

EXT Series

Single Phase, 2.1 to 17 kW

HID, Incandescent, Fluorescent, LED

120, 208, 240, 277, or 480 Volts

Heavy-duty NEMA 3R enclosure in steel, aluminum or stainless steel

U.L. Listed to UL924 Lighting and UL1778 UPS Standard, by CSA

Built like a tank, the EXT Series is specifically designed for outdoor locations and hostile environments. This unit has been proven for several years in the field to operate efficiently in extreme temperatures, harsh weather conditions, and withstand physical abuse and vandalism. Unique in the market, the EXT Series is the only outdoor central lighting inverter listed to UL924 and UL1778 UPS standards. The EXT Series is the solution to fulfill power requirements for emergency egress lighting in a wide variety of very challenging applications.

KEY FEATURES of the EXT Series:

- Electronics maintain normal output when tested to 136°F (58°C) and minus -29°F (-34°C) temperatures.
- Designed for remote locations where input voltage can swing from +20% to -35%.
- Latest technology microprocessor controlled electronics with PWM (Pulse Width Modulated) design for true Sine Wave output.
- Double Conversion, “no-break” online system powers all lamp types, including LED.
- Continuous self-diagnostic and self-testing system. Optional remote monitoring capabilities.
- Heavy-duty NEMA 3R enclosure includes weatherproof gasketing, convection and fan cooling. Optional battery heater.
- Rugged steel (painted) enclosure is standard. Optional aluminum or stainless steel for exceptional corrosion resistance in very harsh environments.
- Tamperproof triple-locking design includes internal steel bars, keylock, and padlocking door handle.
- Efficiency: 94% online / 98% standby



Applications

For outdoor and remote locations, hostile environments, high security, areas subject to vandalism, and buildings where inside space is not available.

Typical installations:

- Parking Garages
- Bridges, Toll Booths, Tunnels
- Sports Stadiums
- Railroads and Subways
- Prisons
- Roof Tops
- Airports, Airplane Hangars
- Military Bases
- Embassies
- Ports and Refineries
- Extremely hot or cold areas
- Homeland Security



Cabinet size for 2.1kW through 5kW models shown above. 5.25kW through 17kW models use 51"W x 30.5"D x 70"H cabinet.

Shown Stainless Steel Heavy-duty NEMA 3R

**Product offered
1.0 P.F. unity**

EXT Series

INPUT SPECIFICATIONS

Nominal Input Voltage 120, or 208, or 240, or 277, or 480VAC single phase
 Input Voltage Range +20% to -35%
 Input Frequency 60 Hz ±5%
 Power Factor 1.0 unity
 Overcurrent Protection Circuit breaker
 Power Connection Hard wired (terminal block)
 Input Configuration 2 wire (hot, neutral) plus ground

OUTPUT SPECIFICATION

Output Rating 2.1 to 17 kW (Normal Mode/Emergency Mode)
 Voltage 120/240, 277, 480 VAC, Single Phase
 Voltage Regulation ±3% No Load to Full Load;
 ±3% High Line to Low Line
 Frequency 60 Hz ±0.25 Hz (When on Inverter)
 Waveshape Sine Wave
 Harmonic Distortion <7% THD; <5% Single Harmonic
 Crest Factor Up to 3 to 1
 Power Factor 1.0 unity
 Overload 125% for Ten (10) Minutes; 150% Surge
 Protection Fault Current Limited by Ferroresonant Design
 Noise Rejection -120 dB Common Mode; -60 dB Normal Mode
 Operating Temperature Tested for -29°F.(-34°C) to 136°F.(58°C)
 (Electronics Only)

PHYSICAL SPECIFICATIONS

Accessibility All Servicing is through the Front.
 Cable Entry Bottom
 Mounting Four (4) Mounting Holes Provided to Anchor Enclosure to Pedestal

BATTERY SPECIFICATIONS

Battery Run Time 90 min
 Battery Type Sealed, Maintenance-Free, Lead calcium
 Nominal DC Link 48 or 120VDC link
 Overcurrent Protection Circuit Breaker

OPTIONS

- Secondary Auxiliary Circuit Breakers (up to 12 one-pole OCB's): Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- Battery Heating Pad
- Extended Warranty and Service Plans
- Lifting Eyes NEMA 3R and 4X
- Monitoring via RS232 and RS485
- Duplex 120V Receptacle for Service
- Make before break Maintenance Bypass Switch and Electronic Maintenance Bypass Switch
- TVSS for 208/240 and 277V
- Spare Part Kits Available
- Runtime Up to 13 Hours
- High Isolation Transformer with Harmonic Reduction (up to K-50)
- Heater Strip with Thermostat Control
- (5) Form "C" Contacts Alarms
- Stainless Steel, Zinc Anodized Aluminum Cabinets
- **Global Monitoring System (GMS)**
 - Provide SNMP MIB to monitor & log UPS status
 - Auto-sense 10M/100M Fast Ethernet
 - Manage & configure via Telnet, Web Browser or NMS
 - Support TCP/IP, UDP, SNMP, Telnet, SNTP, PPP, HTTP, SMTP Protocol
 - Sending both of SNMP TRAP and Email for events notification.
 - Auto email daily Battery Backup history report (configurable)
 - Basic NetAgent: LAN or WIFI
 - Advance NetAgent: LAN, WIFI, Dial-up Modem, or GPRS Modem



Consult Factory for more features and choices of remote communication.

Total Watts Max.	*Model Numbers	Input	Output	BTUs/HR	WEIGHT w/o Batt	(# of Cabinets) Dimensions W x H x D
2,100	EX3.0A01EXF1-96	120, 208, 240, 277, 480	120, 208, 240, 277, 480	1137	910 lbs	(1) 39" x 74.5" x 20"
3,000	EX3.0R01EXF2-96			1433	910 lbs	
3,500	EX5.0A01EXF1-96			1314	985 lbs	
5,000	EX5.0R01EXF2-96	208, 240, 277, 480		2047	985 lbs	(1) 51" x 70" x 30.5"
5,250	EX7.5R01EXF1-96			2150	1070 lbs	
7,000	EX010R01EXF1-96			2866	1085 lbs	
7,500	EX7.5R01EXF2-96			3070	1070 lbs	
8,750	EX12.5R01EXF1-96			3070	1130 lbs	
10,000	EX010R01EXF2-96			4094	1085 lbs	
10,500	EX015R01EXF1-96			4299	1285 lbs	
12,500	EX12.5R01EXF2-96			5118	1130 lbs	
14,000	EX020R01EXF1-96			5732	1285 lbs	
15,000	EX015R01EXF2-96	6141		1285 lbs		
17,000	EX017R01EXF2-96	6141		1285 lbs		

* Input Voltage: A=120 (3 & 5 KVA only), B=208, D=240, R=277 VAC
 Output Voltage: When the output is different from the input, put a "T" before the 96.

Normally On and Normally Off Circuits are available at an additional cost.
 Please contact factory for other sizes and voltages

Specifications are subject to change without prior notification.

