

## Symmetra LX

### **APC Symmetra LX 12kVA Scalable to 16kVA N+1 Ext. Run Tower, 208/240V Input, 208V /240V and 120V Outp**



APC Symmetra LX, 9600 Watts / 12 kVA, Input 208V / Output 120V, 208V, Interface Port DB-9 RS-232, Smart-Slot, Extended runtime model

**Includes:** CD with software, Documentation CD, Installation guide, User Manual, Web/SNMP Management Card

**Standard Lead Time:** Usually in Stock

# Symmetra LX Features & Benefits

## Availability

Modular design	Provides fast serviceability and reduced maintenance requirements via self-diagnosing, field-replaceable modules.
Configurable for N+1 internal redundancy	Provides high availability through redundancy by allowing configuration with one more Power Module than is necessary to support the connected load.
Redundant Intelligence Modules	Provides higher availability to the UPS connected loads by giving redundant communication paths to critical UPS functions.
Hot-swappable intelligence modules	Ensures clean, uninterrupted power to protected equipment during Intelligence Module replacement.
Hot-swappable power modules	Ensures clean, uninterrupted power to protected equipment during Power Module replacement.
Hot-swappable batteries	Ensures clean, uninterrupted power to protected equipment while batteries are being replaced
Power Modules connected in parallel	Enhances availability by allowing immediate, seamless recovery from isolated module failures.
Battery modules connected in parallel	Delivers higher availability through redundant batteries.
Automatic internal bypass	Supplies utility power to the connected loads in the event of a UPS overload condition or fault.
Automatic restart of loads after UPS shutdown	Automatically starts up the connected equipment upon the return of utility power.

## Adaptability

Scalable power capacity	Reduces UPS over-sizing costs today by allowing quick upgrades later.
Scalable runtime	Allows additional run time to be quickly added as needed.
Plug-and-Play external batteries	Ensures clean, uninterrupted power to the loads when adding extra runtime to the UPS.
Rack/Tower convertible	Protects the initial investment in the UPS when migrating from tower to rack-mount environment.
Field-replaceable power distribution panel	Ensures compatibility with equipment that has different plug types.
Programmable frequency	Ensures compatibility with different input frequencies.

## Manageability

Manageable external batteries	Reduces preventative maintenance service needs by monitoring the health and status of the external batteries and their expected runtime.
Network manageable	Provides remote management of the UPS over the network.
InfraStruXure Manager Compatible	Enables centralized management via the APC InfraStruXure® Manager.
LCD display	Alpha-Numeric Display which displays system parameters and alarms.
Intelligent Battery Management	Maximizes battery performance, life, and reliability through intelligent, precision charging.
SmartSlot	Customize UPS capabilities with management cards.

## Serviceability

Shippable with modules installed	Enables pre-installation UPS staging and testing and faster installation.
Predictive failure notification	Provides early-warning fault analysis ensuring proactive component replacement.
Automatic self-test	Periodic battery self-test ensures early detection of a battery that needs to be replaced.
Audible Alarms	Actively let you know if the unit is on battery, if the battery is low or if there is an overload condition.
User-replaceable intelligence modules	Enables simple upgrades and replacements of the Intelligence Modules.
User-replaceable power modules	Enables simple upgrades and replacements of the Power Modules.
User-replaceable batteries	Increases availability by allowing a trained user to perform upgrades and replacements of the batteries reducing Mean Time to Repair (MTTR)
Disconnected battery notification	Warns when a battery is not available to provide backup power.
Removable input/output wiring tray	Allows quick and easy installation and maintenance of the UPS.
<b>Protection</b>	
Power conditioning	Protects connected loads from surges, spikes, lightning, and other power disturbances.
Frequency and voltage regulation	Gives higher application availability by correcting poor frequency and voltage conditions without using the battery.
Input power factor correction	Minimizes installation costs by enabling the use of smaller generators and cabling.
Generator Compatible	Ensures clean, uninterrupted power to the loads in the event of an extended power outage
Cold-start capable	Provides temporary battery power when the utility power is out.
Resettable circuit breakers	Enables a quick recovery from overload events.
Safety-agency approved	Ensures the product has been tested and approved to work safely with the connected service provider equipment and within the specified environment. UL, FCC, CE, C-Tick approvals.

# Output

Output Power Capacity	9600 Watts / 12 kVA
Max Configurable Power	12.8 kW / 16 kVA
Nominal Output Voltage	120V,208V
Output Voltage Note	Configurable for 120/208 or 120/240 output voltage
Output Voltage Distortion	Less than 5% at full load
Output Frequency (sync to mains)	47 - 63 Hz
Crest Factor	up to 5 : 1
Waveform Type	Sine wave
Output Connections	(1) Hard Wire 4-wire (2PH + N +G)
Bypass	Internal Bypass (Automatic and Manual),Optional External Bypass

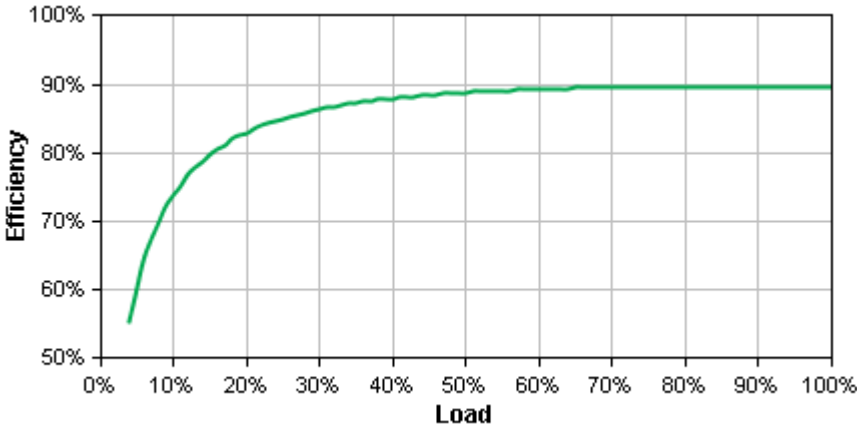
# Input

Nominal Input Voltage	208V
Input Frequency	45 - 65 Hz (auto sensing)
Input Connections	Hard Wire 4-wire (2PH+N+G)
Input voltage range for main operations	96 - 138 (Line to Neutral)V
Other Input Voltages	240V

# Batteries & Runtime

Battery Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof
Included Battery Modules	9
Available Battery Slots	4
Typical recharge time	7.50 hour(s)
Replacement Battery	<a href="#">SYBT5</a>
Typical Backup Time at Half Load	66.9 minutes (4800 Watts)
Typical Backup Time at Full Load	30.1 minutes (9600 Watts)
Runtime Chart	<a href="#">Symmetra LX</a>
Extended Run Options	<a href="#">APC Symmetra LX 12kVA Scalable to 16kVA N+1 Ext. Run Tower, 208/240V Input, 208V /240V and 120V Outp</a>

# Energy Use/Efficiency



Curve fit to measured efficiency data. All measurements taken in normal operating mode, at typical environmental conditions, with nominal electrical input and resistive load output.

[View Enlarged Chart](#)

# Communications & Management

Interface Port(s)	DB-9 RS-232,Smart-Slot
Available SmartSlot™ Interface Quantity	1
Pre-Installed SmartSlot™ Cards	<a href="#">AP9619</a>
Control panel	Multi-function LCD status and control console
Audible Alarm	Audible and visible alarms prioritized by severity
Emergency Power Off (EPO)	Yes

# Physical

Maximum Height	1516.00 mm
Maximum Width	483.00 mm
Maximum Depth	726.00 mm
Net Weight	488.64 KG
Shipping Weight	520.46 KG
Shipping Height	1880.00 mm
Shipping Width	599.00 mm
Shipping Depth	997.00 mm
Color	Black,Silver
Units per Pallet	1.00

# Environmental

Operating Environment	0 - 40 °C
Operating Relative Humidity	0%
Operating Elevation	0-3000 meters
Storage Temperature	-15 - 45 °C
Storage Relative Humidity	0%
Storage Elevation	0-4500 meters
Audible noise at 1 meter from surface of unit	62.00 dBA
Online Thermal Dissipation	4995.00 BTU/hr

# Conformance

Regulatory Approvals	CSA,FCC Part 15 Class A,UL 1778
Standard Warranty	2 years repair or replace

\*\*The time to recharge to 90% of full battery capacity following a discharge to shutdown using a load rated for 1/2 the full load rating of the UPS.