

Compact and Reliable Power in a Fully Integrated Packaged Solution

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.

Continuous Reliability:

The Liebert® NXC 10 - 200 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 up to 1, Liebert® NXC is also able to provide greater active power than a traditionally rated 0.9 power factor UPS.

Liebert® NXC achieves up to 96% efficiency in double conversion mode and up to 99% in ECO mode, thus ensuring effective load protection, while reducing the total cost of ownership (TCO)

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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 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.

Features and Performances:

- Output power factor up to 1
- Double conversion efficiency up to 96%
- ECO mode efficiency up to 99%
- Input current total harmonic distortion correction (THDi) < 3%
- Battery charger up to 50 A
- Integrated manual bypass
- Integrated input and output breakers/switches (10-60 kVA)
- Integrated parallel load bus and synchronization port (LBS)



Liebert NXC Family

Liebert® NXC Specifications

RATINGS (KVA)	10	15	20	30	40	60	80	100	120	160	200	
INPUT												
Nominal input voltage (V)	380/400/415											
Input voltage range without battery discharge (V)	305 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%)	<5							<3				
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			Max: 264; Min: 180					
Voltage temperature compensation (mV/°C/Cell)	-3.0 (selectable 0 to -5.0 around 25°C or 20°C or inhibit)								-3.0 (selectable from 0 to -5.0 around 25°C to 30°C, or inhibit)			
Battery charger max. power (kW)	4.5		6		7.5		12		18		24 30	
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	54	80	100	120	160	200	
THDv with 100% linear load (%)	2											
Inverter overload capacity	105% for 60 min; 125% for 5 min; 150% for 1 min; >150% for 200ms						105% with continuous operation; 125% for 10 min; 150 for 1min; >150% for 200ms					
Double conversion efficiency	100%	94.4%	94.5%	94.2%	94.7%	94.4%	95.3%	95.7%	95.7%	95.6%	95.5%	95.3%
	75%	94.0%	94.4%	94.5%	94.8%	94.7%	95.5%	95.9%	95.9%	95.8%	95.7%	95.7%
	50%	93.5%	94.0%	94.4%	94.6%	94.8%	94.0%	95.9%	95.8%	95.9%	95.8%	95.8%
	25%	90.5%	92.9%	93.5%	91.7%	93.6%	94.0%	95.0%	94.7%	95.0%	94.9%	94.9%
ECO mode efficiency (%)	98.0%						99.0%					
DIMENSIONS												
Dimensions (W x D x H) mm	500 x 860 x 1240			600 x 850 x 1600			600 x 1000 x 1600			600 x 1000 x 2000		
WEIGHT												
(excluding battery) kg	115/145		210/245		225/260		385/435		430/480		475/525 520/570	
(including 32 batteries) kg	215/245		600/635		615/650		N/A					
GENERAL												
Noise at 1 m (dBA)	≤56	≤56	≤58	≤56	≤58	≤58	≤59	≤60	≤60	≤61	≤62	
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											