                                                  |          |           |                       |          |          |     |
| Communication and management |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|                              | Screen and signalling                                                                       | Touch Screen 5"                                                                                                     |          |           |                       |          |          |     |
|                              | Communication ports                                                                         | 1xRS232, 1xslot SNMP, 1xUSB (service), 1xUSB host port                                                              |          |           |                       |          |          |     |
|                              | Auxiliary signal                                                                            | 6 output floating contacts, 5 input floating contacts (including EPO), external temperature sensor, external bypass |          |           |                       |          |          |     |
|                              | Back feed protection                                                                        | NC/NO auxiliary contact                                                                                             |          |           |                       |          |          |     |
|                              | Emergency Power Off (EPO)                                                                   | Yes                                                                                                                 |          |           |                       |          |          |     |
|                              | Remote control                                                                              | Available                                                                                                           |          |           |                       |          |          |     |
| Mechanical characteristics   |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|                              | Height A-B (mm)                                                                             | 1520 - 1650                                                                                                         |          |           |                       |          |          |     |
|                              | Width (mm)                                                                                  | 414                                                                                                                 |          |           | 414                   | 414      | 414      | 414 |
|                              | Depth (mm)                                                                                  | 628                                                                                                                 |          |           | 628                   | 628      | 628      | 628 |
|                              | Number of Installed Power Modules                                                           | 3                                                                                                                   |          |           | 6                     | 6        | 9        | 12  |
|                              | Installable battery drawers (A-B)                                                           | Fino a 12 - Fino a 16                                                                                               |          |           | Fino a 0 - 12         | -        | -        | -   |
|                              | Net weight A-B (kg)                                                                         | Refer to the previous page, where there are the weights of the various configurations                               |          |           |                       |          |          |     |
| Ambient Conditions           |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|                              | Operating temperature/humidity                                                              | 0-40°C/ 10% to 95% (non-condensing)                                                                                 |          |           |                       |          |          |     |
|                              | Protection rating                                                                           | IP20                                                                                                                |          |           |                       |          |          |     |
|                              | Noise at 1 m from the unit (dBA)                                                            | -                                                                                                                   |          |           |                       |          |          |     |
|                              | Estimated content of circular economy derived materials**                                   |                                                                                                                     |          |           |                       |          |          |     |
|                              | - Product alone                                                                             | -                                                                                                                   |          |           |                       |          |          |     |
|                              | - Packaging only                                                                            | -                                                                                                                   |          |           |                       |          |          |     |
|                              | - Total recyclability value of the product                                                  | -                                                                                                                   |          |           |                       |          |          |     |
|                              | Recyclability rate calculated using the method described in technical report IEC/TR 62635** | -                                                                                                                   |          |           |                       |          |          |     |
| Certifications               |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|                              | Standards                                                                                   | EN 62040-1, EN 62040-2, EN 62040-3, battery regulations (bettery standard)                                          |          |           |                       |          |          |     |
| Services                     |                                                                                             |                                                                                                                     |          |           |                       |          |          |     |
|                              | Installation                                                                                | User executable, modular architecture with “Plug & Play” power modules and batteries                                |          |           |                       |          |          |     |
|                              | Maintenance                                                                                 | User executable, availability of optional services provided by the manufacturer                                     |          |           |                       |          |          |     |
|                              | Ease of management                                                                          | Advanced diagnostic functions via the touch screen display                                                          |          |           |                       |          |          |     |

\* Standard configurations with 3-3 distribution (multi IN/OUT conf available on request)

\*\*The published value is based on data collected from an industrially organised technology supply chain and does not assume the actual use of this supply chain at the end of the life of electrical and electronic products

# SERVIZI AL CLIENTE



## AFFIDABILE

Direttamente presenti in più di 70 paesi, siamo in grado di intervenire e dare supporto in oltre 150 paesi nel mondo. Un team di tecnici qualificati è disponibile per darvi assistenza e garantire il funzionamento del vostro UPS consentendo così un'elevata qualità dell'alimentazione e disponibilità di energia anche ai carichi più critici.

## ECCELLENZA

Il vantaggio competitivo di Legrand risiede nella sua capacità di fornire UPS ad alto valore aggiunto e servizi sia per gli utenti finali e partner commerciali. Per Legrand, la creazione di valore significa trovare soluzioni a basso consumo energetico, ma anche integrazione di soluzioni nel processo di sviluppo globale. Con circa 200.000 articoli a catalogo, il Gruppo fornisce tutti i prodotti necessari per la realizzazione di impianti elettrici e digitali, in particolare sistemi integrati, con l'obiettivo di trovare soluzioni per soddisfare le esigenze di tutti.

## FATTOSU MISURA

Legrand offre una gamma completa di soluzioni specifiche e servizi per soddisfare le richieste dei clienti:

- Supporto tecnico pre-vendita in fase di progettazione
- Test di collaudo in fabbrica
- Supervisione di installazione, collaudo e messa in servizio.
- Test sul sito di accettazione
- La formazione degli operatori
- Audit del sito
- Estensione della garanzia
- Contratto di manutenzione annuale
- Intervento veloce in caso di chiamata di emergenza







# SUPPORTO FORMAZIONE MANUTENZIONE

## SUPPORTO

### Ispezione del sito, supervisione dell'installazione

Eseguiamo un controllo completo dell'ambiente in cui verrà installato l'UPS per garantirne la sicurezza e il funzionamento senza guasti. I nostri tecnici forniscono raccomandazioni per lo studio tecnico o per l'installatore elettrico, e supervisionano l'installazione dell'UPS prima della messa in servizio.

### Test sul sito, messa in servizio

I nostri tecnici effettuano rigorose prove sul sito e una configurazione completa dell'UPS prima della messa in servizio. Eseguono anche test di collaudo in base alle vostre esigenze. Le operazioni di messa in servizio degli UPS sono svolte da nostri ingegneri qualificati, per garantire dopo lo start-up la massima funzionalità e l'eliminazione di eventuali problemi.



## FORMAZIONE

Offriamo formazione in loco per garantire l'utilizzo in totale sicurezza e il funzionamento efficiente del vostro UPS. Sono disponibili corsi di manutenzione presso le nostre sale formazione con attrezzature su cui sarà possibile fare attività pratiche.



## MANUTENZIONE

### Manutenzione preventiva

Apparecchiature elettroniche e sistemi elettrici, come gli UPS, contengono componenti e parti a vita limitata che devono essere sostituiti periodicamente secondo le specifiche del costruttore, tali tempi vengono influenzati da molteplici fattori, come la temperatura ambiente, la natura del carico ecc. ecc.. Per garantire prestazioni ottimali e per proteggere le vostre applicazioni critiche nel migliore dei modi, da potenziali tempi di inattività, è fondamentale eseguire regolari operazioni di manutenzione preventiva e sostituire le parti usurate quando necessario. I nostri contratti di servizio comprendono la pulizia, termografia IR, misurazioni, prove funzionali, log eventi e analisi della qualità dell'alimentazione, check della vita delle batterie, aggiornamenti hardware e software e relazioni tecniche. Un piano di manutenzione preventiva è uno delle azioni più convenienti per preservare il vostro investimento e assicurare la continuità del vostro business.

### Manutenzione correttiva, intervento d'emergenza

Grazie all'ausilio di strumentazione all'avanguardia, di software appositamente creati per il service e a costanti corsi di aggiornamento, i nostri tecnici riescono a ridurre al minimo i tempi di analisi, garantendo così un breve MTTR (Mean Time To Repair - tempo di riparazione). Verranno sostituite le parti mal funzionanti, eseguite azioni correttive, adeguamenti ed aggiornamenti per riportare l'UPS al suo funzionamento normale con estrema rapidità.



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Numero attivo dal lunedì al venerdì  
dalle 8.30 alle 18.30  
Al di fuori di questi orari è possibile inviare  
richieste tramite i contatti del sito web.  
La richiesta sarà presa in carico e verrà dato  
riscontro il più presto possibile.

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