

■ AC Power  
For *Business-Critical Continuity™*

*Liebert NX™*  
UPS For Small And Medium Business



# Liebert Has A UPS That Matches Your Growth Plans



*Changing data centers, rapid and unpredictable growth, plus a myriad of other power-related challenges are making it increasingly difficult to protect critical network equipment and other electronic components.*

As you upgrade and expand your business, do you find small UPS proliferating throughout your racks? Do you lose track of how old each UPS is and when the batteries should be replaced? Are dropped loads your first indication that the UPS has a problem?

If this situation sounds familiar, then a room power UPS like the Liebert NX 10-30 kVA can simplify your life by eliminating multiple points of failure, and consolidating your power equipment into one professionally serviced system.

Or maybe you find yourself never having enough power as racks of servers seem to appear overnight. If your power requirements are changing faster than your UPS can, then you should consider the Liebert NX 40-120kVA UPS with Softscale Technology™.



*Whether you are planning for Room Power or a Data Center, there is a Liebert NX UPS to fit your needs*

Liebert NX is a true on-line, double conversion, three-phase UPS system that delivers complete, centralized power protection for mission-critical systems. Designed to meet the high availability power needs of a wide variety of IT applications, the UPS combines compact size, advanced operating features and low cost of ownership.

#### **Liebert NX 10, 15, 20 & 30 kVA**

- Increases growth flexibility by handling larger loads, plus the ability to parallel 20 and 30 kVA modules for increased capacity and redundancy.
- Achieves higher availability by reducing the number of UPS units required to power your room.
- Reduces total cost of ownership through the use of longer life batteries and simplified preventive maintenance.

#### **Liebert NX 40, 60, 80, 100, 120 kVA**

- Softscale™ technology provides flexibility to increase UPS capacity by 20 or 40 kVA without changes in your infrastructure.
- Parallel UPS modules for capacity and redundancy and eliminate the batteries as a single point of failure because each UPS has its own isolated battery.
- Softscale™ technology, paralleling capabilities and Eco-mode™, all contribute to lower initial, incremental and operating costs.



**Liebert NX  
40, 60, 80, 100 & 120 kVA**



**Liebert NX  
10, 15, 20 & 30 kVA**

There is a Liebert NX UPS system that is ideally suited to power electronic equipment in your small to medium business:

- Small to mid-size data centers
- Server rooms
- Production
- Labs and testing
- Telecommunications
- Process control
- Point of sale
- And other sensitive electronics

# Select the Liebert NX model that's right for current and future needs

The versatile Liebert NX is available in capacities and configurations to meet the current and future power needs of many small to mid-size applications.



## NX Features Overview

	10, 15 kVA	20,30 kVA	40, 60, 80, 100, 120 kVA	40, 60, 80 kVA with Softscale Technology	80,100,120 kVA with Softscale Technology
<b>Capacity Growth</b>					
Parallel for capacity		up to 3 modules		up to 3 modules	up to 3 modules
Parallel for redundancy		up to 4 modules		up to 4 modules	up to 4 modules
Parallel unlike capacities				■	■
Optional paralleling cabinet		■		■	■
Softscale™ technology				■	■
<b>Advanced Electronics</b>					
Digital signal processor controls	■	■	■	■	■
True on-line double conversion	■	■	■	■	■
Optimized efficiency using soft-switching technology			■	■	■
IGBT-based input power factor corrected rectifier	■	■	■	■	■
Dual bus synchronization	Optional	Optional	Optional	Integrated	Integrated
<b>Performance</b>					
Eco-Mode™ high efficiency configuration			■	■	■
Wider input voltage and frequency tolerances	■	■	■	■	■
High overload protection	■	■	■	■	■
Built-in automatic bypass	■	■	■	■	■
Optional maintenance bypass cabinet	■	■			
Optional internal batteries	■	■			
Optional external battery cabinets	■	■	■	■	■
Triple-mode battery charger for fast battery recharge	■	■	■	■	■
<b>Physical Characteristics</b>					
Rack form factor			■	■	■
Stand-alone form factor	■	■			
Front access service	■	■	■	■	■
Front access installation			■	■	■
Compact footprint	■	■	■	■	■
<b>Communications</b>					
Liebert IntelliSlot® communications compatibility	■	■	■	■	■
Multi-language LCD display	■	■	■	■	■
Remote Service Delivery (RSD)				1 yr. Standard with start up	1 yr. Standard with start up
Enterprise Remote Monitoring	Optional	Optional	Optional	Optional after 1 yr. RSD	Optional after 1 yr. RSD
<b>Warranty/Service</b>					
One Year Warranty	■	■	■	■	■
Start up available with 1 yr. Warranty, service, travel, parts	■	■	■	■	■

# Liebert NX Features

The Liebert NX family of UPS systems offers a variety of operating features to meet a wide range of requirements:



## Capacity Growth

- **Parallel for capacity** — Up to 3 UPS modules may be used in a parallel configuration to provide added capacity as needs grow.
- **Parallel for redundancy** — Up to 4 UPS modules may be used in a parallel configuration to provide redundancy for added reliability.
- **Parallel unlike capacities** — The Softscale technology of the Liebert NX allows you to change your growth increment without having to obsolete your existing UPS. A Softscale UPS rated 80kVA can be paralleled with another Softscale UPS rated 120kVA for a combined output capacity of 200kVA.
- **Optional paralleling cabinets** — These cabinets include various switchgear configurations to parallel NX modules rated 20kVA or 30 kVA, or Softscale models rated 40kVA – 120kVA, for additional capacity and redundancy.
- **Softscale™ technology** — The Liebert NX UPS Softscale capability provides fast software scalability. Purchase the capacity you need today, then when your power needs grow you simply purchase a software key and an Emerson Customer Engineer will visit your site to increase the UPS capacity. Softscale models are available in the range of 40kVA to 80kVA and 80kVA to 120kVA.

## Advanced Electronics

- **Digital signal processor controls** — The advanced topology of the Liebert NX features a digital signal processor (DSP) controlled IGBT rectifier and IGBT inverter. Digital controls provide the fastest possible power management to enhance reliability, accuracy and efficiency while reducing component count.
- **True on-line double conversion** — Output power is regenerated inside the UPS, providing protection from the full range of power irregularities.
- **Optimized Efficiency using Soft-switching technology** — This design technique improves system efficiency and maintains high efficiency performance from 40% to 100% utilization.
- **IGBT-based input power factor corrected rectifier** — Enables the Liebert NX to achieve its impressive THD and PF performance.
- **Dual bus synchronization** — Provides the capability to synchronize the outputs of two independent UPS when they are configured as a redundant system feeding independent distribution paths.

## Performance

- **Eco-Mode high efficiency configuration** — Operating mode that switches the UPS to static bypass during normal operation. When power problems are detected the UPS automatically switches back to double conversion mode.
- **High overload protection** — The system's static switch overload rating makes it capable of clearing a 20 A branch circuit breaker. Handles 125% for 10 minutes, 150% for one minute and a 1000% overload for 10 milliseconds.
- **Built-in automatic bypass** — Transfers the load to bypass in the unlikely event that a fault occurs in the UPS.
- **Optional maintenance bypass cabinet** — Provides complete wrap-around maintenance bypass allowing UPS to be powered down or taken out of service without disconnecting power to the load.
- **Optional internal batteries** — Batteries can be housed within the UPS itself in Liebert NX 10, 15, 20 and 30 kVA sizes.
- **Optional external battery cabinets** — Provide added back-up capacity for extended runtimes.
- **Triple-mode battery charger for fast battery recharge** — Three charging modes ensure maximum battery availability:
  - **Constant current charging** provides maximum rated current to the battery until the voltage rises to a pre-determined limit.

- **Constant voltage charging** allows the batteries to recover the final percentage of recharge capacity. A boost voltage is provided for a short term to reduce the battery recharge interval.
- **Float charging** maintains the battery at the recommend voltage.

## Physical Characteristics

- **Rack form factor** — Liebert NX 40, 60, 80, 100 and 120 kVA models are housed in IT rack style cabinets for easy integration within equipment rows.
- **Stand-alone form factor** — Liebert NX 10, 15, 20 and 30 kVA systems offer the flexibility of stand-alone use for data centers as well as office environments.
- **Front access service** — Allows easy servicing of critical internal components.
- **Front access installation** — No need for side access when installing UPS.

- **Compact footprint** — Requires less floor space, leaving you with more room for other equipment.

## Communications

- **Liebert IntelliSlot® communications compatibility** — Power communications available through Liebert IntelliSlot Web Card LB and Liebert MultiLink™ shutdown software.
- **Multi-language LCD display** — Large and user-friendly LCD display provides operating information in twelve languages.

- **Remote Service Delivery (RSD)** — Advanced monitoring and network security capabilities from the service business of Emerson Network Power provide an integrated approach to alarm management, predictive maintenance and emergency service response. Utilizes remote monitoring capabilities to provide periodic equipment condition reports, alarm retrieval and warehousing, escalation management, and 7 x 24 emergency service response.
- **Enterprise Remote Monitoring** — Advanced monitoring and network security capabilities from the service business of Emerson Network Power provide an integrated approach to alarm management, predictive maintenance and emergency service response.

## Warranty/Service

- **One year warranty** — Standard warranty provides full coverage for one year.
- **Start-up available with one-year warranty, service, travel, parts** — Optional start-up for the Liebert NX. Models with Softscale technology includes a one-year Remote Service Delivery package.

## Liebert NX: Flexible, Reliable And Economical

The Liebert NX family of UPS systems combines numerous technology advances and innovations to create a power system that combines high performance, compact size, reliability and cost-efficiency. Liebert NX models are available with characteristics to fit the flexibility and availability needs of different sites.



### Flexibility:

- Parallel units that are the same or different capacities for greater flexibility in managing power growth.
- Generator compatible.
- Power communications available through Liebert IntelliSlot® Web Card LB and Liebert MultiLink™ shutdown software.
- Large and user-friendly LCD display provides operating information in twelve languages.
- Internal automatic bypass transfers load to bypass in the unlikely event that a fault occurs in the UPS. Optional wrap-around maintenance bypass allows the UPS to be powered down or taken out of service without disconnecting power to the load.
- Easy servicing due to front accessibility of critical components, self-diagnostics and various monitoring options.

### Higher Availability:

- Wider input voltage window and frequency tolerances help to minimize transfer to battery, reducing the number of charging and discharging cycles.
- High overload rating capable of clearing a 20 A branch circuit breaker.
- Integrated ground fault detection allows for effective transformerless design, saving space and lowering the weight.
- True on-line double conversion technology protects and conditions against the full range of power irregularities, requiring fewer transfers to battery.
- Advanced inverter control technology provides the highest output power quality to maximize efficiency and operating life of connected equipment.
- Load Bus Synchronization provides the capability to synchronize the outputs of two independent UPS modules when they are configured as a redundant system feeding independent distribution paths.
- An intelligent battery management algorithm monitors the battery to detect any premature battery failure.

### Lowest Total Cost Of Ownership:

- Soft-switching technology optimizes operation with the same high efficiency at 40% utilization as at 100% utilization.
- Adaptive input voltage window results in fewer hits on the battery.
- The unit's compact footprint requires less floor space, leaving you with more room for other equipment.
- Temperature-compensated battery charging extends battery life.

## A New Level Of UPS Service



*Maximize the uptime of your protected equipment, and increase the life of your UPS, with scheduled preventive maintenance. Factory trained service representatives from Emerson Network Power have the knowledge, equipment and resources to provide 24x7x365 support.*

### Remote Service Delivery

Included with the start-up package for the Liebert NX 40-120 kVA with Softscale technology is one-year of remote service delivery. RSD includes equipment condition reports, comprehensive alarm management and emergency service response. This remote oversight capability will enable you to evaluate whether equipment capacity meets current and future load needs, and proactively troubleshoot potential issues before they become major problems.



### Enterprise Remote Monitoring

Enterprise Remote Monitoring from Emerson Network Power gives you comprehensive control of everything involved with the operation and maintenance of your UPS systems and other network protection equipment. As a result, the performance of your IT support infrastructure can be optimized to contain costs and increase system availability.

Data transmitted from your Liebert NX UPS is monitored for both current problems and future trends to catch and report issues before they cause problems. This includes alarm management, predictive maintenance and emergency service response.

This service also eliminates the network vulnerabilities of typical remote monitoring by using the Virtual Ntegrity Gateway, a hardware appliance that — thanks to patented technology — leaves no holes in your network protection to exploit.

### We Have The Resources To Make It All Happen

Emerson Network Power has the coverage and the capabilities to get you through just about anything. We have the most and the best factory-trained Field Technicians in the industry — over 375 of them located across the country. Our Customer Resolution Center supports you 24x7x365 with a staff of knowledgeable people who understand the technology and your equipment. And to make sure the job gets done when it needs to, we have factory-certified parts — and the most sophisticated logistics system to get them wherever they're needed.

## Liebert NX: Part Of A Total IT System Protection Solution

Here are two data center scenarios that feature Liebert NX UPS systems along with other Liebert power and cooling products, to provide total IT protection solutions.

### 7-10 Racks — Small Data Center Three Phase

#### Solution:

For the server room or small data center consisting of 7-10 racks, this innovative and reliable Liebert Solution might be the fit for your network protection needs. When information is highly critical, and downtime inexcusable, this Solution has the reliability you demand. Racks, air, power, service and monitoring — installed and pre-engineered to work together and to never stop working.



#### Products:

- 1 Liebert NX** — 10kVA to 30kVA. Can also be paralleled to 90 kVA redundant to meet room power needs.
- 2 Liebert Slimline Distribution Cabinet** — provides a space-saving 42-pole panelboard for load distribution from the UPS output. Each panelboard includes a main circuit breaker.
- 3 Knurr Miracel® Racks** — Lightweight, easy to assemble, stable racks that offer 83% ventilation and simple add-on options.
- 4 Liebert Challenger 3000** — A self-contained environmental control system that produces 3-5 tons of precision cooling in less than 7 square feet. Provides temperature control, humidity control and air filtration 24 hours a day, 365 days a year.

#### Liebert MultiLink Shutdown

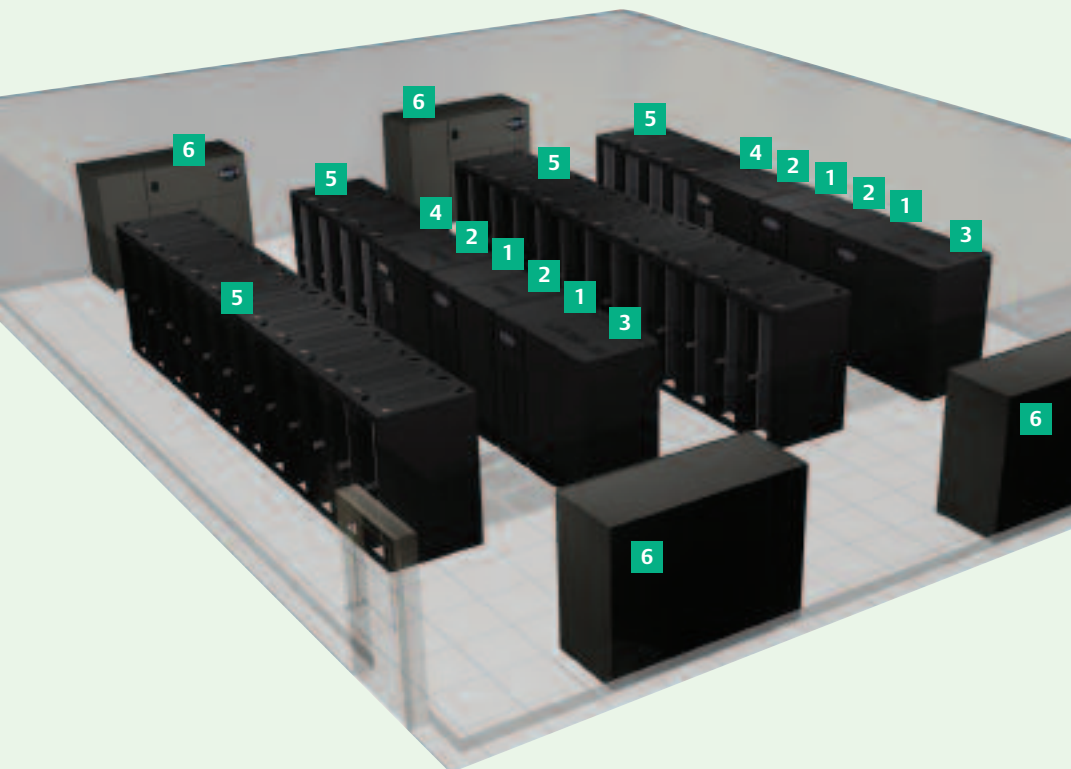
**Software** — Monitors battery status and warns users of impending power loss, and automatically shuts down systems in a safe and orderly manner.



## 10-30 Racks – Small Data Center Three Phase

### Solution:

As your rack-mount systems grow more complex and critical, Liebert has the Solution for you. Designed for a 10-30 rack data center, this example combines racks, UPS, precision cooling, service, monitoring, installation and the highly important power distribution equipment – pre-engineered to work together. Use this suggested scenario to begin framing the protection to suit your needs.



### Products:

- 1 Liebert NX** – 40-120 kVA with Softscale technology, can be paralleled up to 360 kVA redundant. Fixed capacity models are also available from 40-120 kVA.
- 2 Liebert NX Battery Cabinet** – provides battery back up. Add cabinets to meet back up needs.
- 3 Liebert NX Paralleling Cabinet** – provides the necessary componentry for parallel operation of multiple Liebert NX modules.
- 4 Liebert FDC** – Packaged power distribution for today's rack-based data centers and IT facilities, with plug-and-play flexibility.
- 5 Knurr Miracel® Racks** – Lightweight, easy to assemble, stable racks that offer 83% ventilation and simple add-on options.
- 6 Liebert DS** – Provides precision control of the room environment, including temperature, humidity, filtration and airflow. Available in 28-105kW (8-30 tons).

### Liebert MultiLink Shutdown

**Software** – Monitors battery status and warns users of impending power loss, and automatically shuts down systems in a safe and orderly manner.

### Liebert Nform™ IT Network Monitoring

**Software** – Cost-effective monitoring and communications software solution combines full-scale monitoring with cost-effective deployment through the use of the existing network infrastructure.

### Liebert IntelliSlot® Web Card LB

– Communications interface card compatible with Liebert NX UPS, delivers SNMP, Telnet and web-management capability for enhanced communications and control.

# 10-30 KVA Liebert NX



## Specifications

Models	NX 10 kVA	NX 15 kVA	NX 20 kVA	NX 30 kVA	NX Battery Cabinet 10kVA-30kVA	NX Maintenance Bypass Cabinet 10-30 kVA	NX Parallel Cabinet 20-30 kVA	NX Slimline Distribution Cabinet 10kVA-30kVA
Power Rating - kVA	10	15	20	30	N/A	10, 15, 20, 30	20 to 90 kVA	N/A
Power Rating - kW	8	12	16	24	N/A	8, 12, 16, 24	16 to 72	N/A
<b>Input AC Specifications</b>								
Phase	3				N/A	3	3	3
Power Factor	0.99				N/A	N/A	N/A	N/A
Frequency - Hz	50 or 60				N/A	60	60	60
Frequency Range - Hz	+/- 5 Hz				N/A	N/A	N/A	N/A
Input Voltage	120/208				N/A	120/208, 220, 480, 600	208, 480, 600	208/120
Input Voltage Range	+10,-20				N/A	N/A	N/A	N/A
<b>General Specifications</b>								
UPS Technology	On-Line, Double Conversion				N/A	N/A	N/A	N/A
<b>Battery Specifications</b>								
Battery Test Type	On-Line				N/A	N/A	N/A	N/A
Battery Technology	VRLA, Wet Cells				VRLA	N/A	N/A	N/A
<b>Output AC Specifications</b>								
Nominal Voltage	120/208				288 VDC	120/208	120/208	120/208
Frequency - Hz	50 or 60				60	60	60	60
Output Waveform	Sinewave				Sinewave	Sinewave	Sinewave	Sinewave
Panelboards or Receptacles	N/A				N/A	N/A	N/A	1 Panelboard (42 poles)
<b>User Interface</b>								
LCD Display	Yes				N/A	N/A	N/A	N/A
<b>Communications</b>								
Communications Options	Intellislot, SNMP, Relay Card, MultiLink				N/A	N/A	N/A	N/A
<b>Physical Data</b>								
Form Factor	Stand Alone				Stand Alone	Stand Alone	Stand Alone	Stand Alone
Unit Height - inches (mm)	63 (1,600)				63 (1,600)	63 (1,600)	63 (1,600)	63 (1,600)
Unit Width - inches (mm)	24 (600)				27 (686)	27 (686)	27 (686)	11 (279)
Unit Depth - inches (mm)	32.5 (825)				32.5 (825)	32.5 (825)	32.5 (825)	32.5 (825)
Unit Weight - lbs. (kg)	450 (205) to 1250 (567) w/ internal batteries				1350 (612) to 3740 (1697)	620(281) to 1400 (635)	904 (410) to 1912 (867)	250 (115)
Shipping Height - inches (mm)	69 (1,753)				69 (1,753)	69 (1,753)	69 (1,753)	69 (1,753)
Shipping Width - inches (mm)	32 (813)				35 (889)	35 (889)	35 (889)	35 (889)
Shipping Depth - inches (mm)	40 (1,016)				40 (1,016)	40 (1,016)	40 (1,016)	40 (1,016)
Shipping Weight - lbs. (kg)	600 (273) to 1400 (635) w/ internal batteries				1,500 (680) to 3940 (1787)	770 (349) to 1550 (703)	1104 (500) to 2112 (958)	400 (182)
<b>Environmental</b>								
Operating Temperature, Min., °F (°C)	32 (0)				32 (0)	32 (0)	32 (0)	32 (0)
Operating Temperature, Max., °F (°C)	104 (40)				104 (40)	104 (40)	104 (40)	104 (40)
Storage Temperature, Min., °F (°C)	-4 (-20)				-4 (-20)	-4 (-20)	-4 (-20)	-4 (-20)
Storage Temperature, Max., °F (°C)	158 (70)				158 (70)	158 (70)	158 (70)	158 (70)
Relative Humidity	0% to 95%, Non Condensing				0% to 95%, Non Condensing	0% to 95%, Non Condensing	0% to 95%, Non Condensing	0% to 95%, Non Condensing
Operating Elevation - ft. (m)	to 3,300 (1000)				to 3,300 (1000)	to 3,300 (1000)	to 3,300 (1000)	to 3,300 (1000)
Storage Elevation - ft. (m)	to 40,000 (12,200)				to 40,000 (12,200)	to 40,000 (12,200)	to 40,000 (12,200)	to 40,000 (12,200)
Sound Emission/Audible Noise	<54 dBA, at 1meter				N/A	N/A	N/A	N/A
Cooling	Fan Cooled				Convection Cooled	Convection Cooled	Convection Cooled	Convection Cooled
<b>Agency/Certification/Conformance</b>								
Agency Approval	UL 1778, cUL, FCC Class A				UL 1778, cUL, FCC Class A	UL 1778, cUL, FCC Class A	UL 1778, cUL, FCC Class A	UL 1778, cUL, FCC Class A
<b>Warranty</b>								
Standard	1 Year				1 Year	1 Year	1 Year	1 Year



## 40-120 KVA Liebert NX

### Specifications

Models	NX 40 kVA	NX 60 kVA	NX 80 kVA	NX 100 kVA	NX 120 kVA	NX Battery Cabinet 40-120 kVA	NX Parallel Cabinet 40-120 kVA
Power Rating - kVA	40	60	80	100	120	80/120	80/120
Power Rating - kW	36	54	72	90	108	80/120	80/120
<b>Input AC Specifications</b>							
Phase	3					DC	3
Power Factor	> 0.99 at full load; >0.98 at half load					N/A	N/A
Frequency - Hz	50 or 60Hz.					N/A	60
Input Voltage	480, 3 Wire + Ground					N/A	480V or 600V, 3-wire plus ground
Input Voltage Range	+15, -20					N/A	N/A
<b>General Specifications</b>							
UPS Technology	On-Line, double conversion						
<b>Battery Specifications</b>							
Battery Test Type	On-Line						
Battery Technology	VRLA, Wet Cells					VRLA	
<b>Output AC Specifications</b>							
Nominal Voltage	480VAC, 3wire plus ground					480 VDC	480 VAC, 3wire plus ground
Frequency - Hz	60 (50 Hz in frequency converter mode)					N/A	60
Output Waveform	Sinewave					N/A	Sinewave
Panelboards or Receptacles	N/A					0	1
<b>User Interface</b>							
LCD Display	Yes					No	No
<b>Communications</b>							
Communications Options	Intellislot, SNMP, Relay Card, MultiLink					Dry Contact (back to UPS)	Dry Contact (back to UPS)
<b>Physical Data</b>							
Form Factor	Rack					Rack	Rack
Unit Height - inches (mm)	78.5 (2000)					78.7 (2000)	78.7 (2000)
Unit Width - inches (mm)	23.6 (600)					33.2 (845)	33.2 to 48.8 (845 to 1240)
Unit Depth - inches (mm)	38 (965)					38 (965)	38 (965)
Unit Weight - lbs. (kg)	1290 (585)	1290 (585)	1290 (585)	1422 (645)	1422 (645)	Weight based on selected configuration	
Shipping Height - inches (mm)	84.5 (2146)					84.5 (2146)	84.5 (2146)
Shipping Width - inches (mm)	48 (1220)					48 (1220)	48 to 74 (1220 to 1880)
Shipping Depth - inches (mm)	48 (1220)					48 (1220)	54 (1372)
Shipping Weight - lbs. (kg)	1490 (676)	1490 (676)	1490 (676)	1622 (736)	1622 (736)	Weight based on selected configuration	
<b>Environmental</b>							
Operating Temperature, Min., °F (°C)	32 (0)					32 (0)	
Operating Temperature, Max., °F (°C)	104 (40)					104 (40)	
Storage Temperature, Min., °F (°C)	-4 (-20)					-4 (-20)	
Storage Temperature, Max., °F (°C)	158 (70)					158 (70)	
Relative Humidity	0% to 95%, Non Condensing					0% to 95%, Non Condensing	
Operating Elevation - ft. (m)	≤ 3,300 (1000) per IEC 62040/3					≤ 3,300 (1000) per IEC 62040/3	
Sound Emission/Audible Noise	62	62	62	64	64		
Cooling	Fan Cooled					Convection Cooled	
<b>Agency/Certification/Conformance</b>							
Agency Approval	UL 1778, c-UL, FCC Class A					UL 1778, c-UL, FCC Class A	
<b>Warranty</b>							
Standard	1 Year					1 Year	

# Ensuring The High Availability Of Mission-Critical Data And Applications.

**Emerson Network Power, the global leader in enabling business-critical continuity, ensures network resiliency and adaptability through a family of technologies – including Liebert power and cooling technologies – that protect and support business-critical systems. Liebert solutions employ an adaptive architecture that responds to changes in criticality, density and capacity. Enterprises benefit from greater IT system availability, operational flexibility, and reduced capital equipment and operating costs.**

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The global leader in enabling *Business-Critical Continuity*™.

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■ Connectivity

■ DC Power

■ Embedded Computing

■ Embedded Power

■ Monitoring

■ Outside Plant

■ Power Switching & Controls

■ Precision Cooling

■ Racks & Integrated Cabinets

■ Services

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