

AC Power for
Business-Critical Continuity™

Liebert® NXC from 10 to 20 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.



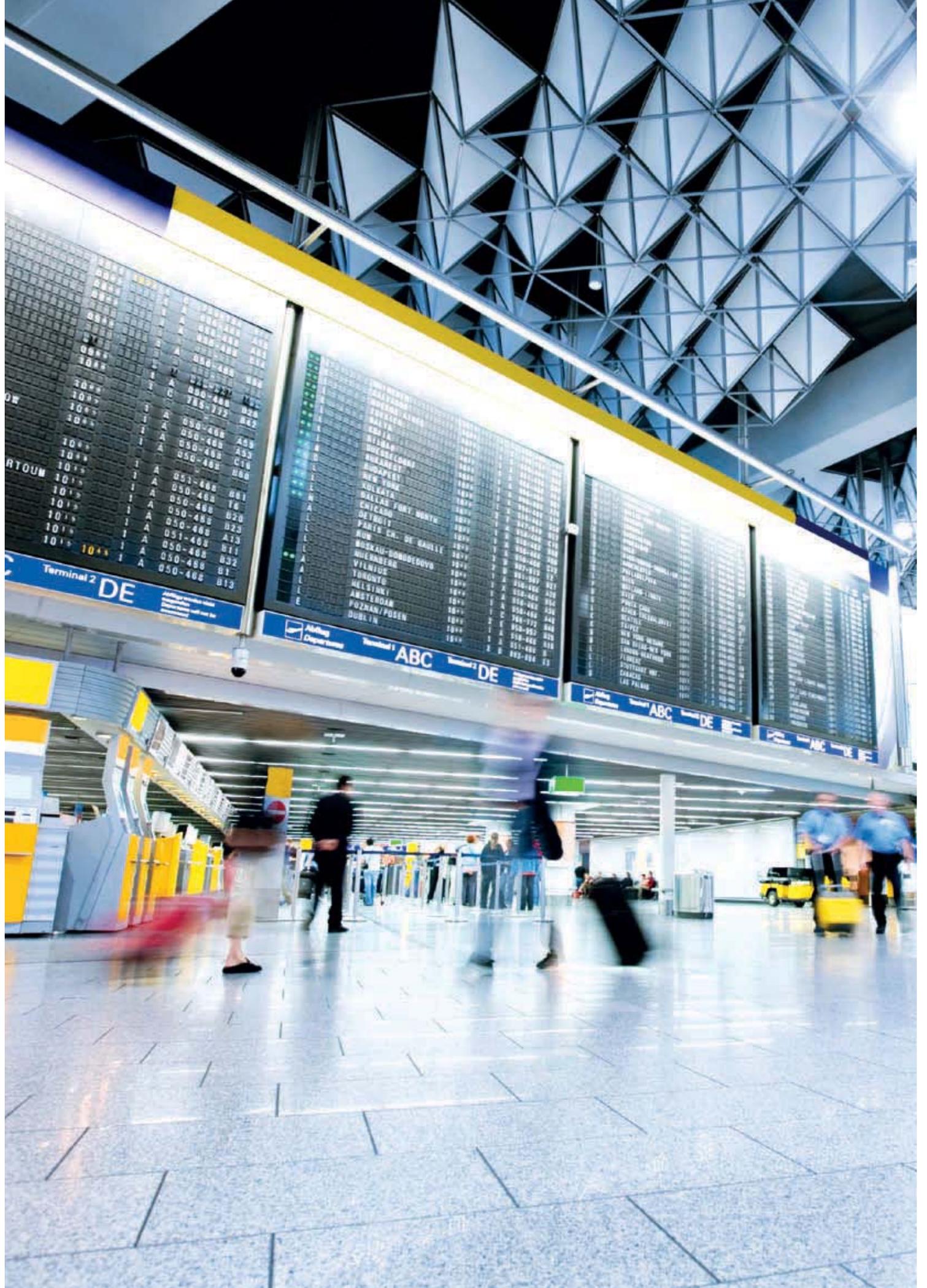
Regardless of your size, you can’t afford for your critical business systems to go down and you can’t waste time recovering your IT infrastructure after a disruption.

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.

That’s why we can say we OptimizeIT!







Liebert® NXC From 10-20 kVA

Features and Performances

- 0.9 output power factor
- Double conversion efficiency over 94%
- Eco mode efficiency up to 98%
- Active input power factor correction (PFC)
- Input current total harmonic distortion (THDi) < 5%
- 4.5 kW battery charger
- Input/output and bypass circuit breakers
- Integrated manual bypass
- Integrated parallel load bus and synchronization port (LBS)

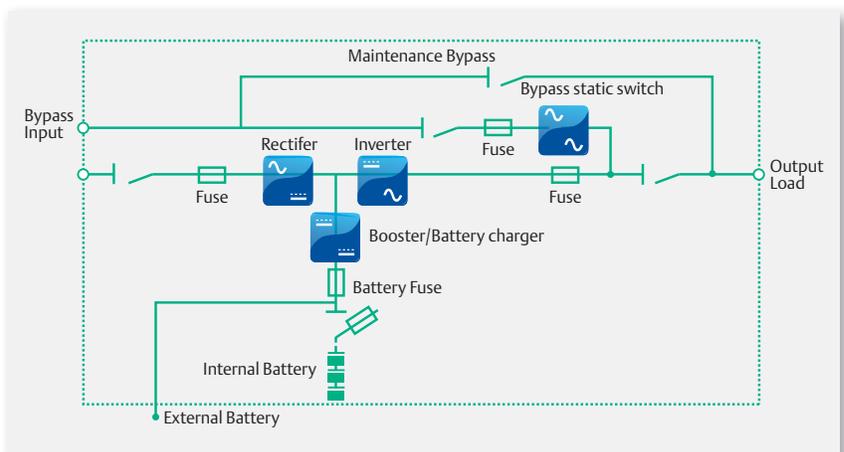
Compact, Reliable Power

Liebert® NXC offers reliable and flexible secure power in a fully integrated package solution. It comes complete with highly efficient transformer-free double conversion technology allowing it to provide installation and running cost savings.

With a rated output power factor of 0.9 Liebert® NXC is also able to provide 11% more active power than a traditional 10-20 kVA UPS. 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.

Liebert® NXC achieves over 94% efficiency in double conversion mode and up to 98% in Eco mode ensuring effective load protection while reducing the total cost of ownership (TCO) and environmental impact.



Liebert® NXC single-line diagram



Flexibility

Liebert® NXC is a compact solution designed to optimize installation space requirements and provide enhanced flexibility to ensure superior protection for all load types (leading and lagging).

Its low THDi (< 5%) and active input power factor correction ensure that the UPS absorbs less current from the upstream distribution network, thus eliminating the need for oversizing gensets and other equipment.

Everything from installation and electrical infrastructure requirements to energy consumption and real estate costs have been taken into consideration to deliver this flexible solution.

Liebert® NXC's flexibility is further enhanced through:

- **Full galvanic isolation option ***
- **Single and three phase output configuration options**
- **Common or distributed battery bank**
- **Reduced footprint**

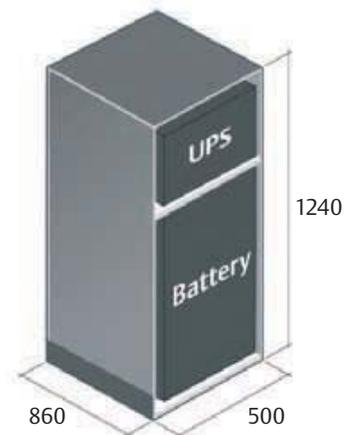
Output Configuration

Liebert® NXC 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.

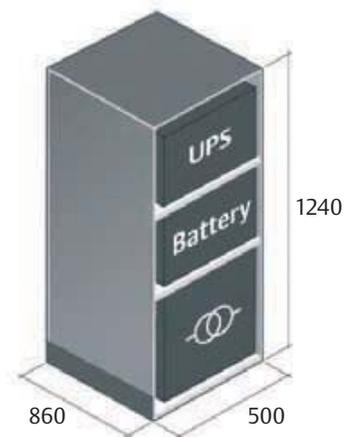
Full Galvanic Isolation *

Liebert® NXC offers integrated full galvanic isolation, meaning that an isolation transformer is housed inside the UPS cabinet. This greatly reduces the footprint thus providing space saving advantages. In addition, the transformer can 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.**



UPS with fully integrated battery



UPS with integrated isolation transformer and battery

*Please consult Emerson representative for galvanic isolation configuration



In The Field

Integrated autonomy

Liebert® NXC provides an excellent integrated autonomy which results in back up times of up to one hour.

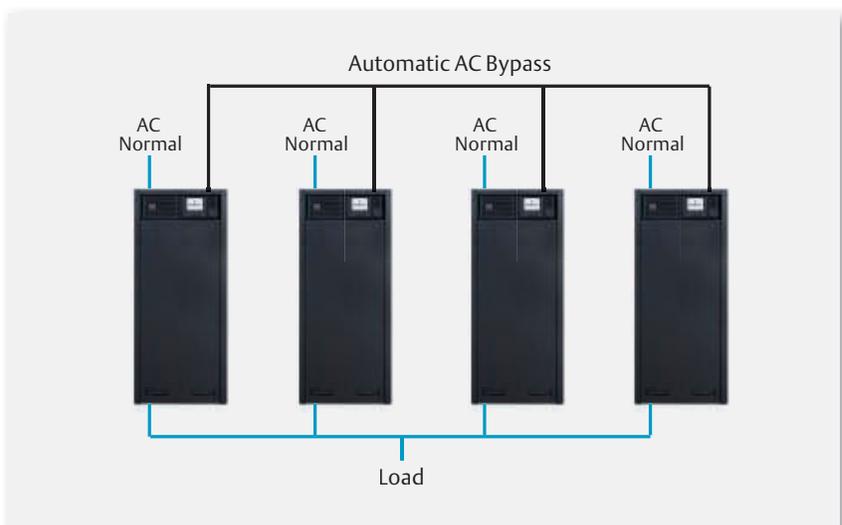
The batteries housed inside the UPS cabinet which are responsible for delivering Liebert® NXC's integrated autonomy have the added advantage of virtually eliminating the need for an external battery cabinet, further reducing installation costs and minimizing the demand on physical space.

The powerful 4.5 kW battery charger of the Liebert® NXC allows the reduction of battery re-charging time and increases its ability to manage longer back up times.

Parallel Ready

Liebert® NXC can be connected with up to four units in parallel, one of which is redundant. A single unit can be upgraded to parallel operation via easy to modify software settings which allow 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.



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**
- **Internal Intellislot for SNMP or Modbus communication.**

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

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.

LiebertNform™ 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 ease of movement and relocation.



Connectivity cards



Chloride LIFE[®].net 24/7 Remote Diagnostic System

Chloride LIFE[®].net ensures that your critical power protection system is maintained in an optimum state of readiness at all times. Chloride LIFE[®].net remote monitoring and diagnostic service provides early warning of UPS conditions and out of tolerances. This allows effective proactive maintenance and fast incident response, giving customers complete security and peace of mind.

Maximize Availability

Pre-Emptive Maintenance

Chloride LIFE[®].net provides early warning of more than 150 separate parameters allowing real-time diagnosis and swift identification and resolution of operating anomalies.



Minimize Downtime

Immediate Identification of Problems

Should an emergency condition arise, an engineer in the 24/7 manned 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, Chloride LIFE[®].net's detailed reporting system provides valuable information on power and equipment trends, over any selected period of time.



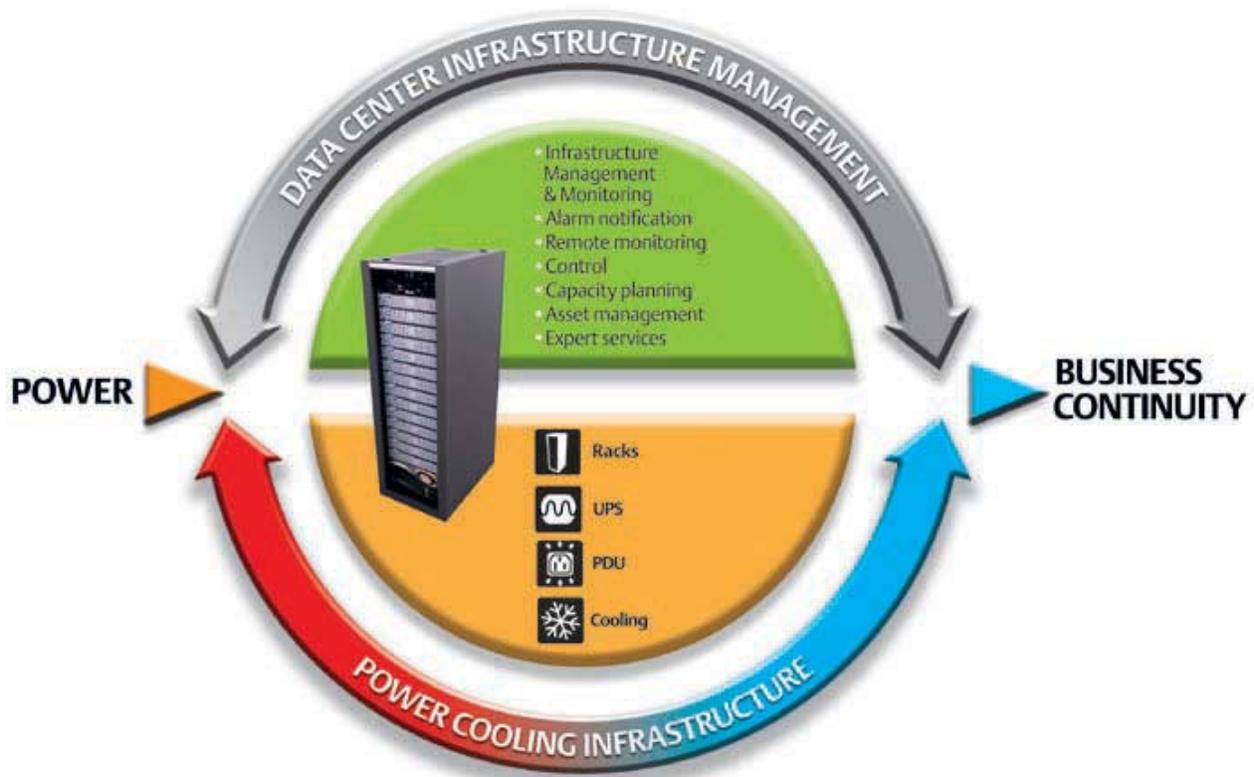
Liebert® NXC

Specifications

Technical Characteristics (3/3 and 3/1 configurations)			
Ratings (kVA)	10	15	20
Output active power	9	13.5	18
Output power factor	0.9	0.9	0.9
Parallel configuration	3+1		
Input			
Input voltage range at full load (V)	228 - 478	266 - 478	304 - 478
Bypass voltage tolerance (%)	selectable within -40% +20%		
Input frequency tolerance (Hz)	40 - 70	40 - 70	40 - 70
Input power factor	0.99	0.99	0.99
Output			
Nominal output voltage-single phase (V)	220/230/240		
Nominal output voltage - three phase (V)	380/400/415		
Nominal output frequency (Hz)	50 / 60		
Frequency synch. range (Hz)	2 Hz (selectable 0.5 - 3 Hz)		
Frequency track rate (Hz)	1 Hz		
Inverter overload capacity (%)	105% continuous; 125% 5min ; 150% 1 min		
Double conversion efficiency (%)	>94%	>94%	>94%
Eco mode efficiency (%)	up to 98%		
Battery			
Battery charger max power (kW)	4.5	4.5	4.5
Number of battery cells per string	32 (compatible also with strings of 30, 34, 36, 38, or 40 batteries)		
Ripple current (%)	<5% C ₁₀		
General			
Noise at 1 m (dBA)	<58		
Protection level	IP21		
Frame color	ZP-7021		
Display	graphic multi-lingual LCD		
Dimensions And Weight			
Height (mm)	1240		
Width (mm)	500		
Depth (mm)	860		
UPS weight (kg)	115		
Integrated autonomy (min)			
Basic (1x32x9Ah)	10	5	-
Standard (2x32x9Ah)	26	15	10
Extended (3x32x9Ah)	45	27	18
Maximum (4x32x9Ah)	65	40	26
Galvanic isolation option*			
Input / Output	yes / yes	no / no	yes / yes

* Conditions Apply

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.com



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.

Emerson Network Power, a business of Emerson (NYSE:EMR), is the global leader in enabling *Business-Critical Continuity™* from grid to chip for telecommunication networks, data centers, health care and industrial facilities. Emerson Network Power provides innovative solutions and expertise in areas including AC and DC power and precision cooling systems, embedded computing and power, integrated racks and enclosures, power switching and controls, infrastructure management, and connectivity. All solutions are supported globally by local Emerson Network Power service technicians.

Learn more about Emerson Network Power products and services at www.EmersonNetworkPower.com.

This publication is issued to provide outline information only and is not deemed to form part of any offer and/or contract. The company has a policy of continuous product development and improvement, and we therefore reserve the right to vary any information without prior notice.

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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

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