

Always On™

UPS Systems Canada Inc.



Leading Manufacturer of Uninterruptible
Power Supplies & Power Conditioning Equipment

www.AlwaysOn.com

A technician in a grey shirt is working on a server rack in a data center. The rack is filled with various components, including cables and modules. The background is slightly blurred, showing other server racks and equipment.

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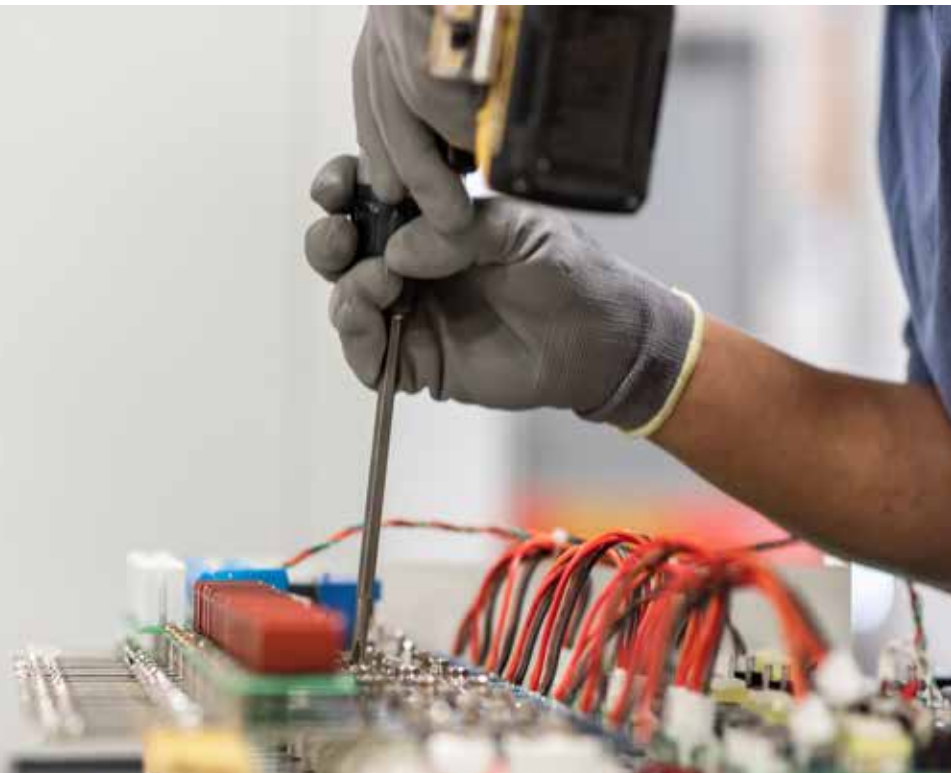
ABOUT ALWAYS ON UPS

We are an uninterruptible power systems design and manufacturing company specializing in engineering industrial uninterruptible power systems for all applications. We take the details of your project including required backup time, type of environment that your UPS will be in, and the space you have to house the system. Then our engineers design a reliable, high quality uninterruptible power system to meet your needs. After the design of the system, our technicians build, test, and certify your system exactly to specification right here in our factory.

OUR MISSION

Always On UPS is dedicated to maintaining the highest standard of quality, safety, and sustainability while providing products and services that are unparalleled within our industry and deliver premium value to our customers.

This commitment provides a clear pathway for the continued success and growth of our company.



WHAT IS A UPS?

An uninterruptible power system is a system that provides emergency power to a load when the main input power source fails. The main input source can fail due to issues such as utility power outages, or generator failures. The UPS kicks on with no interruption and keeps your load up and running for a set period of time so you can set up an alternate source of power, shut down your devices correctly, or repair your main power source. We strive for our systems to always provide perfect power in all situations to protect all types of loads.



INDUSTRIES WE SERVE

We serve and work with a wide range of industries including, but not limited to: government; oil, gas and mining; rail and marine transportation; public transit facilities; airports and airplane manufacturing; hospitals, labs and operating rooms; schools; data centers; army, navy, marines, and air force; public utilities; residential and commercial building; and even nuclear and other power generating plants.



QUALITY POLICY

Every Always On design incorporates the most efficient and robust devices and system components to provide the highest degree of protection possible for all critical and emergency equipment installations. Extensive experience working on high profile projects, combined with industry leading expertise allows Always On UPS Systems Canada Inc. to custom engineer solutions and manufacture the highest quality uninterruptable power supply and power conditioning products.

Always On is pleased to provide complete solutions. These include all modes and levels of protection being designed into each system we build, eliminating the need for additional equipment to be added. We provide a custom-engineered solution to meet our customer's needs. Ensuring protection and power quality through every mode of operation requires coordination between all system components. These include surge protection devices, inverters, batteries, battery chargers, bypass systems, transfer switches and power distribution units.

Always On products are put into service by many world renowned companies who rely on our expertise and the high reliability of our systems to protect their critical installations. These include industries such as the oil, gas, and mining industries, airplane and other manufacturing plants, hospitals and operating rooms, rail and marine transportation systems, data centers, army, navy, marines, and air force military divisions, nuclear and other power generating plants, public utilities, and emergency systems for buildings.

It is the objective of Always On to provide our customers with the most cost effective, reliable, state of the art UPS and power conditioning products while continuing quality service to the highest degree. We strictly adhere to an ISO 9001 Quality Management System and we work closely with our suppliers to keep them informed of the specific controls we have implemented to ensure the quality of the supplied materials never compromises the performance or functionality of our products. Every employee and manager at Always On takes great pride and personal interest to ensure that all stages of each product are carefully completed to the highest degree of quality within our ISO 9001:2015 certified facility. This QMS certification, along with our numerous safety approvals, gives us the confidence to present Always On as one of the leading UPS manufacturers in the industry.



Deborah Bannister

General Manager

Always On UPS Systems Canada Inc.

N & TN11 SERIES

The Always On N & TN Series UPSs are designed to provide compact, reliable, dual conversion backup power for all of your important equipment!

The N and TN11 Series are dual conversion UPS systems that convert incoming AC supply to DC power. The DC power is used to charge the batteries and supply the inverter. The inverter then inverts the DC power into AC power, that in turn is supplied to the load. This dual conversion isolates the line from AC supply and allows for a wide input power variation on both frequency and voltage. Systems in single phase output configurations range from 700VA to 20kVA.



FEATURES & BENEFITS

WIDE INPUT RANGE

These systems are designed to function at wide voltage and frequency variations. This makes our systems ideal for generator and problematic area applications.

INTELLIGENT COMMUNICATION INTERFACE

These UPSs are equipped with a RS232 and dry contact interface port for which we provide various powerful management software programs.

SELF-MANAGEMENT USING MICROPROCESSOR

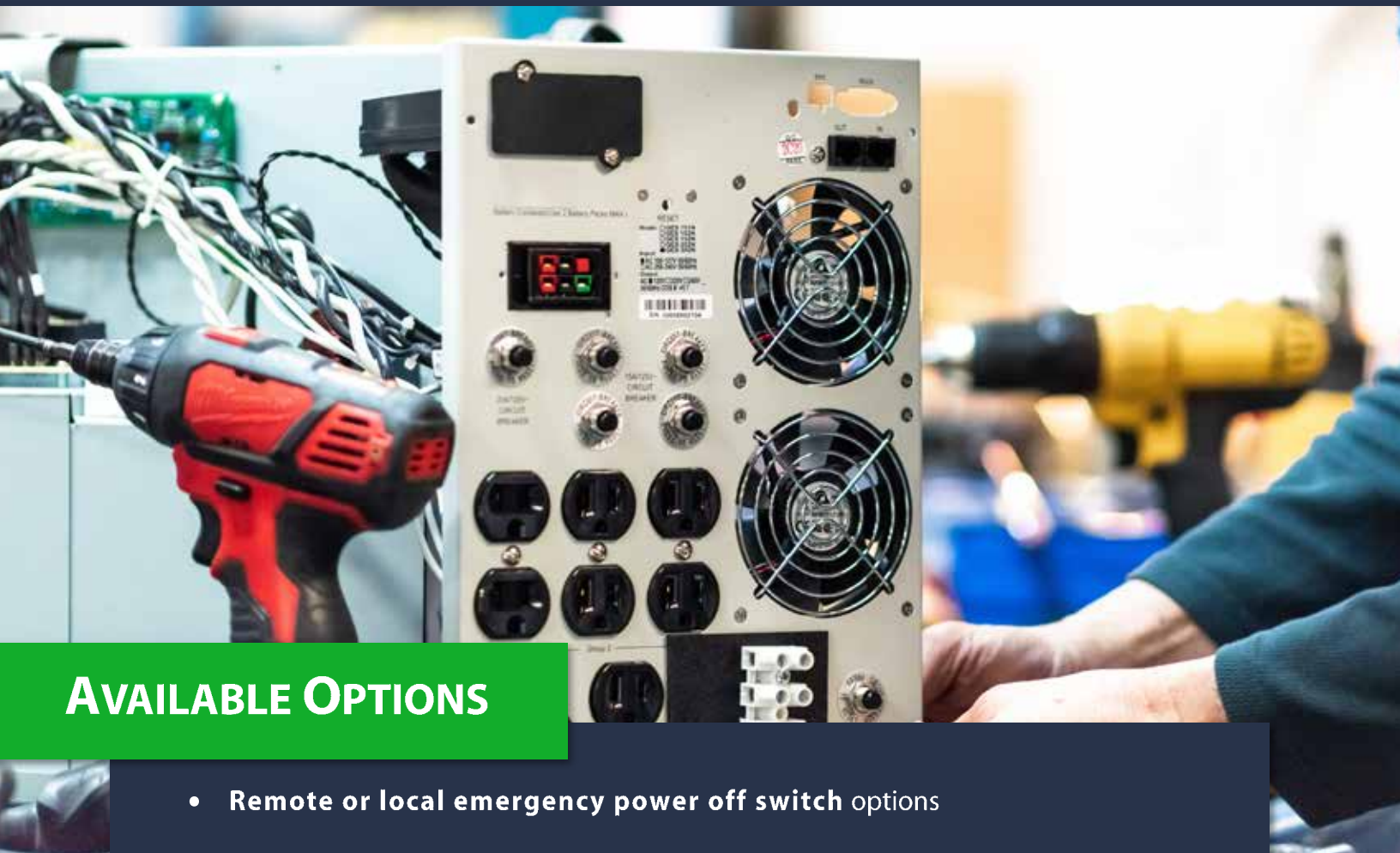
These systems perform self-diagnosis to ensure continuous runtime, identify and report failures, and prevent full discharge of the batteries to extend battery performance and life.

AUTO RESTART FUNCTION

This feature allows the UPS to restart automatically when utility becomes available, provided it has been shutdown due to and extended blackout.

HIGH EFFICIENCY MODE

Adds cost effectiveness by reducing power consumption and detecting irregularities in less than a millisecond.



AVAILABLE OPTIONS

- **Remote or local emergency power off switch** options
- **Remote LCD** to give you more options for system monitoring
- **Generator and frequency converter modes**
- **SNMP or AS400** to give you more options for remote system monitoring
- **Extended runtime** to meet your backup time requirements
- **External bypass** allows the UPS to be completely shut down or removed for maintenance safely with no downtime
- **Hardwire connections** for installation flexibility
- **Rackmount** for more flexibility in mounting your unit
(up to 3KVA)
- **Side-mount** for more flexibility in storing your unit
(shown on the right)



N SERIES SPECIFICATIONS

Specifications are subject to change without notice to reflect upgrades and improvement in technology.

| True Sine Wave On-Line UPS 700VA-3kVA | | | | | | |
|---------------------------------------|-----------------------------|--|-------------|--------------|--------------------------------|--------------------------------|
| N Series Model Number : | | GES-701N | GES-102N | GES-152N | GES-202N | GES-302N |
| General | Maximum Capacity | 700VA/490W | 1000VA/700W | 1500VA/1050W | 2000VA/1400W | 3000VA/2100W |
| | UPC Order Code | 30100 | 30200 | 30300 | 30400 | 30500 |
| Input | Nominal Voltage | 120Vac (optional 220Vac available) | | | | |
| | Voltage Range | 60Vac/40% load, 70Vac/70% load, 80 Vac/100% load—144Vac | | | | |
| | Bypass Voltage | ±10%, +10/-15%, +15/-20% (user selectable) | | | | |
| | Frequency Window | 45-65Hz (±2%, ±5%, ±7% - user selectable) | | | | |
| | Synchronization Window | ±3Hz | | | | |
| | Power Factor | 0.99 | | | | |
| Output | Output Voltage | 100/110/115/120/127Vac (user selectable) or 208/220/230/240Vac (user selectable) | | | | |
| | Voltage Regulation | ±2% | | | | |
| | Frequency Regulation | ±0.25Hz (battery or free run mode) | | | | |
| | Voltage Distortion—THD | <3% linear load, <5% non-linear load | | | | |
| | Max Current @ 120Vac | 5.8A | 8.2A | 12.4A | 16.5A | 24.7A |
| | Overload Capacity | 125% for 1 min, 150% for 10 sec | | | | |
| | Crest Factor | 3:1 | | | | |
| | Efficiency | >98% (high efficiency mode) | | | | |
| | Transfer Time | Zero | | | | |
| | Outlets | 6x5-15R | | | 8x5-15R 2x5-20R 1xL5-20R | 8x5-15R 2x5-20R 1xL5-30R |
| Battery | Battery Type | Sealed lead acid, maintenance free, swappable cartridge | | | | |
| | Quantity | 2 | 3 | 3 | 6 | 6 |
| | Voltage | 24Vdc | 36Vdc | 36Vdc | 72vdc | 72Vdc |
| | Recharge Time | <4 hours to 90% recovery | | | | |
| | Advanced Battery Management | Auto self-test, temp compensated 3 stage charging, load dependent discharge | | | | |
| | Backup Time—full load | 9min | 10min | 8min | 12min | 8min |
| | Extended Runtime | Available | | | | |
| Protection | Output Short | Yes | | | | |
| | Abnormal Voltage | Yes | | | | |
| | Abnormal Frequency | Yes | | | | |
| | I/O Noise Protection | Common and normal noise suppression | | | | |
| | Spike and Transient | Yes | | | | |
| | Telephone/Network | RJ11/RJ45 | | | | |
| | Display | LCD/LED—Status, readings, and setup parameters | | | | |
| | Audible Alarms | On battery, low battery, overload, fault | | | | |
| | Communications | Options: USB, RS232, Dry contact, SNMP, AS400 | | | | |
| | Emergency Power Off | Yes, via normally closed contact | | | | |

| True Sine Wave On-Line UPS 700VA-3kVA | | | | | | |
|---------------------------------------|-----------------------|--|--------------|--------------|-----------------------------|--------------|
| N Series Model Number : | | GES-701N | GES-102N | GES-152N | GES-202N | GES-302N |
| Environment | Operating Temperature | 0°C to 40°C (32°F to 104°F) | | | | |
| | Humidity | 0-95% (non-condensing) | | | | |
| | Audible Noise | <40dBA at 1 meter | | | | |
| Conformance | Approvals | UL1778, CSA107.3 , UL listed, cUL listed, (optional ABS—see below) | | | | |
| | Surge/Transient | IEEE C62.41 CAT.A | | | | |
| | EMI/RFI | FCC Part 15 | | | | |
| | Warranty | Two year factory warranty (optional extendable warranties available) | | | | |
| Physical Data | WxDxH mm (in) | 152x413x238 (6x16.3x9.4) | | | 225x410x358 (8.9x16.1x14.1) | |
| | Weight in kg (lbs) | 13.5 (29.7) | 16.2 (35.6) | 17 (37.4) | 31.6 (68.4) | 32.5 (71.5) |
| Rack Mount Models | Model # | GES 102NR | | GES 152NR | GES 202NR | GES 302NR |
| | UPC Order Code | 30202 | | 30301 | 30403 | 30501 |
| | WxDxH mm (in) | 482x635x84 (19x25x3.3) [2U] | | | | |
| | Weight in kg (lbs) | 18 (35.3) | 20 (44.1) | 25 (55) | 31.6 (68.4) | 32.5 (71.5) |
| Marine Grade Models | Model # | GES 701N ABS | GES 102N ABS | GES 152N ABS | GES 202N ABS | GES 302N ABS |
| | UPC Order Code | 30112 | 30231 | 30318 | 30401 | 30509 |
| | WxDxH mm | 254x413x256 | 254x413x256 | 254x413x256 | 330x406x381 | 330x406x381 |
| | Weight in kg (lbs) | 15 (33) | 20 (44) | 21 (46) | 37 (82) | 38 (84) |
| | Approval | ABS (American Bureau of Shipping), UL and cUL listed | | | | |

BATTERY BANK BACKUP TIMES

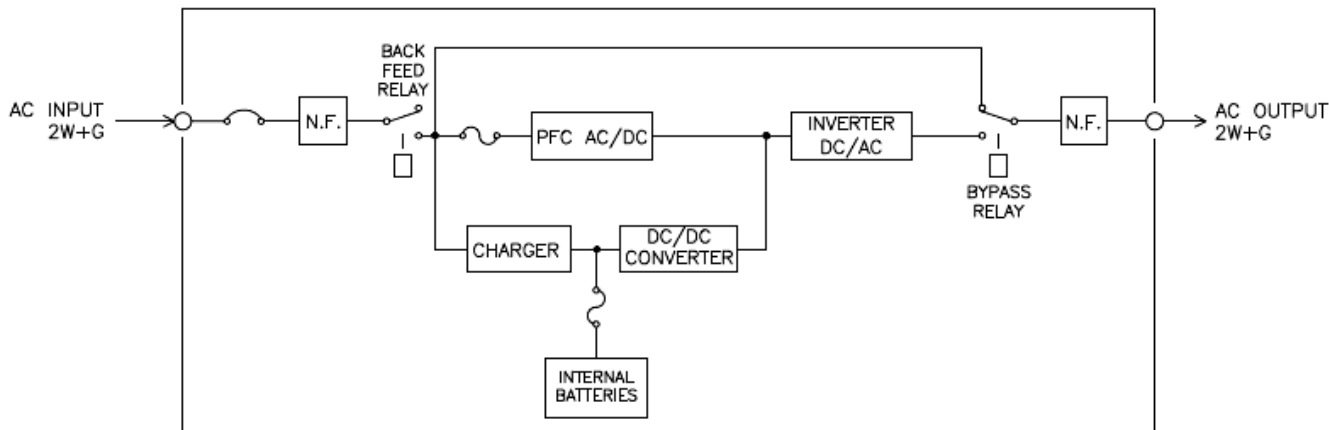
| Load | 490W | 700W | 1050W | 1400W | 2100W |
|-----------|---------|--------|--------|--------|--------|
| | 700VA | 1000VA | 1500VA | 2000VA | 3000VA |
| Model | | | | | |
| BBU-701NA | 17 min | | | | |
| BBU-701NB | 33 min | | | | |
| BBU-102NA | 25 min | 17 min | | | |
| BBU-102NB | 50 min | 33 min | | | |
| BBU-102NC | 100 min | 60 min | | | |
| BBU-152NA | 25 min | 17 min | 13 min | | |
| BBU-152NB | 50 min | 33 min | 20 min | | |
| BBU-152NC | 100 min | 60 min | 40 min | | |
| BBU-202NA | | | | 18 min | |
| BBU-202NB | | | | 60 min | |
| BBU-202NC | | | | 90 min | |
| BBU-302NA | | | | 18 min | 14 min |
| BBU-302NB | | | | 60 min | 40 min |
| BBU-302NC | | | | 90 min | 60 min |

N SERIES SPECIFICATIONS CONTINUED

Specifications are subject to change without notice to reflect upgrades and improvement in technology.

| BATTERY BANK SYSTEM DIMENSIONS | | | | | |
|--------------------------------|--------------------------------|-------------------------------|---------------------------------|--------------------------------|---------------------------------|
| Model | BBU-701NA | BBU-701NB | BBU-102NA | BBU-102NB | BBU-102NC |
| Cabinet Style | S | S | S | S | B |
| WxDxH mm (in) | 170x450x225 (6.75x17.75x9) | 170x450x225 (6.75x17.75x9) | 170x450x225 (6.75x17.75x9) | 170x450x225 (6.75x17.75x9) | 260x540x740 (10.25x21.25x29) |
| Weight kg (lb) | 20 (44) | 33 (73) | 23 (51) | 33 (73) | 67 (148) |
| Model | BBU-152NA | BBU-152NB | BBU-152NC | BBU-202NA | BBU-202NB |
| Cabinet Style | S | S | B | S | B |
| WxDxH mm (in) | 170x450x225 (6.75x17.75x9) | 170x450x225 (6.75x17.75x9) | 260x540x740 (10.25x21.25x29) | 170x450x225 (6.75x17.75x9) | 260x540x740 (10.25x21.25x29) |
| Weight kg (lb) | 23 (51) | 33 (73) | 67 (148) | 33 (73) | 102 (225) |
| Model | BBU-202NC | BBU-302NA | BBU-302NB | BBU-302NC | |
| Cabinet Style | C | S | B | C | |
| WxDxH mm (in) | 400x648x662 (15.75x25.5x26) | 170x450x225 (6.75x17.75x9) | 260x540x740 (10.25x21.25x29) | 400x648x662 (15.75x25.5x26) | |
| Weight kg (lb) | 179 (395) | 33 (73) | 102 (225) | 179 (395) | |

SINGLE LINE DRAWING



N.F. – NOISE FILTER

N SERIES UPS

TN11 SERIES SPECIFICATIONS

Specifications are subject to change without notice to reflect upgrades and improvement in technology.

| TN11 Series Model Number: | | GES-602TN11 | GES-103TN11 | GES-153TN11 | GES-203TN11 |
|---------------------------|--|---|---------------------------------|---------------------------------|---------------------------------|
| General | Maximum Capacity | 6kVA/4.2kW | 10kVA/7kW | 15kVA/10.5kW | 20kVA/14kW |
| | UPC Order Code | 40030 | 40200 | 40400 | 40500 |
| Input | Nominal Voltage | 208Vac or 240Vac | | | |
| | Voltage Range | 160-276 Vac | | | |
| | Phase | 1 Ø (2 wire+ground) | | | |
| | Frequency Range | 45-65Hz | | | |
| | Power Factor | ≤0.98 | | | |
| Output | Output Voltage | 120, 120/240, 110/220Vac (other configurations available) | | | |
| | Voltage Regulation | ±2% | | | |
| | Phase | 1 Ø (3 wire+ground) (other configurations available) | | | |
| | Max Current @ 240Vac | 25A | 41.7A | 62.5A | 83.3A |
| | Frequency Accuracy | 50Hz / 60Hz ±0.5Hz (auto-sensing) | | | |
| | THD | <3% linear load, <5% rectified load | | | |
| | Overload Capacity | 105%-150% for 10 seconds | | | |
| | Crest Factor | 3:1 | | | |
| | Efficiency (AC-AC) | >85% | | | |
| | Transfer Time | 0ms | | | |
| | Outlets | Hard-wired (other configurations available) | | | |
| Battery | Type | Sealed lead acid—maintenance free | | | |
| | Voltage | 240Vdc | | | |
| | Recharge Time | 5-8 hours; recover=90% typically | | | |
| Backup Power Time | Full Load | >10min | >4min | >8min | >4min |
| | Half Load | >25min | >13min | >19min | >13min |
| Extended Run Time | Available, consult "battery banks" section | | | | |
| Protection | Output Short | Yes | | | |
| | Abnormal Voltage | Yes | | | |
| | I/O Noise Protection | Common and Normal mode noise suppression | | | |
| | I/O Spike and Transient | Yes | | | |
| Interface | Communication | RS232/ dry contact/ options SNMP or AS400 | | | |
| | Display | LEDs and LCD status display | | | |
| | Audible Alarms | On battery, low battery, overload, fault | | | |
| Environment | Operating Temp | 0°C to 40°C (32°F to 104°F) | | | |
| | Humidity | 0-90% (non-condensing) | | | |
| | Audible Noise | 55dBA at 1 meter | | | |
| Safety Approval | Safety/Approvals | UL1778, CSA C22.2, UL and cUL listed, ABS | | | |
| | EMI/RFI | FCC Class A | | | |
| | Surge/Transient | IEEE C62.41 CAT.A | | | |
| Physical Data | WxDxH mm (in) | 257x644x700 (10.1x25.4x27.6) | 342x679x715 (13.5x26.7x28.2) | 342x800x900 (13.5x31.5x35.4) | 342x800x900 (13.5x31.5x35.4) |
| | Weight kg (lb) | 114 (251) | 250 (551) | 255 (562) | 265 (584) |

BATTERY BANK BACKUP TIMES

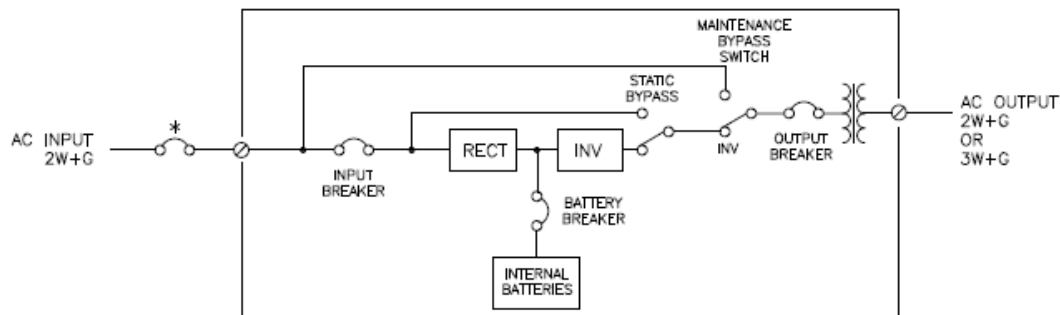
| Load | 6000VA | 8000VA | 10000VA | 12000VA | 15000VA | 20000VA |
|----------------|---------|---------|---------|---------|---------|---------|
| | 4200W | 5600W | 7000W | 8400W | 10500W | 14000W |
| Cabinet | | | | | | |
| D | 20 min | 16 min | 13 min | 11 min | | |
| E | 45 min | 32 min | 24 min | 18 min | 12 min | 7 min |
| KA | 55 min | 40 min | 30 min | 25 min | 15 min | 10 min |
| KB | 105 min | 75 min | 58 min | 45 min | 33 min | 20 min |
| KC | 155 min | 112 min | 88 min | 70 min | 50 min | 35 min |
| KD | 235 min | 170 min | 132 min | 105 min | 82 min | 60 min |
| KE | 385 min | 278 min | 214 min | 174 min | 130 min | 100 min |

BATTERY BANK SYSTEM DIMENSIONS

| Cabinet Style | D | E | KA | KB |
|-----------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|
| WxDxH mm (in) | 238x545x550 (9.375x21.5x21.625) | 400x666x1008 (15.75x26.25x39.75) | 813x864x1947 (32x34x76.625) | 813x864x1947 (32x34x76.625) |
| Weight kg (lb) | 80 (177) | 353 (777) | 611 (1347) | 740 (1632) |

| Cabinet Style | KC | KD | KE |
|-----------------------|-----------------------------|-----------------------------|-----------------------------|
| WxDxH mm (in) | 813x864x1947 (32x34x76.625) | 813x864x1947 (32x34x76.625) | 813x864x1947 (32x34x76.625) |
| Weight kg (lb) | 867 (1912) | 1004 (2214) | 1259 (2776) |

SINGLE LINE DRAWING



TN SERIES UPS

NX SERIES

The Always On NX Series Industrial UPS is designed to provide reliable, clean, consistent power to critical loads in all emergency applications.

The NX Series is a dual conversion, online system made for use as centralized power protection and distribution. It has a 3 phase input with 3 or 1 phase output, 5-250kVA power capacity range, internal maintenance bypass, and full galvanic isolation. The wide operating range of the system allows it to remain online without discharging or depleting the battery capacity. This makes it fully compatible with poor quality industrial electrical environments and unstable generators.



FEATURES & BENEFITS

CONVENIENT FRONT PANEL DESIGN

LCD display and control switches are accessible through the up, down, and enter switches below the front panel window and all viewable parameters can be read without opening the front door!



SHORT-CIRCUIT, OVER-TEMP & OVER-VOLTAGE PROTECTION

Protects your UPS against any form of misuse that may occur.

AUTOMATIC BATTERY TEST & BOOST CHARGING

Equalizes the recharging of batteries and extends battery life.

FULL GALVANIC ISOLATION

Proven solution to problems created by induced voltages affecting critical loads. This protection increases the lifespan of the equipment by reducing component wear caused by noise.

REMOTE CONNECTION

SNMP Module gives the convenience of real-time graphical display and allows for variability in method for viewing UPS data.



MODULAR DESIGN

Major components are installed on slide-out modules to allow for quick repair and easy accessibility.

MULTI-MCU DESIGN

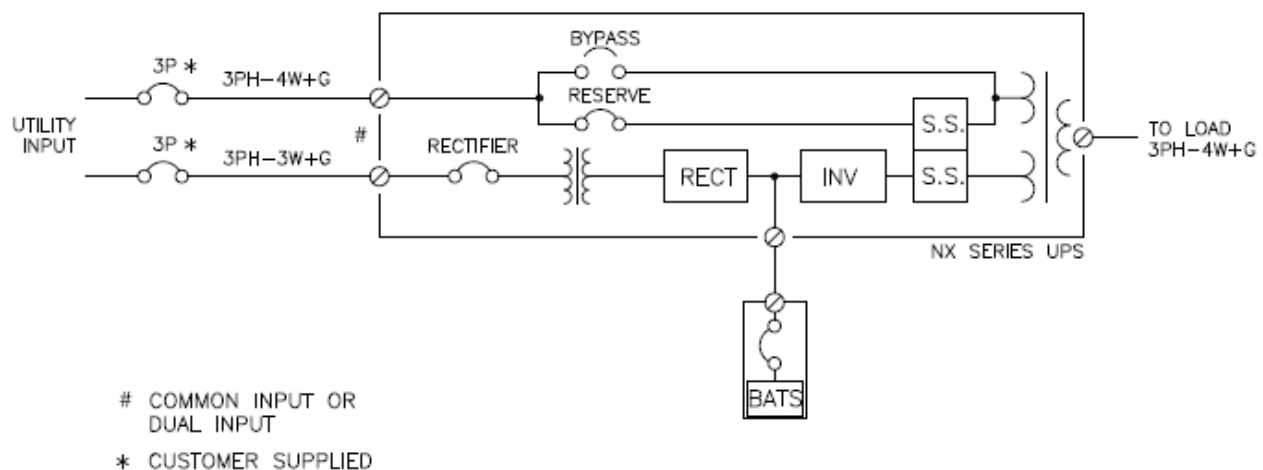
Increased reliability of all major sub-systems.

AVAILABLE OPTIONS

- **Power distribution panels**
- **Harsh environment protection** options available
- **Remote LCD display / control panel** for full monitoring and control of multiple UPSs
- **Top cable entry** module attached to the rear of UPS cabinet for convenience
- **Remote or local emergency power off switch** options
- **External bypass** allows the UPS to be completely shut down or removed for maintenance safely with no downtime
- **Parallel redundant operation** for the highest standard of reliability in mission critical applications
- **Modbus RTU interface** for SCADA or other industrial data transmitting applications



SINGLE LINE DRAWING



Specifications are subject to change without notice to reflect upgrades and improvement in technology.

| True Sine Wave On-Line UPS 5kVA-250kVA | | | | | | | | | | | | | | | |
|--|-----------------------------------|--|--|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| General Data | | | | | | | | | | | | | | | |
| Topology | | | True On-Line, Dual Conversion | | | | | | | | | | | | |
| Nominal output at PF=0.8 | | kVA | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 120 | 160 | 250 |
| Overall Efficiency | 100% load, 0.8 PF | % | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| True galvanic isolation from input to output | | | Yes | | | | | | | | | | | | |
| Operating temperature range | UPS | 0°C to 40°C (32°F to 104°F) | | | | | | | | | | | | | |
| | Battery | Optimal 20°C to 25°C (68°F to 77°F); higher temps reduce battery life expectancy. | | | | | | | | | | | | | |
| Relative humidity | | | 0% to 95%, non-condensing | | | | | | | | | | | | |
| Enclosure | Type | Indoor (NEMA 1 or 12 available); drip shield and skirting included. | | | | | | | | | | | | | |
| | Safety | Internal dead front construction | | | | | | | | | | | | | |
| | Cooling | Forced air—variable speed | | | | | | | | | | | | | |
| Installation | Rigging | Suitable for handling by forklift or overhead crane; eye hooks available | | | | | | | | | | | | | |
| | Mounting | Casters and levelling feet; optional seismic rated mounting available | | | | | | | | | | | | | |
| | Installation & maintenance access | Front and right-hand side access required for normal maintenance | | | | | | | | | | | | | |
| | Conduit access | Bottom entry standard; optional top entry | | | | | | | | | | | | | |
| Standards | | | UL 1778, CSA 107.3 listed, FCC Class A, Optional CSA 141, UL924, & ABS | | | | | | | | | | | | |

| Rectifier | | |
|---------------|----------------|---|
| Configuration | | 12 pulse rectifier |
| Input | Voltage | 208/480/600, L-L Vac, 3 Phase, 4 (or 3) wire + ground (-20% to 15% without battery discharge) |
| | Frequency | 45-65 Hz |
| | Power factor | 0.8 at full load |
| Output | Inrush current | Limited by soft-start circuit |
| | Power walk-in | 20 seconds |

| Battery | | | | | | | | | | | | | | |
|---|-----|---|-----------------------------|----|----|----|----|----|----|----|-----|-----|-----|-----|
| Nominal output at PF=0.8 | kVA | 5 | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 120 | 160 | 250 |
| Battery | | | Sealed lead-acid | | | | | | | | | | | |
| Voltage range | | | 295-410 Vdc | | | | | | | | | | | |
| Float voltage at 20°C (68°F) | | | 392 Vdc | | | | | | | | | | | |
| Boost charge voltage | | | 410 Vdc | | | | | | | | | | | |
| Recharge time for 30min battery to 95% capacity | | | 10 times the discharge time | | | | | | | | | | | |
| Auto and manual battery test | | | Standard | | | | | | | | | | | |

| External Interface | |
|--------------------|---|
| Alarm contacts | 8 pre-defined contacts (COM, BATL, BACKUP, BYPASS, SS, FAULT, OVL, INVON) |
| Communications | SNMP adapter, RS-232 & RS-485 |
| Input signals | Emergency power off contacts provided (optional switch available) |

Specifications are subject to change without notice to reflect upgrades and improvement in technology.

| Inverter | | kVA | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 120 | 160 | 250 |
|-----------------------------------|----------------------|---|----|----|----|----|----|----|----|----|-----|-----|-----|-----|
| Nominal output at PF=0.8 | | | | | | | | | | | | | | |
| Nominal output voltage | | 208/120 or 480/277 or 600/347, 3ph, 4 wire + ground | | | | | | | | | | | | |
| Inverter | | True Sine Wave | | | | | | | | | | | | |
| Output Isolation Transformer | | Standard | | | | | | | | | | | | |
| Output power factor | | 0.8 | | | | | | | | | | | | |
| Frequency lock range | | 50/60 Hz, $\pm 7\%$ | | | | | | | | | | | | |
| Output voltage tolerance | Static | $\pm 1\%$ | | | | | | | | | | | | |
| Output voltage distortion | 100% linear load | <2% THD maximum | | | | | | | | | | | | |
| | 100% non-linear load | <3% THD maximum | | | | | | | | | | | | |
| Crest factor capability | | Greater than 3:1 | | | | | | | | | | | | |
| Output Freq | Free running | 50/60 Hz, $\pm 0.1\%$ synchronized with utility | | | | | | | | | | | | |
| Overload capability (on inverter) | <110% | Continuous | | | | | | | | | | | | |
| | 110-125% | 15 minutes | | | | | | | | | | | | |
| | 125-150% | 5 minutes | | | | | | | | | | | | |
| | >150% | 30 seconds | | | | | | | | | | | | |
| Efficiency (100% load) | | 92% | | | | | | | | | | | | |

| Bypass | | |
|-----------------------|--------------------|---|
| Input configuration | | Common to rectifier [optional dual input] |
| Voltage range | | $\pm 20\%$ of input voltage |
| Frequency range | | 45-55 Hz / 55-65 Hz |
| Transfer time | Inverter to bypass | 0 ms |
| | Bypass to inverter | 0 ms |
| Overload capacity | 200% of UPS rating | 30 seconds |
| | 400% of UPS rating | 1 second |
| Isolation transformer | | Yes |

SYSTEM DIMENSIONS

| | 5-50 KVA UPS System | 60-160 KVA UPS System | 250-320 KVA UPS System | E-Type Battery Cabinet | K Series Battery Cabinet |
|--------|------------------------|--------------------------|---------------------------|---------------------------|-----------------------------|
| Width | 550mm (21.7") | 1100mm (44") | 2240mm (88.2") | 400mm (15.75") | 1314mm (51.5") |
| Depth | 812mm (32") | 812mm (32") | 812mm (32") | 666mm (26.25") | 850mm (33.5") |
| Height | 1600mm (63") | 1600mm (63") | 1600mm (63") | 1008mm (39.75") | 1945mm (76.5") |
| Weight | 380-850 kg | 920-1600 kg | 2700-3050 kg | 511 kg | 814-1764 kg |

BATTERY BANK BACKUP TIMES

| Load | 4000W | 8000W | 12000W | 16000W | 24000W | 32000W |
|------------|---------|---------|---------|---------|---------|---------|
| | 5000VA | 10000VA | 15000VA | 20000VA | 30000VA | 40000VA |
| Model | | | | | | |
| BBU-NX33E | 79 min | 34 min | 18 min | 13 min | 6 min | |
| BBU-NX33KF | 100 min | 44 min | 23 min | 18 min | 10 min | 5 min |
| BBU-NX33KG | 181 min | 80 min | 48 min | 32 min | 17 min | 10 min |
| BBU-NX33KH | | 120 min | 76 min | 46 min | 28 min | 19 min |
| BBU-NX33KI | | 185 min | 116 min | 81 min | 50 min | 24 min |
| BBU-NX33KJ | | | 189 min | 130 min | 80 min | 46 min |

| Load | 40000W | 48000W | 64000W | 80000W | 96000W | 128000W |
|---------------|---------|---------|---------|----------|----------|----------|
| | 50000VA | 60000VA | 80000VA | 100000VA | 120000VA | 160000VA |
| Model | | | | | | |
| BBU-NX33KG | 6 min | | | | | |
| BBU-NX33KH | 12 min | 10 min | | | | |
| BBU-NX33KI | 21 min | 18 min | 12 min | 6 min | | |
| BBU-NX33KJ | 33 min | 30 min | 18 min | 10 min | 6 min | |
| BBU-NX33KI X2 | 64 min | 50 min | 24 min | 21 min | 18 min | |
| BBU-NX33KJ X2 | 92 min | 80 min | 60 min | 33 min | 30 min | 17 min |

MODULE INTERIOR LAYOUT



Plugin Rectifier Module



Plugin Inverter Module

BOREALIS SERIES

The Borealis Series Emergency Lighting Inverters are dual-conversion, on-line, intelligent systems that offer full coverage for your emergency lighting back up power needs.

Our use of dual conversion technology allows you to get the best emergency lighting inverter option without compromising on cost, maintenance, or life of your system and its components. Dual conversion allows the UPS to filter utility power before it goes to your systems. It does this by converting the ac power into dc power which is used to charge the batteries and supply power to the inverter. Then the inverter converts the dc power back into a high quality, regulated and isolated ac power source. This power filtration method eliminates power ripple, static, line noise, frequency variation, switching transients, and harmonic distortion, ensuring that sensitive equipment does not become damaged as a result of poor quality utility power.



FEATURES & BENEFITS



CONVENIENT FRONT PANEL DESIGN

The LCD displays real time status, data, and historical events. It is designed to be user-friendly and easy to read. The parameters, real time clock, inverter, and buzzer can also be set through this LCD.

Any faults or issues that come up are displayed clearly right up front where you can see them, no digging through menus, and the option for audible alerts makes it even more convenient to check the ELI status.

OVER-TEMP & OVER-VOLTAGE PROTECTION

Always On rugged, high quality, custom-engineered design protects your UPS against any issues that might be caused by misuse. Components and batteries are placed on trays designed for maximum airflow. Fans are strategically placed throughout the system and run on a long cycling, variable speed cycle; as an added bonus, this also extends the life of the fan motors.

FULL GALVANIC ISOLATION

Proven solution to problems created by induced voltages affecting critical loads. This protection increases the lifespan of the equipment by reducing component wear caused by noise.

AUTOMATIC BATTERY TEST & BOOST CHARGING

You will love our low maintenance system. The Borealis Series performs its own monthly automatic battery boost charge and battery test. This ensures the prevention of overcharge and deep-discharge, extending battery life, and gives early notification of bad batteries to avoid unexpected battery backup failure.

HIGH FREQUENCY DESIGN

The Borealis Series incorporates three single phase full bridge inverters with a 120 degrees phase displacement between each. This unique design makes the Borealis Series stand out in offering absolute top level performance when an unbalanced load is connected.

EASY TO REPAIR MODULAR DESIGN

Our systems are reliable and durable with annual maintenance. Components are installed on slide-out trays for ease of access in the event that repairs are needed. All Borealis Series systems come with an internal maintenance bypass switch, which allows for reduced hours spent on troubleshooting and repairing your unit, and in turn saves you money.

DESIGNED TO YOUR SPECIFICATIONS

The Borealis Series offers tailor-made power protection for your unique requirements. With several product options available, our team will work with you to create the best system for your application.

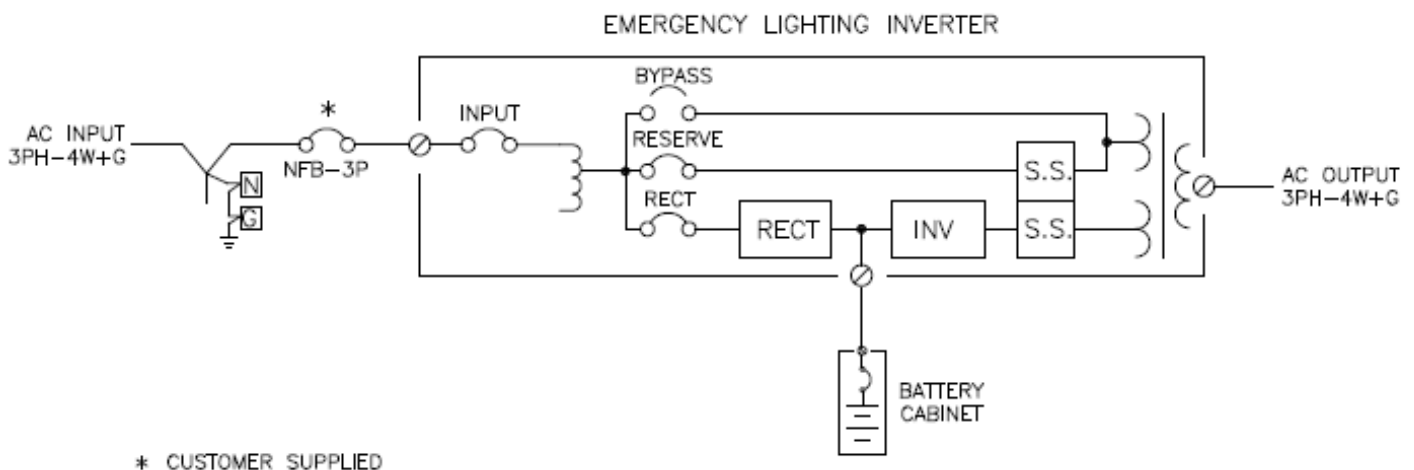


AVAILABLE OPTIONS

- **Various run times** of 30, 60, 90 or 120 minutes
- **Output circuit breakers**
- **Power distribution panels**
- **Remote emergency power off switch**
- **Normally OFF O/P**
- **Remote LCD display / control panel** for full monitoring and control
- **Top cable entry** module attached to the rear of UPS cabinet for convenience
- **External maintenance bypass** allows the unit to be completely shut down or removed for maintenance safely with no downtime



SINGLE LINE DRAWING



BOREALIS SERIES SPECIFICATIONS

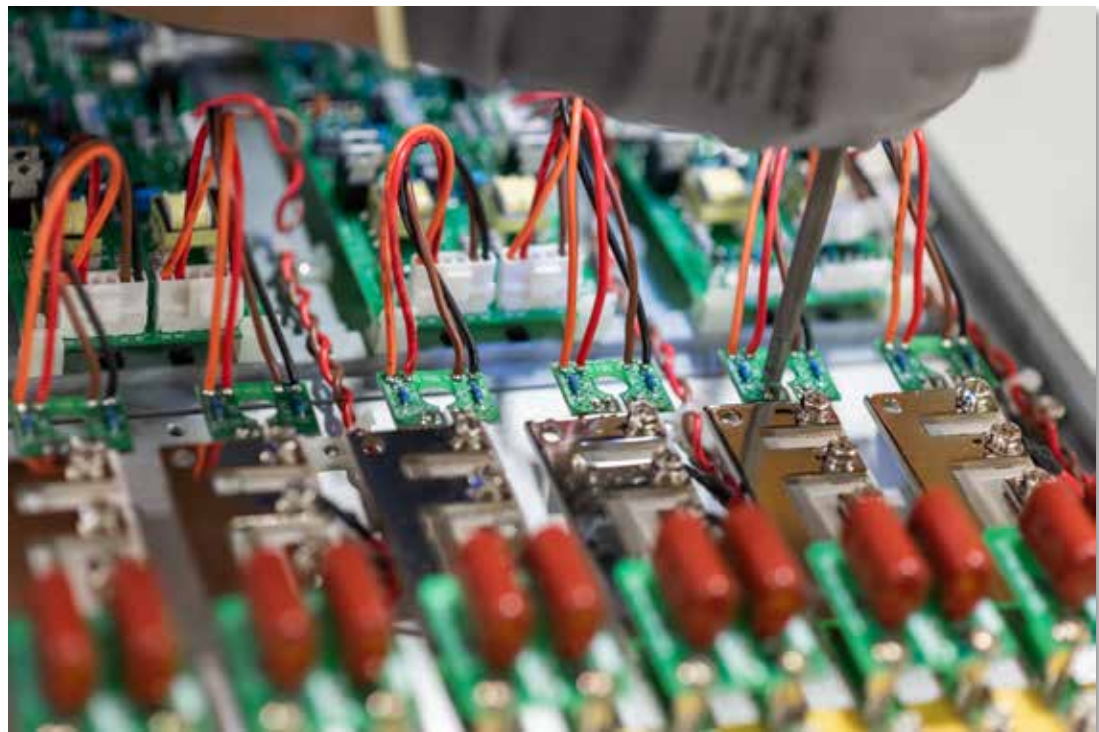
Specifications are subject to change without notice to reflect upgrades and improvement in technology.

| 8KW to 48KW | | | | | | | |
|--|--|--------------------------------------|------|------|------|------|------|
| Rectifier | 8KW | 12KW | 16KW | 24KW | 32KW | 40KW | 48KW |
| Input Voltage | 120/208V 277/480V 347/600V 3 Phase, 4 wire + ground | | | | | | |
| Input Range | ±15% | | | | | | |
| Input Frequency | 45-65Hz | | | | | | |
| Input Power Factor | 0.8 | | | | | | |
| Power walk-in | 0%-100%: 20 seconds | | | | | | |
| Efficiency | 98% | | | | | | |
| Battery | 8KW | 12KW | 16KW | 24KW | 32KW | 40KW | 48KW |
| Battery Type | Maintenance free sealed lead acid | | | | | | |
| Number of cells | 174 | | | | | | |
| Voltage Range | 295-410Vdc | | | | | | |
| Maximum charge current (ADC) | 5 | 7.5 | 10 | 15 | 20 | 25 | 30 |
| Inverter | 8KW | 12KW | 16KW | 24KW | 32KW | 40KW | 48KW |
| DC Input Range | 295-415Vdc | | | | | | |
| Wave form | True sine wave | | | | | | |
| Output voltage (adjustable) | 120/208V 277/480V 347/600V, 3 Phase, 4 wire + ground, or 1 phase | | | | | | |
| Crest factor | 3:1 | | | | | | |
| Output power factor | 0.8 | | | | | | |
| Voltage regulation 100% unbalance load | ±1% | | | | | | |
| Frequency lock range | 50/60Hz, ±7% | | | | | | |
| Output frequency (free running) | 50/60Hz, ±0.1Hz | | | | | | |
| Output voltage tolerance | Static | ±1% | | | | | |
| | Load step 0%-100%-0% | Recovering to within ±1% in 4 cycles | | | | | |
| THD (linear load) | <2% | | | | | | |
| Overload | <110% | Continuous | | | | | |
| | 110-125% | 15 minutes | | | | | |
| | 125-150% | 5 minutes | | | | | |
| | 150-170% | 30 seconds | | | | | |
| | >170% | 10 seconds | | | | | |
| Efficiency (100% load) | 92% | | | | | | |
| Maximum output wattage (kW) | 8 | 12 | 16 | 24 | 32 | 40 | 48 |
| Static Switch | 8KW | 12KW | 16KW | 24KW | 32KW | 40KW | 48KW |
| Voltage Range | ±20% of input voltage (line to neutral) | | | | | | |
| Frequency Range | 45-55Hz/55-65Hz | | | | | | |
| Efficiency Voltage regulation | Mains → Inverter | 0ms | | | | | |
| | Inverter → Mains | 0ms | | | | | |
| Isolation with output | Yes | | | | | | |

BOREALIS SERIES SPECIFICATIONS CONTINUED

Specifications are subject to change without notice to reflect upgrades and improvement in technology.

| Overall Characteristics | | 8KW | 12KW | 16KW | 24KW | 32KW | 40KW | 48KW |
|-------------------------------|--------------------|---|------|------|------|------|------|------|
| Overall Efficiency | | 90% | | | | | | |
| Maximum Heat Dissipation (kW) | | 0.89 | 1.32 | 1.76 | 2.64 | 3.52 | 4.40 | 5.28 |
| Operating Environment | Temperature | 0-40°C (32-104°F) | | | | | | |
| | Humidity | 0-90% (non-condensing) | | | | | | |
| | Altitude | <1500 above sea level | | | | | | |
| Protections | Short Circuit | Yes | | | | | | |
| | Lightning | MOV | | | | | | |
| | EMC Filter | Input & Output | | | | | | |
| | Galvanic Isolation | Between input & output | | | | | | |
| Indications and alarms | | LED, LCD, Buzzer | | | | | | |
| Dry contact | | Yes | | | | | | |
| Battery start | | Yes | | | | | | |
| Data display by LCD | | Yes | | | | | | |
| Audible noise | | <65dBA (at 1m) | | | | | | |
| Standards | | UL 924, UL 1778, NFPA 111, CSA 107.3, CCMC, BMEC, CSA 22.2 60950, CSA 141 available | | | | | | |
| Physical Data | W x D x H (mm) | 550 x 812 x 1600 | | | | | | |
| | Weight (kg) | 380 | 415 | 450 | 580 | 650 | 710 | 850 |



NX, N, TN SERIES

External Bypass Systems

We offer various systems which include isolation transformers for different voltage configurations, distribution panels, electro-mechanical interlock protection to ensure proper operation, and rotary switch operation.



FEATURES & BENEFITS



MODULAR DESIGN

A separate cabinet allows for complete removal of the UPS system from the load. Systems are supplied in a matching cabinet or wall-mounted cabinet. These systems are recommended for maintenance purposes to prevent accidental removal of power from the loads and to allow for complete power removal from the UPS system for safe maintenance.

AUTOMATIC TRANSFER SWITCH

Always On also offers an external automatic transfer switch (ATS) that will automatically switch to bypass in the event of loss of power from the UPS system for any reason.

MARINE ABS APPROVED SYSTEMS



Our systems provide complete power conditioning to increase reliability for marine equipment and environments. Always On UPS has a full complement line of ABS approved systems ranging from 700VA to 250kVA, with options for bypass systems and extended runtime modules.

We have installations on BC Ferries, Canadian Coast Guard vessels across the country, transport vessels, US Navy vessels, drilling platforms and more.

FEATURES & BENEFITS

ABS CERTIFIED SYSTEMS

The ABS flexible approval program allows our systems to meet certification for all required ratings globally.



ON-LINE DUAL CONVERSION DESIGN

All our marine-classed UPS systems are built with an on-line dual conversion design. According to marine standards, an off-line UPS unit, a line-interactive UPS unit, or an on-line UPS unit can be used as needed for your backup power needs onboard. However, only an on-line dual conversion UPS unit will solve all the problems commonly caused by systems used in marine applications.

DESIGNED TO YOUR SPECIFICATIONS

All our marine-classed systems use a high-grade conformal coating on all circuit boards and an enclosure designed specifically for shipboard applications. Systems are specifically designed with your requirements completely fulfilled and expectations exceeded. Our class-approved systems are versatile worldwide for any rating, fully compatible with ungrounded systems, and include everything required for all locations onboard ships (including bridge equipment).

AVAILABLE MODELS

ABS approval is available on the following UPS systems:

- **NX31 & NX33 Series:** Three Phase In/ Single or Three Phase Out, 5kVA-250kVA
- **TN11 Series:** Single Phase Input & Output, 6kVA-20kVA
- **N-Series:** Single Phase Input & Output, 700VA-3kVA

FIND COMPLETE SOLUTIONS TO ALL YOUR COMMON MARINE POWER PROBLEMS



AVOID THESE POWER PROBLEMS

- Harmonic Distortion
- Frequency Variations
- Brown Outs
- Switching Transients
- Ungrounded Imbalance
- Power Surges
- Line Noise
- High Voltage Spikes
- Power Sags

LIMOUSIN II

The Limousin II is a transformer-based UPS that provides lightning, surge, transient, and noise protection, as well as voltage regulation and blackout protection for home, office, and commercial applications!

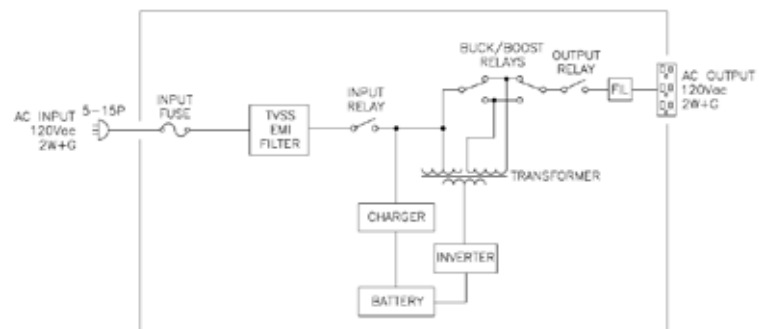
Available with Limousin II:

- Shutdown/control software package
- Communication cable
- Telephone/network protection



| Limousin II Specifications | | |
|----------------------------|-------------------------|--|
| General | Capacity | 600VA/360W |
| | UPC | 00111 |
| Input | Voltage | 120V nominal, $\pm 25\%$ |
| | Frequency | 50 or 60Hz $\pm 10\%$ |
| | Input Socket | (1) IEC 320 |
| Output | Voltage (on battery) | 120Vac nominal, simulated sine wave |
| | Frequency (on battery) | 50 or 60Hz, ± 0.5 Hz (auto sensing) |
| | Auto Voltage Regulation | $\pm 10\%$ of nominal |
| | Waveform (on battery) | Simulated sine wave |
| | Transfer Time | 4ms, including detection |
| | Receptacles | (3) NEMA 5-15R (120V) |
| Protection & Filtering | Spike Protection | 480 joules, 2ms |
| | Overload Protection | 110% for 60 seconds, 130% for 30 seconds |
| | Short Circuit | Fuse protection or immediate shutdown |
| Battery | Type | Sealed lead acid, maintenance free |
| | Recharge Time | 6 hours (to 90% of full capacity) |
| | Backup (full load) | 5-10 minutes |
| Interface | Communications | Serial Port |
| | LED Display | Normal/Backup/Overload |
| | Audible Alarms | On Battery, Low Battery, Overload |
| Environment | Temperature Range | 0°C to 40°C (32°F to 104°F) |
| | Humidity | 0-95% (non-condensing) |
| | Audible Noise | <40dBA (1 meter from surface) |
| Safety Approvals | Safety | cUL, UL1778 |
| | EMI / RF | FCC Part 15 Class B |
| Physical Data | Net Weight kg (lb) | 6.2 (13.6) |
| | Ship Weight kg (lb) | 6.7 (14.9) |
| | WxDxH mm | 97x320x135 |

SINGLE LINE DRAWING



NFC SERIES

Three Phase In/Out Frequency Converters & Voltage Regulators

FEATURES & BENEFITS

The NFC Series, based on the NX Series, are intelligent, dual conversion, on-line, three phase systems for centralized frequency conversion, power protection, and power distribution in commercial and industrial applications. They provide clean, regulated, and controlled power at the customer specified voltage and frequency for all specific and critical loads, including 50 or 60Hz input frequency 50, 60, or 400Hz user defined output frequency.

MULTI-MCU DESIGN

Increased reliability of all major sub-systems.

FULL GALVANIC ISOLATION

Proven solution to problems created by induced voltages affecting critical loads. This protection increases the lifespan of the equipment by reducing component-wear caused by noise.

FREQUENCY CONVERSION

Permits the user to configure a system with any input voltage and frequency with any output voltage and frequency, independent of the input configuration.

| NFC Specifications | | | | | | | | | | | | | | |
|----------------------------------|-------------------|-----------------------------------|---|----|----|----|----|----|----|----|----|-----|-----|-----|
| Topology | | | True On-Line, Dual Conversion | | | | | | | | | | | |
| Nominal output at PF=0.8 | | | kVA | 10 | 15 | 20 | 30 | 40 | 50 | 60 | 80 | 100 | 160 | 250 |
| Overall Efficiency | 100% load, 0.8 PF | % | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 | 90 |
| Operating temperature range | | UPS | 0°C to 40°C (32°F to 104°F) | | | | | | | | | | | |
| | | Battery | Optimal 20°C to 25°C (68°F to 77°F); higher temps reduce battery life expectancy. | | | | | | | | | | | |
| Relative humidity | | | 0% to 90%, non-condensing | | | | | | | | | | | |
| Enclosure | | Type | Indoor (NEMA 1 or 12 available); drip shield & additional configurations available. | | | | | | | | | | | |
| | | Safety | Internal dead front construction | | | | | | | | | | | |
| | | Cooling | Forced air—variable speed | | | | | | | | | | | |
| Installation | | Rigging | Suitable for handling by forklift or overhead crane; eye hooks available. | | | | | | | | | | | |
| | | Mounting | Casters and levelling feet; optional seismic rated mounting available. | | | | | | | | | | | |
| | | Installation & maintenance access | Front and right-hand side access required for normal maintenance | | | | | | | | | | | |
| | | Conduit access | Bottom entry standard; optional top entry | | | | | | | | | | | |
| Standards | | | UL 1778, IEC 62040, FCC CLASS A, EN50091-1,-2, CSA 107.3, Optional ABS | | | | | | | | | | | |
| Electrostatic discharge immunity | | | 6kVA | | | | | | | | | | | |

TTF/ILF-12015

Isolating Line Filter

PROTECTS FROM

- Reverse Polarity
- High Voltage Spikes
- Power Surges
- Switching Transients
- RFI/EMI Interference
- Common/Normal Mode Noise
- Direct/Indirect Lightning Effects
- Neutral Ground Voltage

APPLICATIONS

- Computers
- Printers / Copiers
- Point of Sale Terminals
- Medical Instruments
- PLCs
- Process Instruments
- CAD/CAM/CIM
- Robotics

The Always On TTF/ILF combines a low-pass series filter with toroidal isolation transformer. The TTF/ILF provides for total protection against all power aberrations and eliminates any troublesome constant voltages which may exist between neutral and ground in some electrical configurations. It is totally compatible with all operating loads including high frequency switching power supplies.

TTF/ILF-12015 Specifications

| | |
|--------------------------|---|
| Frequency | 50/60 Hz |
| Voltage | 120v |
| Amperage | 15A @120V |
| VA Rating | 1800VA max |
| Protection Modes | Normal Mode (L-N), Common Mode (L-G,N-G) |
| Technology | Dual Hybrid Series Filter/ Toroidal Isolation Transformer |
| Insertion Loss | Nominal 75dB, Mil-Std-220A @ 100kHz; Common Mode 120dB |
| Bandwidth | Normal Mode: 10-11kHz; Common Mode: DC to 100mHz |
| Response Time | Instantaneous |
| Total Peak Surge Current | 26000A |
| Joules | Up to 600 Joules |
| Leakage Current | Nominal <250mA |
| Operating Humidity | 0-97% (non-condensing) |
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Warranty | 5 years |
| Dimensions WxDxH mm (in) | 300x355x153 (12x14x6) |
| Weight kg (lb) | 20 (44) |
| Available Options | Wall Mount Standard |



ALW BATTERIES & BATTERY BANK UNITS

Our rigid standards during manufacturing, quality control, and testing ensure that only batteries meeting the tight specifications of the product are integrated into the rest of our system designs.

| Always On Batteries | | | | | |
|-------------------------|-------------|-------------|-------------|--------------|--------------|
| ALW Batteries | ALW36-12UPS | ALW56-12UPS | ALW85-12UPS | ALW110-12UPS | ALW160-12UPS |
| Capacity (25°C/77°F) | 36Ah | 56Ah | 85Ah | 110Ah | 160Ah |
| Voltage | 12V | | | | |
| Weight kg (lb) | 12.6 (27.7) | 17.5 (38.5) | 26.0 (57.2) | 32.0 (70.4) | 45.5 (100.1) |



CSA & UL LISTING CERTIFIED

Each battery, charger, and inverter of a fully assembled system is accurately calibrated and vigorously tested through each mode of operation, including battery discharge and recharge cycles to ensure the complete system is in compliance with the required safety standards.



DESIGNED BATTERY CABINETS

Our battery cabinets come in a variety of sizes to suit your backup time needs. For even longer run-times, multiple cabinets can be used to increase storage capacity. The cabinets are equipped with heavy duty casters, convenient battery cable with Anderson quick connects, and retractable battery trays to make battery testing and replacement easy.

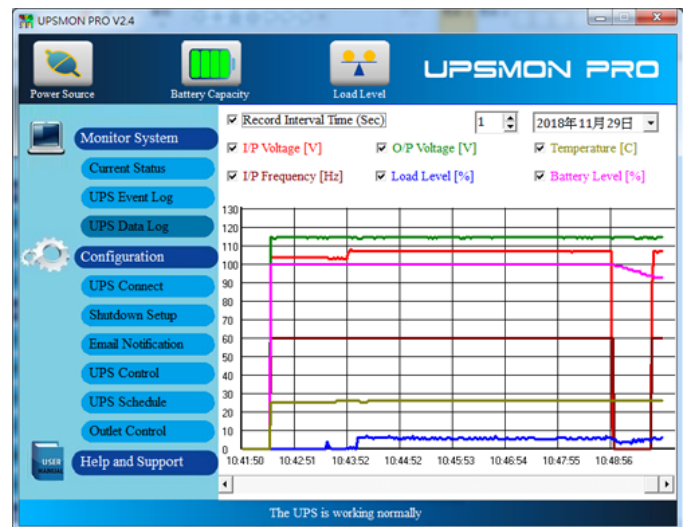
| Always On Battery Cabinets Dimensions | | |
|---------------------------------------|--------------------|--------------------|
| Style: | KA, KB, KC, KD, KE | KF, KG, KH, KI, KJ |
| WxDxH (mm) | 812x863x1945 | 1314x850x1945 |
| WxDxH (in) | 32x34x76.6 | 51.7x33.5x76.6 |

POWER MANAGEMENT / SHUTDOWN SOFTWARE

Always On proudly provides high quality power management and shutdown software to meet your remote management needs.

UPSMON PRO

Complete power management software bundled together in a user-friendly format to make monitoring your UPS systems easy and stress-free.



UPSMON PRO Specs

| | |
|--------------------------------|--|
| Operating System Compatibility | (32 & 64 bits) Windows XP, Vista, 7, 8, 10, Server 2000~2016 and Hyper-V, VMWare ESXI, Linux, Manager, and Android |
| Interface | USB, SNMP Card |
| Monitoring | Utility, Voltage, Frequency, Battery Status Temperature |
| Languages | English, Russian, Japanese, Traditional Chinese, Simplified Chinese |
| Auto Shutdown | Power Failure Occurs |
| Log | UPS events, Voltage, Battery, UPS Load, Temperature |
| Battery Test | Quick Test, Deep Test, Self-Test Scheduled, Self-Test to Specific Load |
| UPS Control | Outlets Power Control, Bypass Control, Switch UPS Power, High Efficiency Control |
| Schedule | Battery Test, Auto Shutdown and Startup |



NETAGENT SNMP

NetAgent SNMP integrates multi-network communication protocols to enable a comprehensive easy-to-understand and secure remote monitoring and management system for your three phase or single phase UPSs.

Among its many functions, the NetAgent SNMP features multi-monitoring functionality for the monitoring of multiple UPSs on one screen, auto-set alerting system, SNMP unattended shutdown application, broadcasting message functionality, and internet time-sync capability. It supports TRAP notification, SMTP, Email notification without a PC required, and Android support.



PREVENTATIVE MAINTENANCE PROGRAMS



We offer a number of custom annual and/or semi-annual preventative maintenance service programs to keep your systems in their absolute best shape.

Always On systems are designed for maximum reliability and peak performance. Even so, a regular maintenance program is necessary to identify and correct potential problems. Preventative maintenance helps prevent unplanned and inopportune downtime and outages of critical systems, more rapidly addresses problems that can occur, and extends battery lifespan.

MAJOR PREVENTATIVE MAINTENANCE PROGRAM INCLUDES

- Disassemble system to conduct visual inspection of internal assemblies, major components, and mechanical connections and modules to ensure they are tight and not generating heat
- Perform a complete operational test of the system, including battery discharge test. Measure and record charging voltages of each battery
- Re-torque all battery connections to their proper specifications
- Check site environment conditions to ensure suitability for UPS
- Perform any necessary factory upgrades
- Clean and vacuum interior and exterior of enclosures
- Record front panel meter reading and status
- Record history logs for further review of UPS performance



EXTENDED WARRANTY PACKAGES



Extended warranty programs are offered at time of purchase or at any time while the unit is under factory warranty.

Factory warranty for TN, NX and Borealis units include one year onsite 100% parts and labour.

We proudly offer several flexible service and warranty programs tailored to fit the specific needs of your site. The services described below are available in program options A (*most basic*) to N (*most enhanced*). Can't find one that fits your needs? Our service team will work with you to create a custom program if the ones below aren't quite the right fit.

Have questions or need more information, please contact our service team at Service@AlwaysOn.com or toll-free at 1-877-259-2976 ext. 234

| Extended Warranty Summary Table — Offered for TN11, NX, and Borealis Series UPS | | | | | | | |
|---|----------------|------|--|--------------|-------------------|-------------|-----------------------|
| Program | Coverage Hours | | Coverage Area <small>(from nearest service depot)</small> | | Warranty Coverage | | Extras |
| | Business Hours | 24/7 | 50km Radius | 100km Radius | 100% Parts* | 100% Labour | Semi-Annual Minor PMs |
| A | ✓ | | ✓ | | ✓ | | |
| L | | ✓ | ✓ | | ✓ | | |
| W | ✓ | | ✓ | | ✓ | ✓ | ✓ |
| A2 | | ✓ | ✓ | | ✓ | ✓ | ✓ |
| Y | ✓ | | | ✓ | ✓ | | |
| S | | ✓ | | ✓ | ✓ | | |
| O | ✓ | | | ✓ | ✓ | ✓ | ✓ |
| N | | ✓ | | ✓ | ✓ | ✓ | ✓ |

* All service programs include 100% parts coverage excluding batteries.

* Where external bypass cabinets are installed as part of the system, the cost of all related service programs will increase. Inquire for details.

* Same location only (per initial installation). For domestic Canada product only. Same day completions. Newfoundland and Labrador, Prince Edward Island, New Brunswick, Nova Scotia, or Remote Northern Canada travel cost is extra.



CONTACT Us

We'd love to hear from you! Please connect with our team through phone or email.

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