GE Consumer & Industrial
Electrical Distribution

The Digital Energy™ LP33 Series is a robust, high-performance UPS system that provides power protection for a wide range of mission-critical applications. Every LP33 Series unit operates in a double conversion mode with true continuous on-line VFI (voltage and frequency independent) operation yielding maximum levels of power protection even under the toughest conditions. In addition, the LP33 UPS is a high efficiency design with low THD (total harmonic distortion) which takes up less space and is easy to install and service, especially in an office environment. Its robust design makes it suitable for traditional industrial applications as well.

To achieve redundancy or to increase power capacity, GE's unique **Redundant Parallel Architecture™ (RPA™)** technology enables the LP33 Series to parallel up to four units in a flexible and cost effective manner. In the RPA system, every UPS is controlled in a true peer-to-peer configuration with redundancy in all critical elements and functions. This advanced technology provides the highest possible system reliability for mission critical applications, eliminating any single points of failure associated with other types of UPS systems. The RPA system precisely synchronizes the output phase and automatically shares the load supported by each of the UPS.

Through their complete life cycle, every GE UPS system is fully supported by **GE's Global Services** team, which provides world-class, 7x24 preventive and corrective services, training and application expertise.

LP33 Series Features

- **High input power factor** (.98) and **low input distortion** (<10%) prevents disturbances to other electrical equipment, thus eliminating the need for costly filters or over-sized feeders
- **Compact footprint**, easily transportable, robustly designed system with low audible noise suitable for both office and industrial environments
- Utilizes high-frequency PWM (Pulse Width Modulation) IGBT digital control technique resulting in extremely **low output distortion** and **fast transient response,** eliminating the need for over-sizing the UPS
- **Intelligent Energy Management™ (ECO-mode)** enables automatic energy savings under stable power conditions
- **Redundant Parallel Architecture™ (RPA™)** increases system reliability by eliminating single points of failure without increasing overall system complexity
- **Superior Battery Management (SBM)** enhances battery lifetime resulting in reduced cost of operation

Applications

- Mission Critical Servers
- Medical Equipment
- ATM / Frame Relay Switches
- Banking Systems
- Telecoms / PABX

Digital Energy™ LP33 Series

3 Phase 30-40 kVA Uninterruptible Power Supply

Benefits

Transformerless design for smaller footprint, less weight and better efficiency

Robustly designed to handle **short-circuit, high overload and over-heating** conditions, thus reducing maintenance and service costs

LP33 **High Crest Factor** (3:1) capability makes it ideal for computer loads while eliminating the need to oversize the UPS

Very wide AC-input voltage capability minimizing the need to switch to batteries, which results in increased battery life

Integrated **internal manual maintenance bypass** reduces the need for external equipment

Fully compliant with North American standards for VFI (UL, CUL 1778) operation providing full power protection for demanding critical applications

Internal batteries are standard to maximize operational footprint. Additional external battery cabinets available for extended runtime requirements

Every GE UPS can be monitored and managed via LAN, serial/modem connection or through the Internet

UPS management software facilitating operation and maintenance of the UPS

Three available slots for options such as: SNMP plug-in card, potential-free relay contacts, RPA and RS232/contact interface, providing maximum flexibility

Matching battery cabinets for expanded backup times

Technical Specifications-UL approved

Models	LP30-33U	LP40-33U
Rating (kVA/kW)	30 / 24	40 / 32
Backup Time @ 50% / 100% loads		
33Ah	22 / 10 min.	15 / 8 min.
55Ah	40 / 19 min.	25 / 12 min.
Enclosure (Table 1)	B	B
Net Wgt Incl. Batteries (lbs)	1335 - 1621	1379 - 1665
Input Voltage (VAC)		
Nominal (V)	208	
Range @ 100% Load (V)	166 - 239	
Range @ 50% Load (V)	149 - 239	
Input Power Factor	> 0.98	
Input Frequency (Hz)	54 - 66	
Output Voltage (VAC) (sinusoidal)	208	
Output Frequency (Hz)	50 / 60	
Output Voltage Regulation	+/- 1%	
Output THD at Linear Load	< 1.5%	< 2%
Output THD at Non-linear Load	< 3%	
Crest Factor Handling Capacity of a Non-linear Load	3 : 1	
Overload Capability on Inverter	125% 10 min., 150% 1 min.	
Communications Interface	RS232, Plug and Play, open collector alarm contacts, ModBus RTU interface	
Color	Front bezel: Aluminum Grey (RAL9006); Cabinet: Pure White (RAL9010)	
Environment	IP20 (IEC 60529) and NEMA-PE-1	
Operating Temperature / Humidity	32° F - 104° F (0° C - 40° C) / 95% Non-condensing (Battery: 68° F - 77° F recommended)	
Audible Noise	50-62 dBA - 3.3 feet (1 meter) - load and temperature dependent	
Safety Classifications & Listings	UL, C-UL: UL1778; CE: IEC 62040, ISO 9001	
EMI	FCC Part 15 Class A / IEC 62040-2, Class A	
Surge Protection	IEC 1000-4-5 (6kV 1.2/50 µsec – 3kA 8/20 µsec) IEEE 587 B, EN 50091-2	
Standard Connectivity	RS232; programmable alarm contacts; SNMP (optional)	
Warranty	24 months	

Specifications subject to change without notice.

Table 1	Height	Width	Depth
inches (cm)			
Enclosure B	71.7 (182.0)	40.55 (103.0)	29.61 (75.2)

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imagination at work