



LP-11U Series Uninterruptible Power Supply (UPS)

5-10kVA



Overview

The LP-11U Series is a robust, high-performance UPS system that provides power protection for a wide range of mission critical applications. Every LP-11U Series unit operates in a double conversion mode with true on-line VFI (voltage and frequency independent) operation, yielding maximum levels of power protection even under the toughest conditions. In addition, the LP-11U Series UPS is easy to install and service, especially in an office environment. The robust design makes it suitable for industrial applications as well.

To achieve redundancy or to increase power capacity, GE's unique Redundant Parallel Architecture™ (RPA™) technology enables the LP-11U Series to parallel up to four (4) 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 commonly found in other types of UPS systems. The RPA™ system precisely synchronizes the output phase and automatically shares the load supported by each of the UPS.

Every GE UPS system is fully supported by GE's Global Services team, providing world-class, 7x24 preventive and corrective services, training and application expertise.

Advantages

- High input power factor (.99) and low input distortion (<10%) prevents disturbances to other electrical equipment, eliminating the need for costly filters or oversized feeders
- Compact footprint, easily transportable, robustly designed system with low audible noise
- Fully isolated output, provides additional critical power protection
- Utilizes high-frequency PWM(Pulse Width Modulation) digital control technique, resulting in extremely low output distortion and fast transient response, eliminating the need to oversize the UPS

- ECO-mode enables automatic energy savings under stable power conditions
- Superior Battery Management (SBM) enhances battery life and reduces cost of operation
- Very wide AC-input voltage and frequency capability minimizes the need to switch to batteries, resulting in increased battery life
- High Crest Factor (5:1) capability ideal for computer loads
- Integrated internal manual maintenance bypass reduces the need for external equipment
- Robustly designed to handle short-circuit, high overload and overheating conditions, reducing maintenance and service costs
- Fully compliant with North American standards for VFI (UL, cUL 1778) operation, providing full power protection for demanding, critical applications

Options

- Remote monitoring and diagnostics via LAN or internet
- UPS management software facilitates operation and maintenance of the UPS
- Input and output PDU available for 5-10kVA sizes
- Dual AC input option
- Additional external matching battery cabinets are available for extended runtime requirements (Contact the factory for details)
- Three available slots for options:
 - SNMP plug-in card, potential-free relay contacts
 - RPA™ Kit: Any single UPS can be easily field-configured for Redundant Parallel Architecture™
 - RS-232/contact interface, providing maximum flexibility

Technical Specifications - UL Approved

GENERAL	LP-11U - 5	LP-11U - 5 (120V)	LP-11U - 6	LP-11U - 6 (120V)	LP-11U - 8	LP-11U - 10
Rating	5000VA / 4000W	5000VA / 4000W	6000VA / 4800W	6000VA / 4800W	8000VA / 6400W	10,000VA / 8000W
High Efficiency	91% - 94% (model dependent) - Using ECO mode, high efficiency and low losses					
Backup Time - @ 50% Load - @ 100% Load	25 min. 10 min.	25 min. 10 min.	20 min. 8 min.	20 min. 8 min.	29 min. 11 min.	22 min. 8 min.
Enclosure (Table 1)	A	B	A	B	A	A
Net Wgt Incl. Batteries (kg/lbs)	134 kg / 295 lbs	175 kg / 386 lbs	134 kg / 295 lbs	175 kg / 386 lbs	175 kg / 386 lbs	186 kg / 410 lbs

INPUT	LP-11U - 5	LP-11U - 5 (120V)	LP-11U - 6	LP-11U - 6 (120V)	LP-11U - 8	LP-11U - 10
Nominal Voltage	208V	120V	208V	120V	208V	208V
Voltage Range - @ 100% Load - @ 50% Load	162 - 285V 146 - 285V	81 - 141V 72 - 141V	162 - 285V 146 - 285V	81 - 141V 72 - 141V	162 - 285V 146 - 285V	162 - 285V 146 - 285V
Power Factor	.99					
Frequency	40 - 70Hz					

OUTPUT	LP-11U - 5	LP-11U - 5 (120V)	LP-11U - 6	LP-11U - 6 (120V)	LP-11U - 8	LP-11U - 10
Power Factor	.8					
Voltage (sinusoidal)	120 + 208 + 220VAC / 230VAC / 240VAC User Selectable					
Frequency	50 / 60Hz (Selectable)					
Overload Capability on Inverter	110% 20 min., 130% 3.5 min., 150% 2 min.					
Voltage Regulation	+/- 1%					
THD - Linear Load - Non-linear Load	< 1% < 2%					
Crest Factor Handling Capacity of a Non-linear Load	5 : 1					

Technical Specifications - UL Approved (Cont.)

ENVIROMENTAL	LP-11U - 5	LP-11U - 5 (120V)	LP-11U - 6	LP-11U - 6 (120V)	LP-11U - 8	LP-11U - 10
Environment Protection	IP20 (IEC 60529 & DIN 40050)					
Operating Temperature / Humidity – UPS	14° F - 104° F (-10° C - 40° C) / 95% Non-condensing					
Audible Noise	40-50 dBA - 3.3 feet (1 meter)					

SAFETY AND STANDARDS COMPLIANCE	LP-11U - 5	LP-11U - 5 (120V)	LP-11U - 6	LP-11U - 6 (120V)	LP-11U - 8	LP-11U - 10
Safety Classifications & Listings	UL, cUL 1778; EN50091-1-1; EN 60950; IEC 62040-1					
EMI	FCC Part 15 Class A / EN50091-2, IEC / EN 62040-2 Class A					
Surge Protection	IEC 61000-4-5 (6kV 1.2 / 50 µsec – 3kA 8 / 20 µsec) IEEE 587 B, EN 50091-2					
Connectivity	RS-232; programmable alarm contacts (optional); SNMP (optional)					
Warranty	24 months after seller's shipment to customer *					

* Extended Warranties available

Table 1

ENCLOSURE	ENCLOSURE A	ENCLOSURE B
Height	26.8" (68 cm)	39.2" (99.6 cm)
Width	12.3" (31.2 cm)	12.3" (31.2 cm)
Depth	28.7" (72.9 cm)	28.7" (72.9 cm)
Color	Front bezel: Aluminum Grey (RAL 9006); Cabinet: White (RAL 9003)	

On-Site & Emergency Services

- 24/7 Emergency Hotline

Spare Parts

- Spare Part Kits
- Product Replacement / Return
- Equipment Rentals
- Battery & Capacitor Replacements

Contractual Services

- Maintenance Service Contracts
- Remote Monitoring & Diagnostics
- Technical Services

Training

- Training for Operators
- Training for Maintenance Staff
- Product Training
- Web-Based Training

Training

GE offers on-site and classroom training options based on certification curriculum. Technical training can be tailored to individual customer needs. Training enables customers and partners to more effectively manage and support the power infrastructure. We have built our training program on practical learning objectives that are relevant to specific technologies or infrastructure design objectives.

Service & Support

GE field service and support personnel are trusted advisors to our customers – always available to answer questions and help with any project, large or small. Our certified professional services team consists of experts in every aspect of power conversion with the resources and experience to handle large turnkey projects along with custom approaches to complex challenges. Proven systems engineering and installation best practices are designed to safely deliver results that exceed our customers' expectations.

Warranty

GE is committed to providing quality products and solutions. We have developed a comprehensive warranty that protects you and provides a simple way to get your products repaired or replaced as soon as possible.

For full warranty terms and conditions please go to www.gecriticalpower.com.

