

■ 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.



Destination	Flight	Time	Status
London	BA 001	10:00	On Time
London	BA 002	10:15	On Time
London	BA 003	10:30	On Time
London	BA 004	10:45	On Time
London	BA 005	11:00	On Time
London	BA 006	11:15	On Time
London	BA 007	11:30	On Time
London	BA 008	11:45	On Time
London	BA 009	12:00	On Time
London	BA 010	12:15	On Time
London	BA 011	12:30	On Time
London	BA 012	12:45	On Time
London	BA 013	13:00	On Time
London	BA 014	13:15	On Time
London	BA 015	13:30	On Time
London	BA 016	13:45	On Time
London	BA 017	14:00	On Time
London	BA 018	14:15	On Time
London	BA 019	14:30	On Time
London	BA 020	14:45	On Time
London	BA 021	15:00	On Time
London	BA 022	15:15	On Time
London	BA 023	15:30	On Time
London	BA 024	15:45	On Time
London	BA 025	16:00	On Time
London	BA 026	16:15	On Time
London	BA 027	16:30	On Time
London	BA 028	16:45	On Time
London	BA 029	17:00	On Time
London	BA 030	17:15	On Time
London	BA 031	17:30	On Time
London	BA 032	17:45	On Time
London	BA 033	18:00	On Time
London	BA 034	18:15	On Time
London	BA 035	18:30	On Time
London	BA 036	18:45	On Time
London	BA 037	19:00	On Time
London	BA 038	19:15	On Time
London	BA 039	19:30	On Time
London	BA 040	19:45	On Time
London	BA 041	20:00	On Time
London	BA 042	20:15	On Time
London	BA 043	20:30	On Time
London	BA 044	20:45	On Time
London	BA 045	21:00	On Time
London	BA 046	21:15	On Time
London	BA 047	21:30	On Time
London	BA 048	21:45	On Time
London	BA 049	22:00	On Time
London	BA 050	22:15	On Time
London	BA 051	22:30	On Time
London	BA 052	22:45	On Time
London	BA 053	23:00	On Time
London	BA 054	23:15	On Time
London	BA 055	23:30	On Time
London	BA 056	23:45	On Time
London	BA 057	00:00	On Time
London	BA 058	00:15	On Time
London	BA 059	00:30	On Time
London	BA 060	00:45	On Time
London	BA 061	01:00	On Time
London	BA 062	01:15	On Time
London	BA 063	01:30	On Time
London	BA 064	01:45	On Time
London	BA 065	02:00	On Time
London	BA 066	02:15	On Time
London	BA 067	02:30	On Time
London	BA 068	02:45	On Time
London	BA 069	03:00	On Time
London	BA 070	03:15	On Time
London	BA 071	03:30	On Time
London	BA 072	03:45	On Time
London	BA 073	04:00	On Time
London	BA 074	04:15	On Time
London	BA 075	04:30	On Time
London	BA 076	04:45	On Time
London	BA 077	05:00	On Time
London	BA 078	05:15	On Time
London	BA 079	05:30	On Time
London	BA 080	05:45	On Time
London	BA 081	06:00	On Time
London	BA 082	06:15	On Time
London	BA 083	06:30	On Time
London	BA 084	06:45	On Time
London	BA 085	07:00	On Time
London	BA 086	07:15	On Time
London	BA 087	07:30	On Time
London	BA 088	07:45	On Time
London	BA 089	08:00	On Time
London	BA 090	08:15	On Time
London	BA 091	08:30	On Time
London	BA 092	08:45	On Time
London	BA 093	09:00	On Time
London	BA 094	09:15	On Time
London	BA 095	09:30	On Time
London	BA 096	09:45	On Time
London	BA 097	10:00	On Time
London	BA 098	10:15	On Time
London	BA 099	10:30	On Time
London	BA 100	10:45	On Time

Destination	Flight	Time	Status
New York	AA 001	10:00	On Time
New York	AA 002	10:15	On Time
New York	AA 003	10:30	On Time
New York	AA 004	10:45	On Time
New York	AA 005	11:00	On Time
New York	AA 006	11:15	On Time
New York	AA 007	11:30	On Time
New York	AA 008	11:45	On Time
New York	AA 009	12:00	On Time
New York	AA 010	12:15	On Time
New York	AA 011	12:30	On Time
New York	AA 012	12:45	On Time
New York	AA 013	13:00	On Time
New York	AA 014	13:15	On Time
New York	AA 015	13:30	On Time
New York	AA 016	13:45	On Time
New York	AA 017	14:00	On Time
New York	AA 018	14:15	On Time
New York	AA 019	14:30	On Time
New York	AA 020	14:45	On Time
New York	AA 021	15:00	On Time
New York	AA 022	15:15	On Time
New York	AA 023	15:30	On Time
New York	AA 024	15:45	On Time
New York	AA 025	16:00	On Time
New York	AA 026	16:15	On Time
New York	AA 027	16:30	On Time
New York	AA 028	16:45	On Time
New York	AA 029	17:00	On Time
New York	AA 030	17:15	On Time
New York	AA 031	17:30	On Time
New York	AA 032	17:45	On Time
New York	AA 033	18:00	On Time
New York	AA 034	18:15	On Time
New York	AA 035	18:30	On Time
New York	AA 036	18:45	On Time
New York	AA 037	19:00	On Time
New York	AA 038	19:15	On Time
New York	AA 039	19:30	On Time
New York	AA 040	19:45	On Time
New York	AA 041	20:00	On Time
New York	AA 042	20:15	On Time
New York	AA 043	20:30	On Time
New York	AA 044	20:45	On Time
New York	AA 045	21:00	On Time
New York	AA 046	21:15	On Time
New York	AA 047	21:30	On Time
New York	AA 048	21:45	On Time
New York	AA 049	22:00	On Time
New York	AA 050	22:15	On Time
New York	AA 051	22:30	On Time
New York	AA 052	22:45	On Time
New York	AA 053	23:00	On Time
New York	AA 054	23:15	On Time
New York	AA 055	23:30	On Time
New York	AA 056	23:45	On Time
New York	AA 057	00:00	On Time
New York	AA 058	00:15	On Time
New York	AA 059	00:30	On Time
New York	AA 060	00:45	On Time
New York	AA 061	01:00	On Time
New York	AA 062	01:15	On Time
New York	AA 063	01:30	On Time
New York	AA 064	01:45	On Time
New York	AA 065	02:00	On Time
New York	AA 066	02:15	On Time
New York	AA 067	02:30	On Time
New York	AA 068	02:45	On Time
New York	AA 069	03:00	On Time
New York	AA 070	03:15	On Time
New York	AA 071	03:30	On Time
New York	AA 072	03:45	On Time
New York	AA 073	04:00	On Time
New York	AA 074	04:15	On Time
New York	AA 075	04:30	On Time
New York	AA 076	04:45	On Time
New York	AA 077	05:00	On Time
New York	AA 078	05:15	On Time
New York	AA 079	05:30	On Time
New York	AA 080	05:45	On Time
New York	AA 081	06:00	On Time
New York	AA 082	06:15	On Time
New York	AA 083	06:30	On Time
New York	AA 084	06:45	On Time
New York	AA 085	07:00	On Time
New York	AA 086	07:15	On Time
New York	AA 087	07:30	On Time
New York	AA 088	07:45	On Time
New York	AA 089	08:00	On Time
New York	AA 090	08:15	On Time
New York	AA 091	08:30	On Time
New York	AA 092	08:45	On Time
New York	AA 093	09:00	On Time
New York	AA 094	09:15	On Time
New York	AA 095	09:30	On Time
New York	AA 096	09:45	On Time
New York	AA 097	10:00	On Time
New York	AA 098	10:15	On Time
New York	AA 099	10:30	On Time
New York	AA 100	10:45	On Time

Destination	Flight	Time	Status
Paris	AF 001	10:00	On Time
Paris	AF 002	10:15	On Time
Paris	AF 003	10:30	On Time
Paris	AF 004	10:45	On Time
Paris	AF 005	11:00	On Time
Paris	AF 006	11:15	On Time
Paris	AF 007	11:30	On Time
Paris	AF 008	11:45	On Time
Paris	AF 009	12:00	On Time
Paris	AF 010	12:15	On Time
Paris	AF 011	12:30	On Time
Paris	AF 012	12:45	On Time
Paris	AF 013	13:00	On Time
Paris	AF 014	13:15	On Time
Paris	AF 015	13:30	On Time
Paris	AF 016	13:45	On Time
Paris	AF 017	14:00	On Time
Paris	AF 018	14:15	On Time
Paris	AF 019	14:30	On Time
Paris	AF 020	14:45	On Time
Paris	AF 021	15:00	On Time
Paris	AF 022	15:15	On Time
Paris	AF 023	15:30	On Time
Paris	AF 024	15:45	On Time
Paris	AF 025	16:00	On Time
Paris	AF 026	16:15	On Time
Paris	AF 027	16:30	On Time
Paris	AF 028	16:45	On Time
Paris	AF 029	17:00	On Time
Paris	AF 030	17:15	On Time
Paris	AF 031	17:30	On Time
Paris	AF 032	17:45	On Time
Paris	AF 033	18:00	On Time
Paris	AF 034	18:15	On Time
Paris	AF 035	18:30	On Time
Paris	AF 036	18:45	On Time
Paris	AF 037	19:00	On Time
Paris	AF 038	19:15	On Time
Paris	AF 039	19:30	On Time
Paris	AF 040	19:45	On Time
Paris	AF 041	20:00	On Time
Paris	AF 042	20:15	On Time
Paris	AF 043	20:30	On Time
Paris	AF 044	20:45	On Time
Paris	AF 045	21:00	On Time
Paris	AF 046	21:15	On Time
Paris	AF 047	21:30	On Time
Paris	AF 048	21:45	On Time
Paris	AF 049	22:00	On Time
Paris	AF 050	22:15	On Time
Paris	AF 051	22:30	On Time
Paris	AF 052	22:45	On Time
Paris	AF 053	23:00	On Time
Paris	AF 054	23:15	On Time
Paris	AF 055	23:30	On Time
Paris	AF 056	23:45	On Time
Paris	AF 057	00:00	On Time
Paris	AF 058	00:15	On Time
Paris	AF 059	00:30	On Time
Paris	AF 060	00:45	On Time
Paris	AF 061	01:00	On Time
Paris	AF 062	01:15	On Time
Paris	AF 063	01:30	On Time
Paris	AF 064	01:45	On Time
Paris	AF 065	02:00	On Time
Paris	AF 066	02:15	On Time
Paris	AF 067	02:30	On Time
Paris	AF 068	02:45	On Time
Paris	AF 069	03:00	On Time
Paris	AF 070	03:15	On Time
Paris	AF 071	03:30	On Time
Paris	AF 072	03:45	On Time
Paris	AF 073	04:00	On Time
Paris	AF 074	04:15	On Time
Paris	AF 075	04:30	On Time
Paris	AF 076	04:45	On Time
Paris	AF 077	05:00	On Time
Paris	AF 078	05:15	On Time
Paris	AF 079	05:30	On Time
Paris	AF 080	05:45	On Time
Paris	AF 081	06:00	On Time
Paris	AF 082	06:15	On Time
Paris	AF 083	06:30	On Time
Paris	AF 084	06:45	On Time
Paris	AF 085	07:00	On Time
Paris	AF 086	07:15	On Time
Paris	AF 087	07:30	On Time
Paris	AF 088	07:45	On Time
Paris	AF 089	08:00	On Time
Paris	AF 090	08:15	On Time
Paris	AF 091	08:30	On Time
Paris	AF 092	08:45	On Time
Paris	AF 093	09:00	On Time
Paris	AF 094	09:15	On Time
Paris	AF 095	09:30	On Time
Paris	AF 096	09:45	On Time
Paris	AF 097	10:00	On Time
Paris	AF 098	10:15	On Time
Paris	AF 099	10:30	On Time
Paris	AF 100	10:45	On Time



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

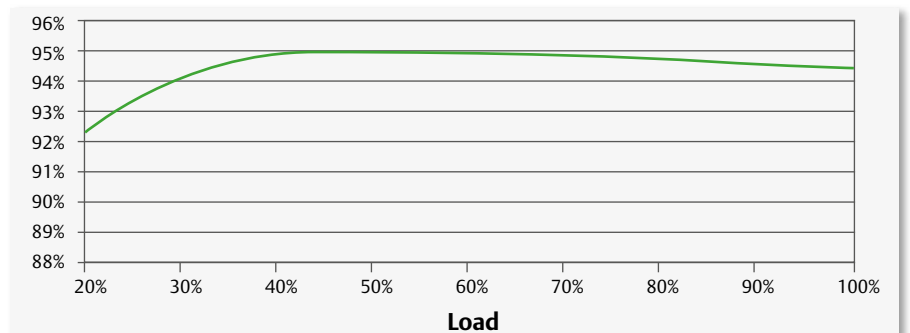
The Liebert® NXC 10 - 40 kVA range offers reliable and flexible secure power in a fully integrated package solution. Its highly efficient transformer-free double conversion technology delivers installation and running cost savings. With a rated output power factor of 0.9, Liebert® NXC is also able to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

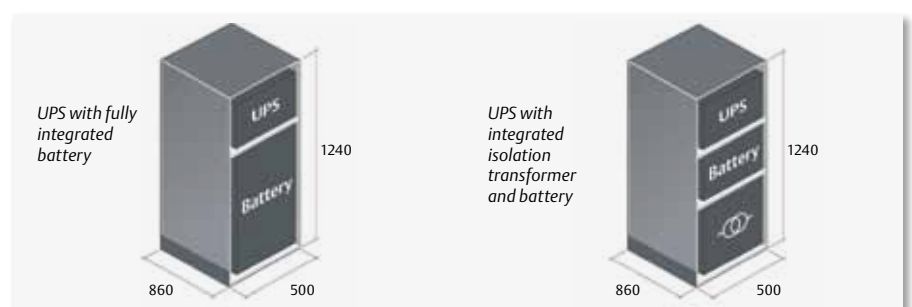
Liebert® NXC offers integrated full galvanic isolation, meaning that an isolation transformer may be housed inside the UPS cabinet. This greatly reduces the system footprint, thus providing space saving advantages. The transformer may be connected to the input or to the output of the UPS, providing:

- **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.



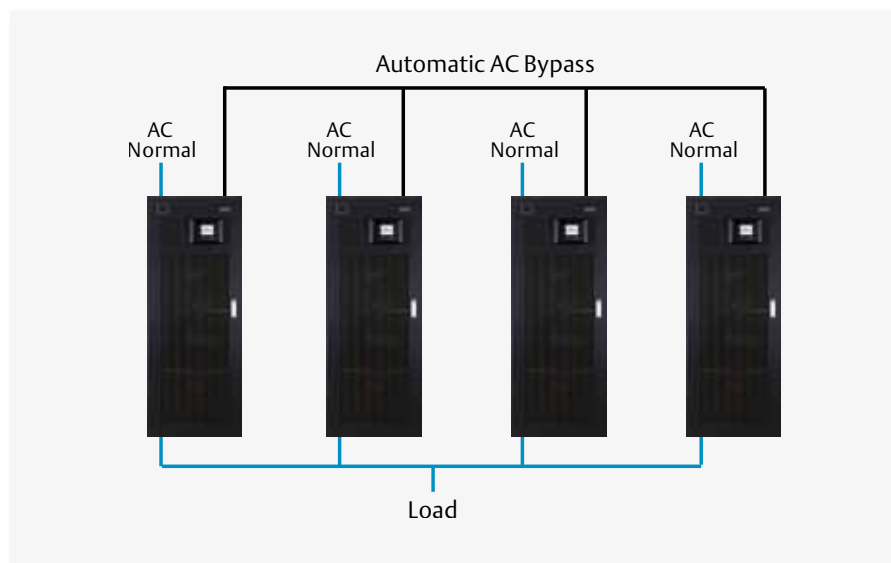
Parallel and Dual Bus Ready

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.

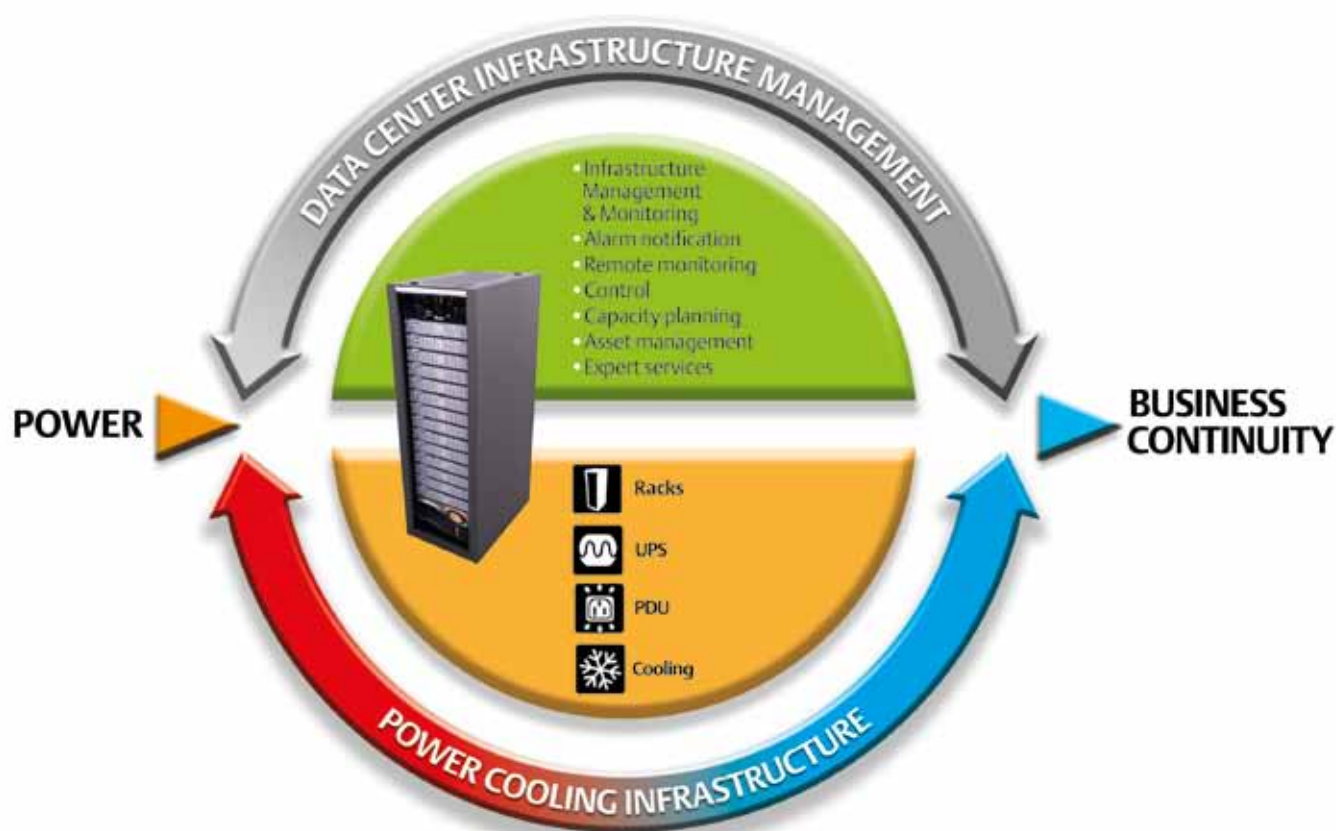


Liebert® NXC

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!*

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

About Emerson Network Power

Emerson Network Power, a business of Emerson (NYSE:EMR), delivers software, hardware and services that maximize availability, capacity and efficiency for data centers, healthcare and industrial facilities. A trusted industry leader in smart infrastructure technologies, Emerson Network Power provides innovative data center infrastructure management solutions that bridge the gap between IT and facility management and deliver efficiency and uncompromised availability regardless of capacity demands. Our solutions are supported globally by local Emerson Network Power service technicians. Learn more about Emerson Network Power products and services at

www.EmersonNetworkPower.eu

While every precaution has been taken to ensure accuracy and completeness of this literature, Emerson Network Power and/or its affiliates makes no representations or warranty about the accuracy, reliability, completeness, or timeliness of the materials and disclaims any and all liability for damages resulting from use of this information or for any errors or omissions.

©2013 Emerson Network Power. All rights reserved.
Specifications subject to change without notice.

MKA4L0UKNXC Rev. 2-02/2013

Emerson Network Power

The global leader in enabling Business-Critical Continuity™

- | | | | |
|----------------|--|------------------------------|-------------------------------|
| ■ AC Power | ■ Embedded Computing | ■ Outside Plant | ■ Racks & Integrated Cabinets |
| ■ Connectivity | ■ Embedded Power | ■ Power Switching & Controls | ■ Services |
| ■ DC Power | ■ Infrastructure Management & Monitoring | ■ Precision Cooling | ■ Surge Protection |

Locations

Emerson Network Power

Via Leonardo Da Vinci 16/18
Zona Industriale Tognana
35028 Piove di Sacco (PD) Italy
Tel: +39 049 9719 111
Fax: +39 049 5841 257

Via Fornace, 30
40023 Castel Guelfo (BO) Italy
Tel: +39 0542 632 111
Fax: +39 0542 632 120

Marketing.Networkpower.Emea@Emerson.com

United States

1050 Dearborn Drive
P.O. Box 29186
Columbus, OH 43229
Tel: +1 614 8880246

Asia

7/F, Dah Sing Financial Centre
108 Gloucester Road, Wanchai
Hong Kong
Tel: +852 2572220
Fax: +852 28029250