Technical Specifications	8/12/16KVA 208V TOWER	4/8KVA 208V TOWER	8/12/16KVA 208V RM	4/8KVA 208V RM	8/12/16KVA 230V TOWER	4/8 KVA 230V TOWER	8/12/16KVA 230V RM	4/8KVA 230V RM
OUTPUT								
Capacity	3.2kW/4kVA per module				2.8kW/4kVA per Module			
Output Voltages	120/208				230			
Available Output voltage	120/240				220,240			
Efficiency at Full Load	90%							
Bypass	Internal Bypass (Automatic and Manual)							
Full Load Output Voltage Distortion	Less than 5% at full Load							
Output Frequency Sync to Mains	47–63 Hz							
Output Freq Not Sync	60Hz +/- 0.1% for 60Hz nominal				50Hz +/- 0.1% for 50Hz nominal			
Load Crest factor	up to 5 :1							
INPUT								
Output Connections	Hardwire 4 Wire (2PH + N + G)		(4) L14-30R & (8) L5-20R & hardwire 4 wire (2ph +n + g)	(2) L14-30R & (4) L5-20R & hardwire 4 wire (2ph + n +g)	Hardwire (3-wire, 1PH+N+G)		(8) IEC 320 C13 & (10) IEC320 C19	
Input Voltage	208,240				230 or 400 (3PH)			
Input Connection	Hardwire 4 Wire (2PH + N + G)				Hardwire (3-wire, 1PH+N+G) or (5-wire, 3PH + N+G)			
Input Frequency	45 – 65 Hz							
Input Voltage Range at Full Load with Batteries Charging	166–276				155–276/290-480			
Input Power Factor	max. .98 @ full load				max. .98 @ full load			
BATTERY								
Type	Maintenance-free sealed Lead-Acid battery with suspended electrolyte : leakproof							
Typical Recharge time	3 Hours[1]							
Estimated Runtime Half Load	17 Mins. (Extended Run Tower: 8KVA – 106, 12KVA – 67, 16KVA – 48)				20 Mins. (Extended Run Tower: 8KVA – 123, 12KVA – 77, 16KVA – 55)			
Estimated Runtime Full Load	6 Mins. (Extended Run Tower: 8KVA – 49, 12KVA – 30, 16KVA – 21)				7.5 Mins. (Extended Run Tower: 8KVA – 57, 12KVA – 35, 16KVA – 25)			
Extended Runtimes	All standard models accept up to seven (7) external battery enclosures [extended run tower models accept up to six (6)]. Refer to www.apc.com for specific runtime information.							
COMMUNICATION								
Control Panel	Multi-function LCD status and control console							
Audible Alarms	Alarm when on battery : distinctive low battery alarm : configurable delays							
Included Software	PowerChute Network Shutdown; Web/SMNP Management Card installed							
Interface Port	DB-9 RS-232; RJ-45 10/100 Base T (Network Management Card); 2 SmartSlots							
EPO	Standard							
PHYSICAL								
# of Power Modules Shipped with Unit	8KVA-2; 12KVA-3 16kVA-4	4KVA-1 8KVA -2	8KVA-2; 12KVA-3 16kVA-4	4KVA-1 8KVA -2	8KVA-2; 12KVA-3 16kVA-4	4KVA-1 8KVA -2	8KVA-2; 12KVA-3 16kVA-4	4KVA-1 8KVA -2
# of Empty Power Modules Slots	8KVA-3; 12KVA-2; 16kVA-1	4KVA-2 8KVA -1	8KVA-3; 12KVA-2 16kVA-1	4KVA-2 8KVA -1	8KVA-3; 12KVA-2 16kVA-1	4KVA-2 8KVA -1	8KVA-3; 12KVA-2 16kVA-1	4KVA-2 8KVA -1
Net weight (lbs)**	677[3]	444	631	392	677[3]	444	631	392
Shipping Weight (lbs)**	743[4]	505	265	215	743[4]	505	265	215
Dimensions H × W × D	36.9 × 19 × 28.6 in[5]	26 × 19 × 28.6 in	33 × 18.6 × 27.1 in	22.5 × 18.6 × 27.1in	93.73×48.26×72.64 cm[6]	66.04×48.26 × 72.64 cm	83.51 ×47.24×68.83 cm	57.15 ×47.24× 68.83 cm
Shipping H × W × D	46.5 × 23.6 × 39.25 in[7]	36 × 23.6 × 39.25 in	41.5 × 23.6 × 39.25 in	31 × 23.6 × 39.25 in	118.11 × 59.94 × 99.7cm[8]	91.44 × 59.94 × 99.7 cm	105.41 × 59.94 ×99.7 cm	78.74 × 59.94 × 99.7 cm
U height	19U[7]	13	19	13	19U[9]	13U	19U	13U
ENVIRONMENT								
Audible	62 dB							
Thermal Output BTU/HR Normal Mode	4995	3,485	4,995	3,485	4995	2762	3707	2762
Operating Temp C and F	0 to 40°C							
Operating Relative humidity	0 to 95% non-condensing							
Operating Elevation	0 to 10000 feet							
Storage Temp	-15 to 45°C							
Storage Relative Humidity	0 to 95% non-condensing							
Storage Elevation	0 to 15000 feet							
CONFORMANCE								
Regulatory	UL 1778; CSA107.1,FCC Class A				VDE, CE, EN50091-2, C-tick, GOST			
Warranty	2 years							

[1] 7.5 hours for Extended Run Tower Unit
[2] (9) SYBT5 for Extended Run Tower Unit
[3] 1397 for Extended Run Tower Unit
[4] 1467 for Extended Run Tower Unit
[5] 59.7 × 19 × 28.6 in for Extended Run Tower Unit
[6] 151.64 × 48.26 × 72.64cm for Extended Run Tower Unit
[7] 74 ×23.6 ×39.25 in
[8] 187.96 ×59.94 ×99.7cm
[9] 32U for Extended Run Tower Unit

Symmetra® LX

High-performance redundant power protection with scalable power and runtime for IT and telecommunications equipment

Engineered to deliver the highest level of business continuity possible, the Symmetra® LX uses a modular, redundant architecture that can scale power and runtime as demand increases or when higher levels of availability are required. Advancements in this next generation design greatly decrease footprint or U-space needed in an equipment rack, increase speed and ease of deployment and reduce repair time. With built-in network manageability and a comprehensive portfolio available from 4-16 kVA N+1, the on-line Symmetra LX is the choice to protect high-performance IT and telecommunications equipment in computer rooms and small data centers.

APC's quality system is certified by ISO 9002 standards

NIR ISO14001 REGISTERED COMPANY

For more information call:
Tel: 800 800 4APC - US & Canada
Tel: 401 789 0204 - World wide

APC Corporate
APC North America
132 Fairgrounds Road
West Kingston, RI
02892 USA
Call: 800 800 4APC
Fax: 401 789 3710

APC Latin America
5301 Blue Lagoon Drive
Suite #610
Miami, FL 33126 USA
Call: 305 266 5005
Fax: 305 266 9695

APC Europe
APC Ireland
Ballybrit Business Park
Galway, Ireland
Call: +353 91 702000
Fax: +353 91 756909

APC Asia Pacific
APC Australia
Level 13 The Denison
65 Berry Street
North Sydney, NSW 2060
Call: +61 2 9955 9366
Fax: +61 2 9955 2844

Visit: *www.apc.com*
E-mail: apcinfo@apc.com
Web Support: :support. apc.com
PowerFax™: 800-347-FAXX

APC Legendary Reliability®

APC Legendary Reliability®

 PART# 996-2852A

Symmetra® LX Features and Benefits

AVAILABILITY

Modular design Provides fast serviceability and reduced maintenance requirements via self-diagnosing, hot-swappable, and 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 Provide higher availability to the UPS connected loads by giving redundant communication paths to critical UPS functions.

Hot-swappable batteries, power modules, and intelligence modules Ensure clean, uninterrupted power to protected equipment during Intelligence Module replacement.

Power modules connected in parallel Enhance availability by allowing immediate, seamless recovery from isolated module failures.

Battery modules connected in parallel Deliver 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.

ADAPTABILITY

Scalable power capacity Reduces UPS over-sizing costs today by allowing quick upgrades later.

Scalable runtime Allows quick addition of more runtime when needed.

Plug-and-Play external batteries Ensure clean, uninterrupted power to the loads when adding extra runtime to the UPS.

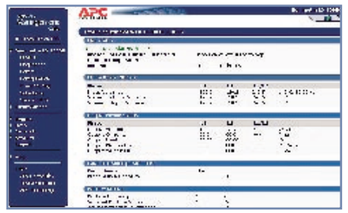
Rack/Tower convertible Protects the initial investment in the UPS when migrating from tower to rack-mount environment.

Field-replaceable power distribution panel Ensures compatibility with equipment that has different plug types.

Programmable frequency Ensures compatibility with different input frequencies.

MANAGEABILITY

InfraStruXure Manager Compatible Enables centralized management via APC's InfraStruXure Manager.



Network manageable Provides remote management of the UPS over the network.

LCD display Manage the UPS locally through a text-based display that allows quick diagnosis via stored alarm conditions and events.

Manageable external batteries Reduces preventative maintenance service needs by monitoring the health and status of the external batteries and their expected runtime

Intelligent battery management Provides higher availability through intelligent precision-charging that maximizes battery performance, life, and reliability.

SmartSlot Customize UPS capabilities with management cards.

SERVICEABILITY

Predictive failure notification Provides early-warning fault analysis, ensuring proactive component replacement.

Automatic self-test Ensures early detection of potential problems through periodic testing of UPS components.

Audible alarms Provides notification of changing utility power and UPS conditions.

Shippable with modules installed Enables pre-installation UPS staging, testing and faster installation.

User-replaceable intelligence modules Enable simple upgrades and replacements of the intelligence modules.

User-replaceable power modules Enable simple upgrades and replacements of the power modules.

User-replaceable batteries Enable simple upgrades and replacement of the Batteries.

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 Preserves battery life and maximizes runtime by correcting poor frequency and voltage conditions without discharging 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 Enable quick recovery from UPS overload events.

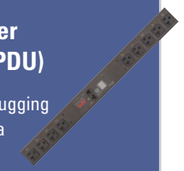
Safety-agency approved Ensures product testing and approval to work safely with the connected loads and within the environment.

OPTIONS

External Battery Enclosures

Scalable, hot-installable design for long runtime needs in a small footprint; rack and tower models available

Metered Rack Power Distribution Units (PDU)



Different versions allow plugging of any loads into Symmetra LX Rack-mount units

NetShelter® Racks and Enclosures

Allow mounting of Symmetra LX rack models in enterprise wiring closets and computer rooms

Service Bypass Panels

Compatible with Symmetra LX rack or tower, in wall-mount of rack-mount form factor

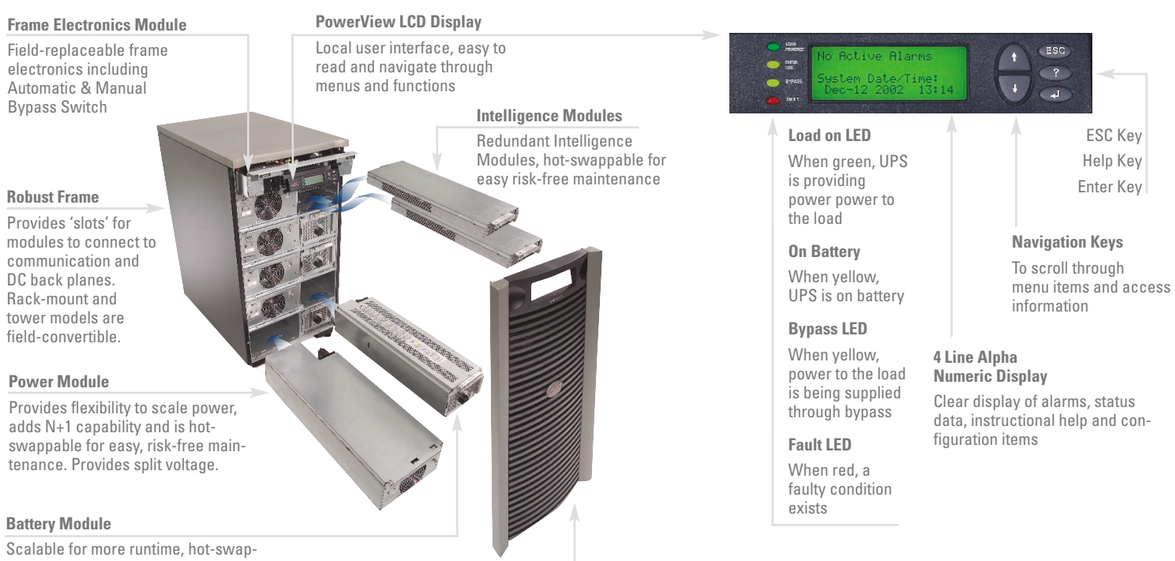
APC InfraStruXure™ Manager

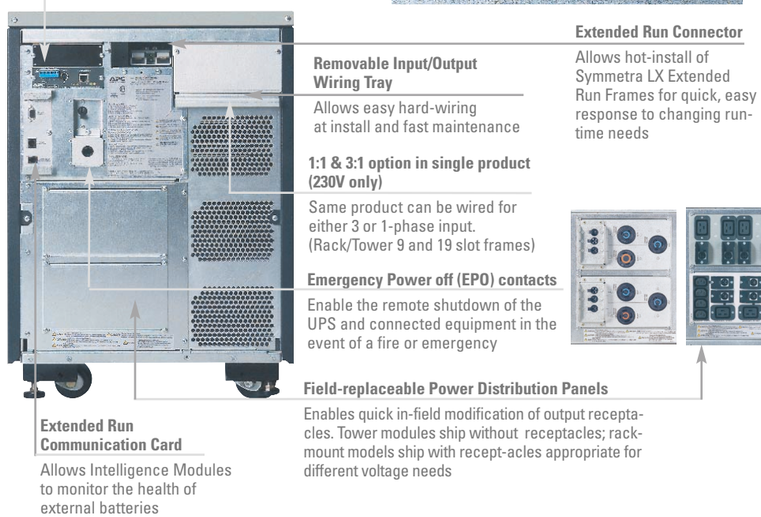
Monitor, configure and access APC power infrastructure from a single console

X-Certified for use with APC InfraStruXure™

Symmetra® LX units are X-certified, meaning they are tested and certified for use with InfraStruXure™ architecture. InfraStruXure is on-demand architecture for network-critical physical infrastructure, and the industry's only integrated data center architecture robust enough to maintain highly available and manageable networks. InfraStruXure is the industry's only integrated architecture robust enough to effectively maintain highly available and manageable networks.

InfraStruXure POWER RACK COOLING
On-demand architecture for network-critical physical infrastructure





For more information about Symmetra® LX, including runtimes, configuration, and services, go to *www.apc.com*