

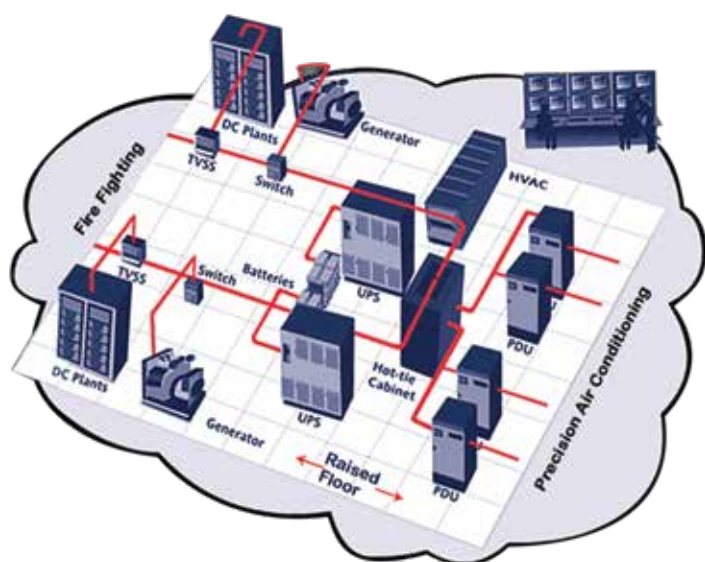
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GemNet is a power products, services & solutions provider which also offers energy management services. With over two decades of experience and regional presence in the power quality industry, GemNet has a proven track record of excellence and commitment to its customers.

Our products include Uninterruptible Power Supply Systems (AC & DC UPS), Maintenance Free Batteries, Stabilizers, Transformers and Hybrid Energy Management, Solar Power Solution, Data Center Infrastructure Solution

Our service and support commitments are backed by a well established technical infrastructure to ensure that we meet customer service level requirements.



Mission Statement

- To provide business continuity by delivering top-quality power products and services on a nationwide basis.
- To empower its employees through a corporate culture of professionalism and open communication, thus enabling them to be proactive in providing premium power solutions to customer needs.

GemNet Today

GemNet's philosophy has always been to combine its local expertise supported with quality products, technical competence and the commitment of its principals. This has been the single most important success factor for GemNet, earning the reputation as one of the leading and most professional power products and solutions company in the region.

In 2018, GemNet entered into strategic partnership with Legrand under which GemNet was acquired by Legrand. With this acquisition, GemNet perfectly complements Legrand's commitment in providing its customers the best possible preventive and corrective maintenance in the field and enhance even further the efficiency, availability, scalability and services aimed at UPS solutions and other systems through GemNet's expertise and talent.

About Legrand

Legrand is the specialist in the development, manufacturing and marketing of a comprehensive range of products and systems for electrical and digital building infrastructures, offering high-performance portfolio of over 300,000 product references dedicated to electrical and digital infrastructures in buildings-including controls and command products and systems, energy and data flow distribution, cable management and installation components. Its technological expertise, its leading positions, the scope of its offering, its international presence and the power of its brands combine to make Legrand a global benchmark. With a presence in nearly 90 countries and a workforce of over 38,000 employees, Legrand generated total sales of close to €6.0 billion in 2018.

Products & Partners

The company's product range is comprised of internationally recognized top quality products. The company is the authorized distributor in its markets for some of the world's leading brands of power products.

The product offerings are:

- **Uninterruptible Power Systems**
- **Maintenance-Free Batteries**
- **Stabilizers & Transformers**
- **Energy Management Solutions**
- **Solar Power Solutions**
- **Data Center Infrastructure Solutions**



Uninterruptible Power Supply (UPS)

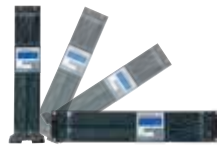
Legrand, world leader in the manufacture of electrical equipment, offers an extensive range of solutions to meet all the needs of service sector installations, from structured cabling systems for data networks through to control and management of the installation, including trunking and distribution systems. Incorporating an environmentally-friendly approach to technological development and to address a constantly changing market, Legrand is now offering its new range of UPS and additional functions to ensure superior performance and maximum continuity of service for all installations. Legrand UPS are ideal for all your requirements. It is an offer suitable for all applications with solutions providing the best performance levels in terms of power and back up time.

The Legrand UPS Range

Conventional UPS

From 0,8 up to 4.8MVA

On-line double conversion UPS with DSP microprocessors for precise, constant control of all measurements and of the power factor correction circuit (PFC). Transformer-free technology available for high quality energy output with up to 96% efficiency.



DAKER DK+
Single-phase UPS VFI
rack tower convertible
from 1 to 10 kVA



KEOR S
Single-phase UPS
VFI for industrial
applications
from 3 to 10 kVA



KEOR T EVO
New compact UPS
from 10 to 60 kW (PF1)



KEOR HP
Three-phase UPS
VFI with integrated
transformer
from 100 to 800 kVA



KEOR HPE
Three-phase UPS VFI
from 60 to 500 kW
(transformerless)

MODULAR UPS

From 1,25 up to 600KW

Legrand's modular UPS know-how goes back more than 20 years, when the first ever modular UPS were introduced in 1993. Innovative three-phase system, made up to individual single phase modules, provides the highest possible level of redundancy.



MEGALINE
Single-phase
modular UPS VFI,
from 1,25 up to 10kVA



TRIMOD HE
Three-phase
modular UPS VFI,
from 10 up to 80kW



KEOR MOD
Three-phase
modular UPS VFI,
from 25 up to 250kW



ARCHIMOD HE
Three-phase
modular UPS VFI,
from 20 up to 120kW



ARCHIMOD 480 kW
Three-phase
modular UPS VFI,
from 20 up to 480kW

The Legrand UPS Services: Site visit, Installation, Testing & Commissioning, Maintenance available upon request

Uninterruptible Power Supply (UPS)

There are nine common types of power problems; Power Failure, Power Sag, Power Surge, Under Voltage, Overvoltage, Switching Transients, Electrical Noise, Frequency Variation and Harmonic Distortion.

UPSs offer three levels of Power Protection for the above nine most common problems. The three UPS typologies are Stand-by (Series 3), Line - Interactive (Series 5), and Double Conversion Online (Series 9) Each series fits a different requirement of power protection giving a complete solution at all levels and making the selection process easy.

Software

GemNet Offers full line of shutdown and monitoring software products to enhance the protection provided by its UPSs.

UPSMAN: Server module for UPS management through the RS232 link. This module can control numerous events (power failure, overload, bypass, internal faults, etc..) and is able to carry out lots of actions for each one (data registration in the log file, transmission of popup messages, e-mail transmission, program execution, local and remote shutdown, etc...), also at different times.

RCCMD: agent to run commands on remote computers (shutdown, commands custom, pop-up messages) via TCP / IP protocol.

UPS RCCMD: This software enables a computer to receive and execute, via the TCP/IP protocol, the following remote commands transmitted by the UPS management systems.

UNMS (UPS Network Management System) is a WEB based application that can continuously monitor the status of all the UPS installed in one or more locations by means of the UPS management systems (network interface, UPS Management system, SNMP) and the TCP/IP protocol.

AC Solutions

We offer a full line of UPS's ranging from 500VA to more than 1200 kVA, with UPSAVER you can reach more than 40MW including software and connectivity devices that incorporate all the features that proactively manage systems, from basic monitoring and shutdown to predictive analysis and power management. Through that we have been protecting mission-critical operations and ensuring uptime for our customers in our region.

DC Solutions

GemNet's range of DC power products makes it easy to select a solution for any application, ranging from a small-medium private enterprise network power requirement to any situation in a large - scale core network. They are fully scalable and modular which conveniently allows for changing power requirements in the future.

These DC systems provide solutions for all DC-powered communications network applications - from central office carrier networks or private businesses, wireless or wireline, local-loop access or long-haul optics. The new 3G series offer many advantages including greater power density, more flexibility, and reduced CAPEX, OPEX and environmental footprint.

Our certified engineers provide a full design service for power systems to specifically suit individual applications and sites.

Connectivity

Connectivity options provide UPS monitoring through web browsers and web enabled portable devices. It allows for enterprise wide monitoring with SNMP, operating system shutdown, load segment control, remote upgrades and configurations, event data logs, graphical meter data view, environmental monitoring features and e-mail capability.



Power Failure



Power Sag



Power Surge



Under Voltage



Over Voltage



Switching Transient



Electrical Noise



Harmonic Distortion



Frequency Variations

Batteries

Our product portfolio carries an important and integral part of power – batteries. The range of batteries includes general purpose to specially designed batteries for efficient discharges in cyclical applications.

Our range of Valve Regulated Lead-Acid (VRLA) batteries are rechargeable, highly efficient, leak proof and maintenance free.



The application of these batteries can be found in :

- UPS Systems
- Telecommunication Systems
- Emergency Lighting
- Security & Fire Alarm Systems
- Medical Equipment
- Intelligent Buildings



Stabilizers

The stabilizing system is designed to operate with rate voltage and is expected to be connected between main power supply and the load. Its application ranges from a small office to an entire facility. It ensures a safe working environment by complete protection to the load from under and over voltage.



Transformers

Transformers offer the highest level of safety against fire while they safeguard the environment. These do not require maintenance and are designed for easy installation. Transformers are installed in areas close to where people live and work, therefore safety, fire hazards and environmental issues are important factor to consider.



Energy Management

Energy Management System – comprising proprietary software, sensors, control modules and a Remote Management Server – is specially designed to manage and protect telecommunication sites.

The Energy Manager is a modular management platform that offers a series of features to centrally monitor and control the power generation of the base station as well as other important functions such as site security. Installed on each site it processes all incoming sensor signals from the base station's equipment (e.g. gensets, fuel tanks, and batteries), evaluates the system status and determines actions required for the network operator or the network management company. The Energy Manager interfaces easily with virtually any type of remote site equipment and sensors, which ensures maximum flexibility and scalability.

Solar Power Solution

A hybrid system is formed by combining two kinds of components that produce the same or similar results. A photovoltaic diesel hybrid system ordinarily consists of a PV system, diesel gensets and intelligent management to ensure that the amount of solar energy fed into the system exactly matches the demand at that time. Basically, the PV system complements the diesel gensets. It can supply additional energy when loads are high or relieve the genset to minimize its fuel consumption. In the future, excess energy could optionally be stored in batteries, making it possible for the hybrid system to use more solar power even at night. Intelligent management of various system components ensures optimal fuel economy and minimizes CO2 emissions.

In addition, PV systems are flexible and can be expanded on a modular basis as the energy demand grows. Compared to pure gensets systems, a photovoltaic diesel hybrid system provides numerous advantages:

- Lower fuel costs
- Reduced risk of fuel price increases and supply shortages thanks to optimized planning
- Minimal CO2 emissions (protects the environment and facilitates CO2 certificate trading)

Data Center Infrastructure Solution

Services & Support

GemNet represents industry recognized brand names and has an excellent reputation in the market based on its service and support capability. This is validated by its high profile and broad customer base and projects to date.

GemNet's products and services range and experience extends right along the power chain. A wide range of high quality products combined with a comprehensive service offering ensures the right solution is identified for its customers current and future power needs.



Areas Of Expertise

GemNet offers a wide range of services which are implemented by factory trained and certified service engineers who are qualified to provide total solutions on a nationwide basis.

We provide services at every step of a project, from detailed design to full installation. Our sales and service engineers offer pre-sales and after-sales support and advice to ensure that the correct system is selected to suit the customers' specific application and budget. All aspects including cable sizing, floor loading, battery type and autonomy, site location, access and environmental conditions are considered carefully.



Value Added Services

- Hardware Audits that include load measurements, waveform and power quality analysis, current status drawings, earthing arrangement and recommendation.
- Comparative Product Analysis and Cost Justification.
- Design of Power Distribution Network.
- Installation, testing, integration, commissioning, remote monitoring, maintenance services & site support.
- 24x7 emergency callout services.
- Post warranty service contracts adapted to meet specific customer requirements.



Spare Parts

We stock an extensive range of spares and complete units. Our engineers always carry emergency kits in order to ensure a high repair rate.

Electrical Installation

We have undertaken many large projects incorporating combined UPS (AC & DC), Stabilizer, Transformer and Energy Manager installations that include distribution panels for both new and existing systems.

Site Specific Surveys

We undertake site specific surveys for new equipment and relocation of existing systems. We offer recommendations on room layouts, distribution and effective use of floor space.



Witness Testing

Witness testing can be arranged either at our principals manufacturing plant or at customer location. We also conduct on site load bank testing.

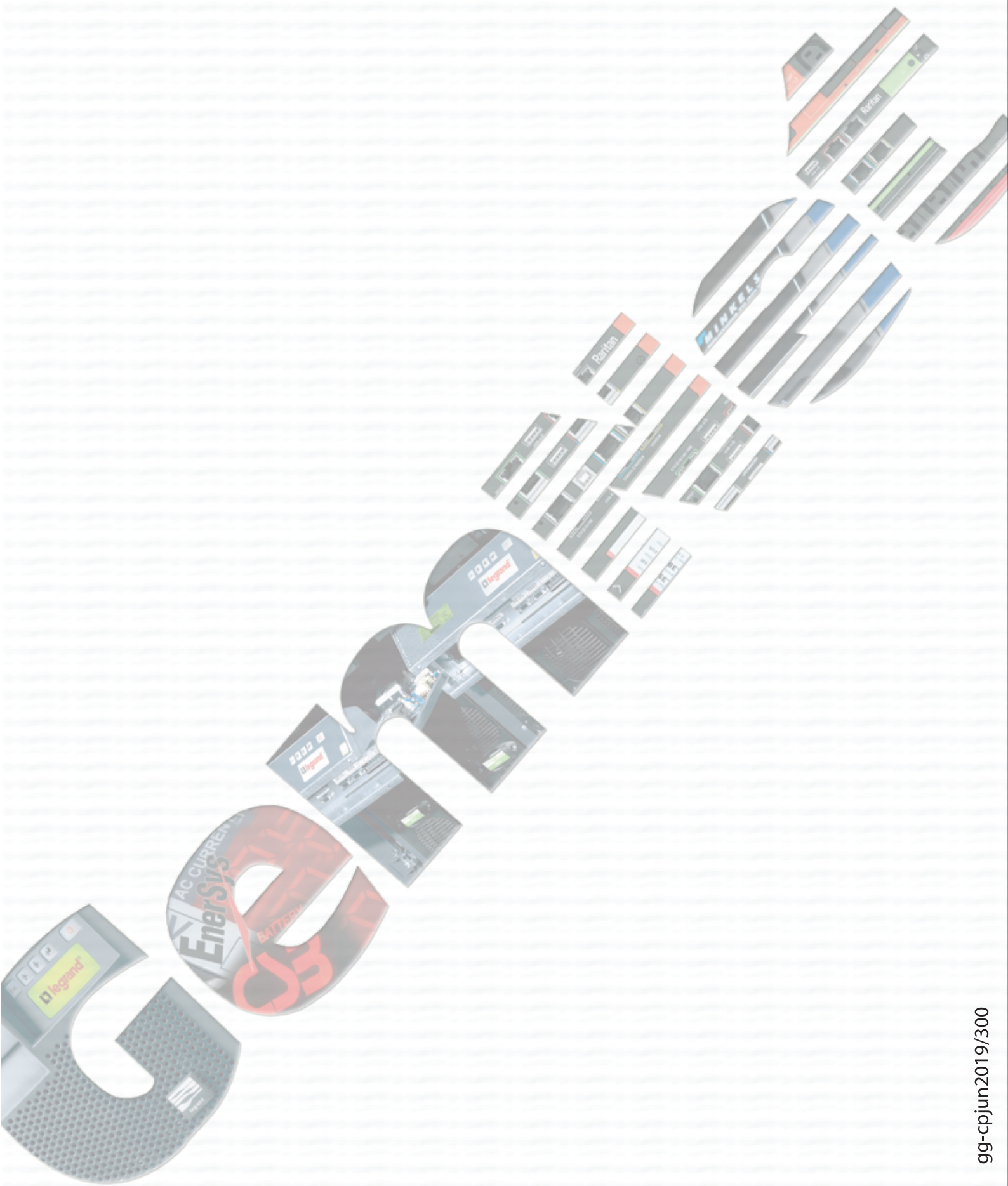
End User Training

We provide end user training that includes operation and routine maintenance of systems and the procedures to adopt in the event of a system malfunction. Basic training is conducted during or following commissioning.



Preventive Maintenance

This includes equipment cleaning, inspection of installation and operation environment, mechanical inspection, measurements and adjustment, battery condition check, system check, event log analysis and necessary action. After each maintenance visit our customers receive a full written report on the status, fault and steps undertaken.



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