For more than a century, GE has led the way with innovative technologies and groundbreaking quality initiatives – literally helping to power the world. Along the way, through the development and delivery of state-of-the-art products and uncompromising service, GE has also built a legacy as a leading supplier of critical power solutions.

To bridge the gap between the traditional utility grid and the needs of today’s business, GE offers a complete portfolio of critical power products and services, from desktop Uninterruptible Power Supply (UPS) units to engineered power systems, and from basic UPS and battery maintenance to comprehensive service contracts covering every aspect of your power quality and delivery system.

At GE, our goal is simple – to never let power quality stand in the way of our customers’ success. That’s why GE is committed to continue developing and delivering

**UPS technology for the digital world**
The power of GE

GE is a diversified technology and services company dedicated to creating products that make life better from aircraft engines and power generation to financial services, medical imaging, television programming and plastics. GE operates in more than 100 countries and employs more than 315,000 people worldwide.

The company traces its beginnings to Thomas A. Edison, who established Edison Electric Light Company in 1878. In 1892, a merger of Edison General Electric Company and Thomson-Houston Electric Company created General Electric Company. GE is the only company listed in the Dow Jones Industrial Index today that was also included in the original index in 1896.

GE is proud of its impressive track record for introducing leading edge products, accomplishing growth, having strategic customer relationships and a global presence as broad and expansive as its portfolio of products. GE is committed to maintaining a leadership position in all four of its company-wide initiatives (Six Sigma, Globalization, e-Business/Digitization and Services) to achieve maximum results, whilst embracing the values that are at the heart of the business - imagine, solve, build and lead.

UPS Product Technology

GE is a leader in the field of critical power protection. It’s UPS Product Technology business designs, manufactures and delivers premium power quality products and related software products that ensure organisations all over the world enjoy a safe and managed power supply.

Protect your critical power application with a GE UPS – ranging from 350VA to 4MVA. Using state of the art technology GE has developed different UPS with high reliability and maximum application flexibility.

With a GE power solution in place, your mission-critical equipment is protected from any fluctuation in your power source, enabling you to concentrate on your core activities. Leave your critical power needs with GE, a reliable power quality supplier for more than 100 years.
The GE Digital Energy’s LP Series provide critical power protection for many different applications.

The LP Series is easy to install and service, optimised for the office environment. The robust design is also suitable for more traditional, industrial applications. Both the power and reliability of the system can easily be expanded by adding units, creating a redundant system which has no single points of failure. This is achieved by utilising GE’s unique Redundant Parallel Architecture™ (RPA™) technology.

Designed as a true VFI (Voltage and Frequency Independent) UPS, the LP Series is an on-line double conversion, intelligent and heavy duty UPS. The VFI concept ensures the highest level of protection, even under the toughest conditions.
complete range

- **LP 11 Series**
  - Single phase input / single phase output
  - 3, 5, 6, 8, 10 kVA
  - (5-10 kVA also available with 3 phase input)
- **LP 31 Series**
  - Three phase input / single phase output
  - 8, 10, 15, 20 kVA
- **LP 33 Series**
  - Three phase input / three phase output
  - 10, 20, 30, 40 kVA

features & benefits

- Low input current distortion and high input power factor eliminates need for costly filters or oversized generator
- Small footprint and wheels
- Advanced technology enabling silent operation
- High output power factor allows for optimal sizing of UPS
- Low output voltage distortion
- Superior Battery Management
- ECO mode enables automatic energy savings under stable power conditions

superior battery management

- Automatic battery test, prevents “surprises”
- Battery calibration test, enables tracking of battery aging
- Temperature compensation, prevents overcharging
- Load dependent end-of-discharge voltage and no load shutdown prevents deep discharge of batteries
  - No surprises
  - Prevents damage
  - Extends life time of batteries

full functionality

- Multi-language LCD, easy to use
- Excellent overload behaviour, withstands toughest conditions
- Cold start function (start-up without mains present)
- Manual bypass integrated in UPS
- Equipped with RS232 serial port
- Fits well in office environment
- Frequency converter

applications

- Computer and data centres
- Call centres
- Manufacturing and process control units
- Medical equipment and healthcare facilities
- Transportation infrastructure
- Security systems
- Financial institutions
- Fixed and mobile voice and data transmission

options

- SNMP plug in card for integration into networks
- Potential free alarm contacts
- Matching battery packs for extended back up times
- Redundant Parallel Architecture™

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**Image:**

- A photograph of an UPS system.
- The system appears to be a modular design with multiple components stacked vertically.
- The front panel displays various indicators and control buttons.
- The device is labeled with prominent branding.
GE provides a unique technology called Redundant Parallel Architecture (RPA) that can parallel Uninterruptible Power Supply (UPS) modules with true redundancy. With RPA, there is no need for external electronics or switches to control the UPS modules in the parallel system. One of the UPS modules in the system arbitrarily takes a leadership role, while the other UPS modules have access to all control parameters. If one UPS fails to operate, the load is automatically redistributed among the others. If the lead UPS fails to operate then a different UPS automatically takes on the leadership role. The RPA systems are designed to have no single points of failure, ensuring the highest level of power protection for critical loads.

Many other so-called redundant UPS offerings have one critical shortfall, in that they have critical components that are not redundant. RPA technology provides complete redundancy of all critical components and there are no single points of failure. RPA technology allows UPS system expansion not only to increase capacity but also to improve the reliability of the power provided to critical loads. For mission critical applications, RPA technology provides true redundancy for the highest reliability.

- **RPA Configuration** provides complete redundancy of all critical components and allows paralleling of up to four units for increased load capacity. It ensures excellent dynamic behaviour based on output voltage load sharing. This provides the highest reliability and availability for mission-critical applications.

- **Easy to install and maintain**

- **Scaleable design allows for efficient use of capital**

- **Peer-to-Peer architecture** where any UPS can be the “logic leader” ensuring no single points of failure.

- **Modular design** allows for system upgrades to meet future power needs without any interruption to the critical load or transfer to bypass.
Connectivity solutions
GE Data Protection

Power Diagnostics

With GE’s Power Diagnostics it is possible to combine the remote monitoring and diagnostic core product IRIS web and dedicated services in a comprehensive solution to minimize risk and maintenance costs. 24x7 UPS monitoring, regular operational status reports, immediate alerting for alarms and critical events via SMS, e-mail, fax are just some of the characteristics of the RM&D solution. In particular the system is scalable and can be easily adapted to various configurations, while remaining safe through a multi-level security system.

Features

Data transmission
• Data download from GE UPS and 3rd party UPS, via IRIS communication, to GE power diagnostic centre
• Data collection of status values, settings and alarm & event logs
• Alarms and other critical events will be submitted automatically on event, all other values on a regular base (standard weekly) on a regular base or immediately on your request.

Data analysis
• Analysis of available data downloaded from UPS
• Analysis of critical situations, identifying critical trends
• Validating importance and priorities
• Generating status reports
• Preparing maintenance recommendation based on data analysis

Emergency information
• Informing customer about critical situation and faults
• Data are transmitted automatically from UPS to GE power diagnostic centre

E-Dispatching, intervention
• Send emergency information to local service organisation
• Co-ordination with client to inform that people arrive onsite
• Local service teams will be activated and sent to client site

IRIS offers various communication possibilities: analogue modem, GPRS or SNMP communication, flexible for every requirement.

Analogue/ISDN modem
• Efficient solution without GPRS functionality using InterLink 2.0 analogue
• Can be connected to the UPS during normal UPS operation without any risk
• Less installation time due to an integrated modem

GPRS
• The best and most efficient solution using InterLink 2.0 GPRS
• Can be connected to the UPS during normal UPS operation without any risk
• Ready to work after connection to UPS and mounting of antenna and power supply
• Best solution where only a small number of UPS are installed on the same site

SNMP gateway server
• Efficient solution for several UPS on the same site or connected with the same Intranet over SNMP
• Using existing customer intranet and requires an internet connection
• SNMP gateway server will be installed locally to communicate with SNMP cards of UPS
• Secure communication over VPN
## Technical Specifications

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* = LP-11/ LP-31T respectively  
** = Superior Battery Management

### Enclosures (h x w x d, mm)

- **A**: 537 x 313 x 590  
  - **B**: 855 x 313 x 590  
  - **C**: 680 x 313 x 720  
  - **D**: 995 x 313 x 720  
  - **E**: 1190 x 410 x 890  
  - **F**: 1310 x 500 x 780  
  - **G**: 1310 x 660 x 780  

LPX-11 = Single phase in/single phase out  
LPX-31 = Three phase in/single phase out  
LPX-33 = Three phase in/three phase out  

X = kVA rating  
T = Transformer

Specifications subject to change without prior notice

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