

## Symmetra LX

### **APC Symmetra LX 16kVA Scalable to 16kVA N+1 Rack-mount, 208/240V Input, 208/240V and 120V Output**



APC Symmetra LX, 12.8 kW / 16 kVA, Input 208V / Output 120V, 208V, Interface Port DB-9 RS-232, Smart-Slot, Extended runtime model, Rack Height 19 U

**Includes:** CD with software, Documentation CD, Installation guide, Rack Mounting support rails, Temperature Probe, 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.  |

## Protection

|                                  |  |
|----------------------------------|--|
| 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            | 12.8 kW / 16 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)<br>(4) NEMA L14-30R<br><br>(8) NEMA L5-20R |
| 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         | 4  |
| Typical recharge time            | 3 hour(s)  |
| Replacement Battery              | <a href="#">SYBT5</a>  |
| Typical Backup Time at Half Load | 17.1 minutes (6400 Watts)  |
| Typical Backup Time at Full Load | 6.0 minutes (12800 Watts)  |

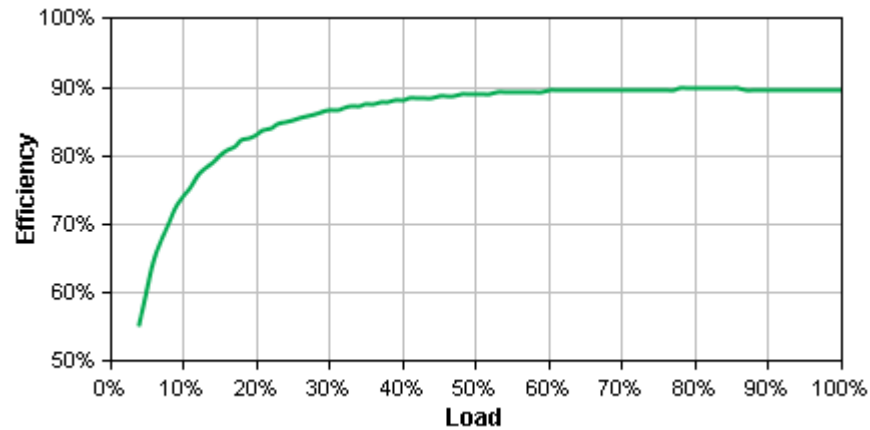
Runtime Chart

[Symmetra LX](#)

Extended Run Options

[APC Symmetra LX 16kVA Scalable to 16kVA N+1 Rack-mount, 208/240V Input, 208/240V and 120V Output](#)

## 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  | 836.00 mm  |
| Maximum Width   | 472.00 mm  |
| Maximum Depth   | 688.00 mm  |
| Rack Height     | 19U        |
| Net Weight      | 286.82 KG  |
| Shipping Weight | 340.45 KG  |
| Shipping Height | 1054.00 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.