

■ AC Power for
Business-Critical Continuity™

Liebert® NXC from 10 to 40 kVA




EMERSON
Network Power



Emerson Network Power, a division of Emerson, is a global company that combines technology with design to supply innovative solutions for the benefit of its customers.

Emerson Network Power is the leader in the “**business-critical continuity**” field, thanks to the company’s products and services.

Emerson Network Power’s broad technology base and global expertise support a full spectrum of enterprise-wide solutions for today’s vital business needs.



Regardless of your size, you can’t afford for your critical business systems to go down and you can’t waste time recovering your IT infrastructure after a disruption.

Leave that to us, the experts in *business-critical continuity*: from grid to chip, from the biggest to the smallest data centers, we are ready to serve your needs with the solutions we have developed.

More standardization, so you don’t need further budget allocations to install it.

More simplification so you don’t need to be a specialist to get the best for your business.

More support, so while you are enjoying doing business, we are protecting you.





Liebert® NXC From 10-40 kVA

Features and Performances

- 0.9 output power factor
- Double conversion efficiency up to 95%
- Eco mode efficiency up to 98%
- Input current total harmonic distortion (THDi) < 4%
- Battery charger up to 6 kW
- Integrated manual bypass
- Integrated input and output breakers/switches
- Integrated parallel load bus and synchronization port (LBS)

Continuous Reliability

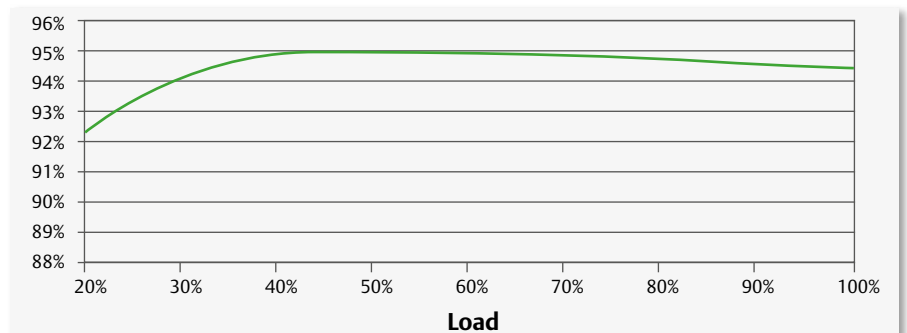
The Liebert® NXC 10 - 40 kVA range offers reliable and flexible secure power in a fully integrated package solution. Its highly efficient transformer-free double conversion technology delivers installation and running cost savings. With a rated output power factor of 0.9, Liebert® NXC is also able to provide 12.5% greater active power than a traditionally rated 0.8 power factor UPS.

Liebert® NXC achieves up to 95% efficiency in double conversion mode and up to 98% in Eco mode, thus ensuring effective load protection, while reducing the total cost of ownership (TCO) and

environmental impact.

Liebert® NXC's combination of performance features, impressive integrated autonomy and compact footprint make it ideal for guaranteeing clean, continuous power for a wide range of applications from IT and manufacturing to retail and transport.

Its low THDi (< 4%) and active input power factor correction ensure that the current absorbed from the upstream distribution network is near equal to its nominal output current, hence eliminating the need for oversizing gensets and other equipment.



Liebert® NXC efficiency curve



Flexibility

To ensure superior protection for critical loads, the Liebert® NXC range has been designed to optimize specific rating requirements, thus enhancing flexibility and installation space needs.

Liebert® NXC's flexibility is further enhanced through:

- **Single and three phase output configuration**
- **Integrated parallel and dual bus control**
- **Common or distributed battery bank**
- **Multiple internal battery configurations for flexible internal back up time management.**

Output Configuration

Liebert® NXC models up to 20 kVA can be configured on-site to deliver three (3/3) or single (3/1) phase output giving it the flexibility to adapt to changes in installation environments.

Full Galvanic Isolation

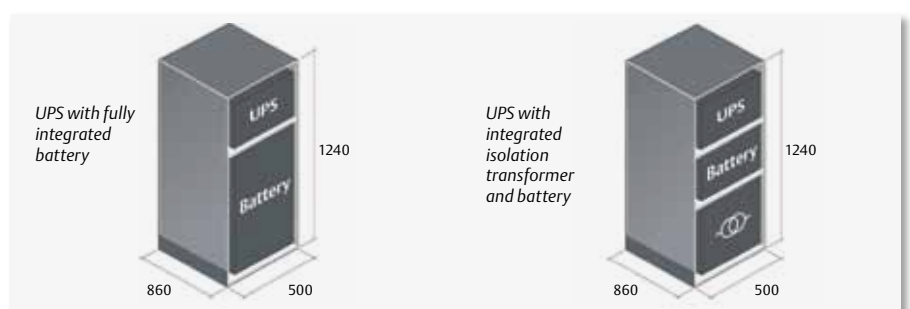
Liebert® NXC offers integrated full galvanic isolation, meaning that an isolation transformer may be housed inside the UPS cabinet. This greatly reduces the system footprint, thus providing space saving advantages. The transformer may be connected to the input or to the output of the UPS, providing:

- **Full galvanic isolation for medical and other critical applications**
- **Installation with two independent input sources (with different neutrals)**
- **Installation in distribution without neutral.**

Integrated Autonomy

Liebert® NXC provides an excellent integrated autonomy which results in back up times of up to one hour. Its spacious internal architecture is able to house up to four battery strings, further optimizing integrated autonomy and delivering the added advantage of virtually eliminating the need for an external battery cabinet. This furthermore reduces installation costs and minimizes the demand on physical space.

In addition, Liebert® NXC's powerful battery charger (up to 6 kW) ensures rapid recharge, increasing its ability to manage longer back up times.





In The Field

Trellis™ Platform

Liebert® NXC can be integrated into Emerson Network Power's Trellis™ platform. A real-time infrastructure optimization platform that enables the unified management of data centre IT and facilities infrastructure.

The Trellis™ platform software can manage capacity, track inventory, plan changes, visualize configurations, analyze and calculate energy usage, and optimize cooling and power equipment as well as enable for virtualization.

The Trellis™ platform monitors the data center, providing a thorough understanding of system dependencies to help IT and facilities organizations keep the data center running at peak performance. This unified and complete solution, delivers the power to see the real situation in your data center, make the right decision and take action with confidence.



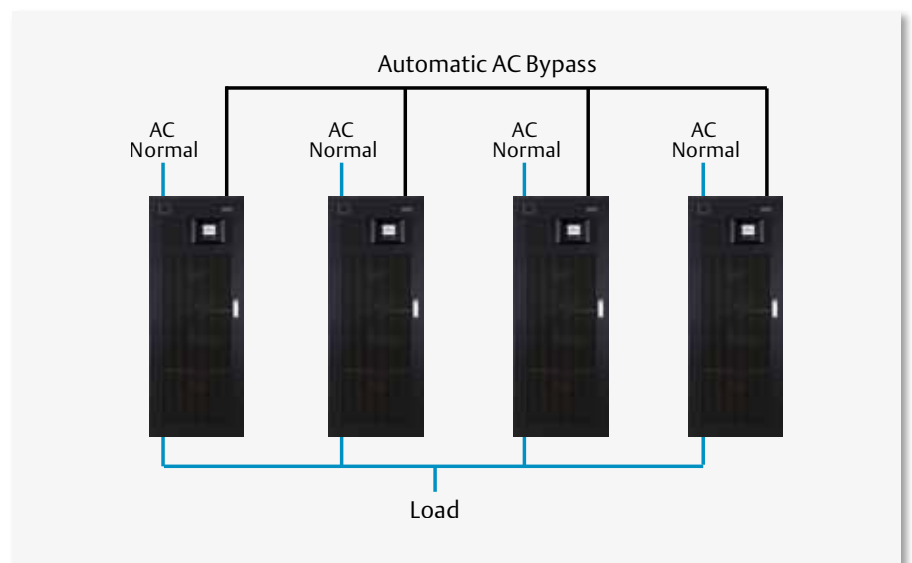
Parallel and Dual Bus Ready

Liebert® NXC can be connected with up to four units in parallel. A single unit can be upgraded to parallel operation via easy to modify software settings, allowing the system to be customized for the requested configuration.

The Loop BUS connection used in paralleling the system

delivers ultimate reliability and eliminates the possibility of a single point of failure, ensuring perfect load sharing and fast detection of any variation in the system status.

Furthermore, the output of two single or parallel Liebert® NXC units can be synchronized to deploy a dual bus feed, achieving Tier IV level reliability.



Liebert® NXC - Parallel configuration

Communication



Liebert® NXC features a multi-lingual LCD user interface allowing close control and monitoring of system status and performance. The UPS offers the following communication features:

- **Voltage-free contact ports**
- **USB interface**
- **Optocoupler based interfaces**
- **Intellislot for SNMP, Modbus or Relay communication.**

These communication capabilities make Liebert® NXC compatible with any building management system.



Liebert® NXC - 10 - 20 kVA



Liebert® NXC - 30 - 40 kVA

Software Connectivity

Liebert Multilink™ software prevents unexpected server shutdowns and minimizes downtime warning of pending power losses and initiating safe shutdown of operating systems if required.

Liebert Nform™ network communications system enables customers to leverage the distributed monitoring capabilities of network connected equipment, providing centralized management of distributed systems.

Serviceability

The architecture of the Liebert® NXC is designed to optimize installation and simplify service with its easily removable power assembly. This architecture considerably minimizes the time needed for repairs and optimizes serviceability.

Liebert® NXC also comes equipped with casters to facilitate ease of movement and relocation.



Connectivity cards



Servicing Critical Infrastructure

Proactive equipment maintenance reduces downtime and extends equipment life which in turn maximizes return on investment and increases system availability. Emerson Network Power supports entire critical infrastructures with an extensive service offering, guaranteeing network availability and total peace of mind 24/7.

Our approach to servicing critical infrastructure covers all aspects of availability and performance, from single units to entire mission critical systems, providing customers with tailored services to meet their individual business needs and further guaranteeing *Business-Critical Continuity*[™].

Emerson Network Power's service program is designed to ensure that your critical power protection system is maintained in an optimum state of readiness at all times.

The LIFE[™].net remote monitoring and diagnostic service provides early warning of UPS conditions and out of tolerances. This allows effective proactive maintenance, fast incident response and remote trouble shooting, giving customers complete security and peace of mind.

Maximize Availability

Pre-Emptive Maintenance

Regular preventive maintenance increases uptime. Emerson Network Power's LIFE[™].net provides early warning of operating anomalies allowing real-time diagnosis and swift identification and resolution.



Minimize Downtime

Immediate Identification of Problems

Should an emergency condition arise, an engineer in the 24/7 manned LIFE[™].net service center carries out an immediate fault analysis and instigates appropriate corrective action.



Reduce Operating Costs

Superior Asset Management

Through comprehensive data collection and analysis, LIFE[™].net's detailed reporting system provides valuable information on power and equipment trends, over any selected period of time.

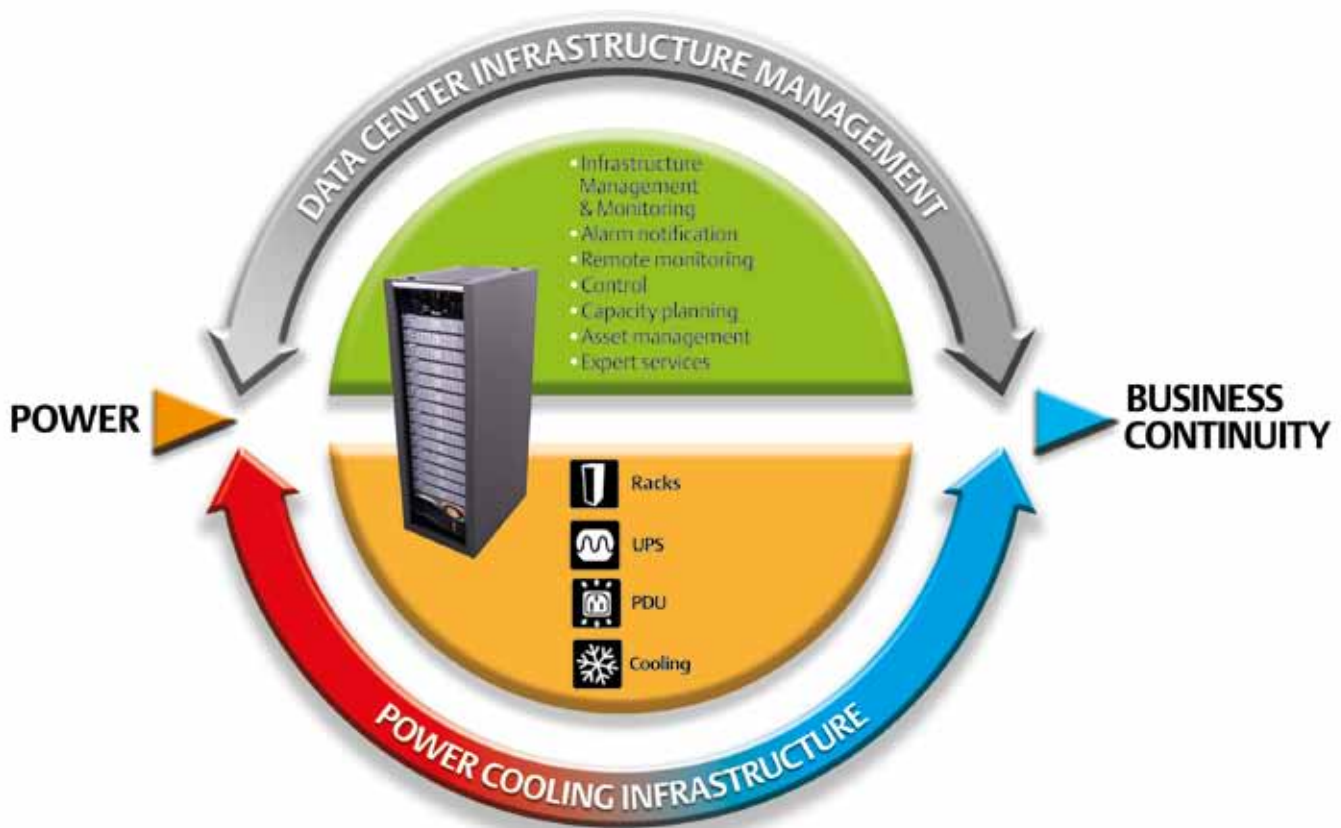


Liebert® NXC

Specifications

Technical Characteristics (3/3 and 3/1 configurations)						
Ratings (kVA)		10 kVA	15 kVA	20 kVA	30 kVA	40 kVA
Input						
Nominal input voltage (V)				380/400/415		
Input voltage range without battery discharge (V)				305V to 477		
Nominal frequency (Hz)				50/60		
Input frequency range (Hz)				40 to 70		
Input power factor (kW/kVA)				0.99		
Current THD at full linear load (THDI%)				<4		
Bypass voltage tolerance (%)				selectable from +20 to -40		
Bypass frequency tolerance (%)				±20 (±10 selectable)		
Battery						
Number battery cells per string			Max: 240; Min: 180		Max: 240; Min: 192	
Voltage temperature compensation (mV/°C/Cell)			-3.0 (selectable 0 to -5.0 around 25°C or 20°C or inhibit)			
Battery charger max. power (kW)			4.5		6	
Output						
Nominal output voltage (V)		380/400/415 (three-phase) or 220/230/240 (single-phase)			380/400/415 (three-phase)	
Nominal output frequency (Hz)				50/60		
Nominal active power (kW)		9	13.5	18	27	36
THDv with 100% linear load (%)				2		
Inverter overload capacity		105% for 60 min; 125% for 5 min; 150% for 1 min; >150% for 200ms				
Double conversion efficiency	100%	94.4%	94.5%	94.2%	94.7%	94.4%
	75%	94.0%	94.4%	94.5%	94.8%	94.7%
	50%	93.5%	94.0%	94.4%	94.6%	94.8%
	25%	90.5%	92.9%	93.5%	91.7%	93.6%
Eco mode efficiency (%)				98.0%		
Dimensions and weight						
Dimensions (W x D x H) mm		500 x 860 x 1240			600 x 850 x 1600	
Weight (excluding battery) kg		115/145			210/245	
Weight (including 32 batteries) kg		215/245			600/635	
General						
Noise at 1 m (dBA)		≤56	≤56	≤58	≤56	≤58
Protection level IEC (60529)				IP20		
General and safety requirements for UPS				EN/IEC/AS 62040-1		
EMC requirements for UPS				EN/IEC/AS 62040-2		
UPS classification according to CEI EN 6240-3				VFI-SS-111		

Emerson Network Power Business-Critical Continuity™ Expert



Today's successful businesses depend on adaptable technologies to help them respond quickly to market demands. Your data center must be built on a support infrastructure designed to match the power and cooling needs of rapidly changing IT initiatives such as virtualization and consolidation. Each IT change, move or addition will affect the entire support infrastructure so you need products and support that ensure your IT systems will operate reliably in these environments.

Get more on line: www.EmersonNetworkPower.eu



More than 35,000 organizations in 70 countries depend on our Business - Critical Continuity™ Promise: your IT infrastructure stays up to support your Business!