

Outdoor and Harsh Locations Central Lighting Inverter

Single Phase
Online or Fast Transfer (under 2ms)
LED, Incandescent, Fluorescent, HID
120, 208, 240, 277, 480 Volts
Listed to UL924 lighting
and UL1778 UPS Standards, by CSA



Hostile Environmental Unit (HEU) 2.1 to 17KW

Key Features:

- **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%**
- **Automatic monthly and annual self testing**
- **Latest technology microprocessor controlled electronics with PWM (Pulse Width Modulated) design for true Sign Wave output**
- **Double Conversion, “no break” online system powers all lamp types, including LED**
- **Continuous self-diagnostic and self-testing system. Automatically tests every 30 days and 12 months.**
- **Optional remote monitoring capabilities.**
- **Heavy-duty NEMA 3R enclosure includes weatherproof gasketing, convection cooling.**
- **Optional battery heater**

Built like a tank, the HEU 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 HEU is the only outdoor central lighting inverter listed to UL924 and UL1778 UPS standards. The HEU is the solution to fulfill power requirements for emergency egress lighting in a wide variety of very challenging applications.

- **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**

Hostile Enviromental Unit Specifications

INPUT SPECIFICATIONS

Nominal Input Voltage	120, 208, 240, 277, or 480 VAC 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 SPECIFICATIONS

Output Rating	2.1, 3, 3.5, 5, 7.5, 10, 12.5, 15, and 17kW (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
Waveshape	Sine Wave
Harmonic Distortion	< 5% THD; < 3% Single Harmonic
Crest Factor	Up to 3 to 1
Power Factor	1.0 unity
Overload Protection	125% for Ten (10) Minutes; 150% Surge Fault Current Limited by Ferroresonant Design
Noise Rejection	-120 dB Common Mode; -60 dB Normal Mode
Operating Temp. (Electronics Only)	Tested for -40°F.(-40°C) to 136°F.(58°C)

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 120 VDC link
Overcurrent Protection	Circuit Breaker



Options

- Secondary Auxiliary Circuit Breakers (up to 16 or 24 one-pole OCB's) Normally On, Normally Off, Normally Off w/ Delay, Trip Alarm
- Extended Warranty and Service Plans
- Make before break internal Maintenance Bypass switch and Electronic Maintenance Bypass switch
- TVSS for 120, 208, 240 and 277V
- Runtime up to 13 hours
- Rotatable Lifting Brackets
- Fast Transfer
- Battery Thermal Runaway with Dry Contact
- Wireless battery monitoring system: Ability to monitor individual batteries including battery impedance
- High isolation transformer with harmonic reduction (up to K-50)
- Heater strip with thermostat control
- (5) Form "C" Contacts alarms
- Global Monitoring System (GMS) LOCAL
 - Local PC via RS232 and RS485
 - Event logging up to 500
 - SNMP
- REMOTE Web/SNMP:
 - System status, measurement, alarm notification, event logging and password protected configuration.

Consult Factory for more features and choices of remote communication



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KW	INPUT/OUTPUT VOLTAGES	MODEL NUMBERS	DC VOLTS	CABINET SIZE (W x H x D)	WGTS (LBS)
2.1	120/120 208/208 240/240 277/277	HU3.0A0100N1-VA HU3.0B1300N1-VA HU3.0D0400N1-VA HU3.0R2500N1-VA *HU3.0X5800T1-VA	96	39" x 73.5" x 20"	910
	120, 208, 240, 277, or 480				
3.0	120/120 208/208 240/240 277/277	HU3.0A0100N1 HU3.0B1300N1 HU3.0D0400N1 HU3.0R2500N1 *HU3.0X5800T1	96	39" x 73.5" x 20"	910
	120, 208, 240, 277, or 480				
3.5	120/120 208/208 240/240 277/277	HU5.0A0100N1-VA HU5.0B1300N1-VA HU5.0D0400N1-VA HU5.0R2500N1-VA *HU5.0X5800T1-VA	120	39" x 73.5" x 20"	985
	120, 208, 240, 277, or 480				
5.0	120/120 208/208 240/240 277/277	HU5.0A0100N1 HU5.0B1300N1 HU5.0D0400N1 HU5.0R2500N1 *HU5.0X5800T1	120	39" x 73.5" x 20"	985
	120, 208, 240, 277, or 480				
7.5	208/208 240/240 277/277	HU7.5B1300N1 HU7.5D0400N1 HU7.5R2500N1 *HU7.5X5800T1	120	51" x 77.5" x 33.5"	1070
	208, 240, 277, or 480				
10	208/208 240/240 277/277	HU010B1300N1 HU010D0400N1 HU010R2500N1 *HU010X5800T1	192	51" x 77.5" x 33.5"	1085
	208, 240, 277, or 480				
12.5	208/208 240/240 277/277	HU012B1300N1 HU012D0400N1 HU012R2500N1 *HU012X5800T1	192	51" x 77.5" x 33.5"	1130
	208, 240, 277, or 480				
15.0	208/208 240/240 277/277	HU015B1300N1 HU015D0400N1 HU015R2500N1 *HU015X5800T1	240	51" x 77.5" x 33.5"	1285
	208, 240, 277, or 480				
17.0	208/208 240/240 277/277	HU017B1300N1 HU017D0400N1 HU017R2500N1 *HU017X5800T1	240	51" x 77.5" x 33.5"	1285
	208, 240, 277, or 480				

* Input Voltage X: A=120, B=208, D=240, R=277, H=480 VAC

Consult factory for other power ratings.

All units are 90 minutes Battery Back-up time @ full Load. Consult factory for other back-up times.