

The Liebert NX is a true on-line, double conversion, mid-sized, 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 Liebert NX combines compact size, capacities up to 30 kVA (parallel up to three 20 or 30kVA units for capacity up to 60kVA or 90kVA, parallel up to four 20 or 30kVA units for redundancy), advanced operating features and low cost of ownership.



Features & Benefits

Flexibility:

- Power communications available through a Relay Contact Card, Liebert IntelliSlot™ Web Card and Liebert MultiLink™ shutdown software.
- Ultra-quiet performance with noise levels below 54dB allows greater latitude in where to place the unit.
- Large and user-friendly LCD display provides operating information in twelve languages.
- Up to three Liebert NX 20kVA or 30kVA modules can be paralleled for capacity and a fourth added for redundancy without using a centralized controller or centralized static switch.
- For safe and convenient servicing of the UPS, the Liebert NX includes a built-in maintenance bypass. An optional wrap-around maintenance bypass cabinet is also available.
- Easy servicing due to front accessibility of critical components, self-diagnostics and various monitoring options.

Higher Availability:

- True online double conversion technology corrects all types of power fluctuations.
- Advanced inverter control technology provides the highest output power quality.
- Redundant power supply cords, redundant cooling fans and highly efficient cooling of critical components.
- Minimized transfer to battery, reducing the number of charging and discharging cycles, due to the wider input voltage window of +10 to -20% and a frequency tolerance of 40Hz to 72Hz.
- Compatibility with dual bus synchronization system enables you to transfer the load to an alternate power source for maintenance activities.
- High overload rating handles 125% for 10 minutes, 150% for one minute and a 1000% overload for 10 milliseconds.
- An intelligent battery management algorithm monitors the battery to detect any premature battery failure.

Lowest Total Cost Of Ownership:

- Temperature-compensated battery charging extends battery life.
- Highest possible input power factor for maximum efficiency.
- Adjustable power walk-in from 5 seconds to 30 seconds, along with reduced input current distortion and power factor correction, also enables you to save money by reducing backup generator sizing requirements.
- The unit's compact footprint requires less floor space, leaving you with more room for other equipment.

| Frequently Asked Questions | |
|--|---|
| Question | Resolution |
| Besides providing backup when the electricity goes out, does the Liebert NX take care of all power problems? | Yes. It utilizes true on-line double conversion technology that corrects all types of power fluctuations. |
| Is it more expensive to operate than several UPS systems? | The Liebert NX actually offers a lower total cost of ownership than many smaller UPS units. Longer battery life and scheduled maintenance ensure proper system operation and prevent the costs of downtime. |
| What if the UPS fails — will all my systems go down? | The Liebert NX features a built-in automatic bypass that allows the unit to provide power even if a component fails. |
| What if the batteries suddenly fail and the equipment is without protection? | The Liebert NX utilizes an intelligent battery management system that monitors the battery to detect any premature battery failure. |
| How reliable is the Liebert NX? | The Liebert NX features built-in reliability with a redundant auxiliary power supply board and redundant cooling fans. |

Competitive Comparison

The Liebert NX offers a number of advantages over the competition, making the Liebert NX UPS the ideal UPS for mission critical applications.

| Feature | Liebert NX 10-30 kVA | Mitsubishi 2033C | Powerware 9355 | APC SmartUPS-VT | The Liebert Advantage |
|---|--|---------------------------|--|---|---|
| Battery Use Permissible Input Voltage Range (VAC) | +10% -40% | +15%, -25% | Input Voltage Range -15%, +10% from nominal at 100% load without depleting battery | Input voltage range for main operations 165 - 240V | Less battery use means fewer battery replacements and results in a lower total cost of ownership. |
| Audible Noise | 0% = 50.5dB, 100% linear load = 51.5dB, 100% non linear load = 51.7 dB | "low acoustic noise" | Audible Noise: <58 dBA at 1 meter depending on load | Audible noise at 1 meter from surface of unit - 54 to 58 dBA, depending on capacity | You can utilize an NX in an office environment. |
| Handling Of Overload Conditions | 125% for 10 minutes 150% for 1 minute | 105% to 150% for 1 minute | 150% for 5 sec 125% for 1 min (online), 110% for 10 min | 125% for 1 minute, 150% for 30 seconds | The user can connect a load to the NX without worrying about driving the UPS into bypass or shutdown. |
| Easy to install | Compact design, integral battery | All in one design | All in one design | All in one with internal modules | In many cases, your customer's facility people can install it to keep their costs down. |

Liebert NX UPS (10-30 kVA)



Liebert NX Bundles

| Liebert NX UPS | General Description | Quantity of Liebert NX UPS* | kVA/kWatts | External Battery Cabinet | SNMP Card Ø | System Paralleling Cabinet § |
|----------------|---|-----------------------------|--------------------------|--------------------------|-------------|------------------------------|
| 38SB030C0CHR ✓ | Parallel UPS system rated 30kVA to 90kVA redundant, 208/120V input, 208/120V output | 1 to 4 | 30/24 to 90/72 Redundant | 38BP030RHR1BNS | IS-WEBLB | 38SC030CC64UR0T |
| 38SB020C0CHR ✓ | Parallel UPS system rated 20kVA to 60kVA redundant, 208/120V input, 208/120V output | 1 to 4 | 20/16 to 60/48 Redundant | 38BP020RHR1BNS | IS-WEBLB | 38SC020CC64UR0T |

| Liebert NX UPS | Liebert FPC | Liebert FDC | Slimline Distribution Cabinet ∞ | Paralleling Cable ¶ | * Add additional UPS modules for capacity or redundancy Ø Optional — for monitoring UPS via web browser or SNMP | ∞ Optional output distribution cabinet ¶ Required when paralleling UPS. One kit required per UPS. |
|----------------|-------------|-------------|---------------------------------|---------------------|--|--|
| 38SB030C0CHJ ✓ | n/a | FDC4412SB10 | 38DU030C5G000 | 531614-10 | | |
| 38SB030C0CHJ ✓ | n/a | FDC4412SB10 | 38DU030C5G000 | 531614-10 | § Available for 20 kVA | |

✓ Required Components

Liebert NX Related Products



Liebert NX Extended Battery Cabinet

Liebert NX extended battery cabinets are available when longer backup time is critical to protected loads.



Liebert Maintenance Bypass Cabinet

These matching enclosures bolt to the left side of the UPS module and provide “make-before-break” operation to and from maintenance bypass via a single rotary switch without the need for interlocking schemes.



Liebert NX Slimline Distribution Cabinet

Includes one 42-pole panelboard for mission critical load distribution from the UPS output. Panelboard includes a main circuit breaker. The standard Liebert Slimline distribution cabinet is designed as a bolt-on section to the UPS module cabinet, or the Liebert Maintenance Bypass Cabinet, if supplied.

Specifications

| | 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 |
|--------------------------------------|---|-----------|-----------|-----------|-----------------------------------|---|-------------------------------------|--|
| Models | | | | | | | | |
| 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 |
| Input AC Specifications | | | | | | | | |
| 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 |
| General Specifications | | | | | | | | |
| UPS Technology | On-Line, Double Conversion | | | | N/A | N/A | N/A | N/A |
| Battery Specifications | | | | | | | | |
| 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 |
| Output AC Specifications | | | | | | | | |
| 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) |
| User Interface | | | | | | | | |
| LCD Display | Yes | | | | N/A | N/A | N/A | N/A |
| Communications | | | | | | | | |
| Communications Options | Intellislots, SNMP, Relay Card, MultiLink | | | | N/A | N/A | N/A | N/A |
| Physical Data | | | | | | | | |
| 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) |
| Environmental | | | | | | | | |
| 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 1 meter | | | | N/A | N/A | N/A | N/A |
| Cooling | Fan Cooled | | | | Convection Cooled | Convection Cooled | Convection Cooled | Convection Cooled |
| Agency/Certification/Conformance | | | | | | | | |
| Agency Approval | UL 1778, c-UL, FCC Class A | | | | UL 1778, c-UL, FCC Class A | UL 1778, c-UL, FCC Class A | UL 1778, c-UL, FCC Class A | UL 1778, c-UL, FCC Class A |
| Warranty | | | | | | | | |
| Standard | 1 Year | | | | 1 Year | 1 Year | 1 Year | 1 Year |



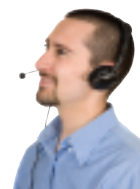
Liebert IntelliSlot Web Card
The Liebert IntelliSlot Web Card delivers SNMP and web-management communications capability to a Liebert NX UPS.



Liebert MultiLink® Shutdown Software
Liebert MultiLink software monitors battery status and warns users of impending power loss and automatically shuts down systems in a safe and orderly manner.



Liebert Nform
A simple to use monitoring and communications software solution that combines network monitoring of power and cooling equipment.



Installation And Service
Only Emerson can provide the industry's largest, most experienced service organization with a proactive approach that prevents failures and extends equipment life.