



Harsh Environment UPS

Single Phase, 3kW to 17 kW



NEMA 3R INVERTER SOLUTION

Online Power's Harsh Environment Unit provides all your needs for Indoor/Outdoor Applications when an environmentally controlled room compatible for electronics is not an option. The HEU comes with standard Conformal Coated Electronics, Filtered Ventilation and a NEMA 3R Steel Enclosure to handle rugged conditions and industrial needs.



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For the latest product news, technical specs, drawings, guides and manuals.

STANDARD FEATURES

- ✓ 90 Minute Backup Design at Full Load
- ✓ Listed to UL924 and UL1778 Standards
- ✓ Compatible with Self-Ballast Fluorescent, Incandescent, Halogen, Quartz Re-strike, HID, HPS and LED
- ✓ True Online, Double Conversion, Technology with **Zero Transfer Time**
- ✓ Pure Sinusoidal Waveform
- ✓ High Frequency Pulse Width Modulation (PWM) for Conditioned Power to the Load
- ✓ TVSS Input Transient Voltage Surge Suppressor (Class C)
- ✓ Tamperproof Triple-Lock Design includes Internal Steel Bars, Keylock and Padlocking Door Handle
- ✓ Standard Steel Enclosure with Filtered Ventilation
- ✓ Conformal Coated Electronics
- ✓ Input Power Factor Correction and Full Voltage Regulation
- ✓ Multiple Output Voltages
- ✓ Self-Testing and Battery Exerciser
- ✓ DC Breakers for Ease of Maintenance

OPTIONAL FEATURES

- Global Monitoring (GMS):
 - GMS 1: Local event Logger with Memory (PC Connections via RS232 and RS485) 500 Events
 - GMS 2: Remote Monitoring with Local Network Connection (WiFi, Ethernet or Modem)
 - GMS 3: Remote Monitoring with Cellular Network Connection
- Remote Status Panel
- Battery Monitoring (String or Per Battery)
- Dry Contacts Normally Open
- Form C Dry Contact with N/O or N/C Field Selectable for Desired Signal
- Main Input & Output Circuit Breaker (UL489)
- Normally ON and/or Normally OFF Auxiliary Breakers (12 or 24 MAX) (DEPENDING ON CABINET SIZE)
- Custom Rated KAIC Breakers
- 65 KAIC Total System Short Circuit Current Rating
- Thermal Runaway Control
- Internal or External Maintenance Bypass Switch
- High Temperature Batteries
- Long Life Battery 20 Year Warranty
- Time Delayed Transfer to Battery
- Time Delayed Transfer from Battery
- Heater Strip with Thermostat Control
- Stainless Steel or Aluminum Cabinets
- Maintenance:
 - Extended Warranty
 - Preventative Maintenance Plans



SPECIFICATIONS

Harsh Environment UPS

Single Phase
3kW to 17 kW

*All units are 90 minutes battery backup time @ full load.
Consult factory for backup times (up to 120 minutes)

SAFETY STANDARDS

UL924, UL1778, NFPA101, NFPA70, NEMA, and ANSI
Listed to UL924 and UL1778 Standards

INPUT

AC Voltage: -15% / +10%
Frequency: Slew rate of 0.4Hz/sec

OUTPUT

AC Voltage Regulation: Less than 5%,
2 wires plus-ground for single voltage outputs,
3 wires plus-ground for dual voltage outputs

Wave Form: Sinusoidal

Harmonic Distortion: < 5% THD; < 3% Single Harmonic

PROTECTION

Overload: 115% for 5 - 10 min, 125% for 30 sec

BATTERY

Battery: Sealed, maintenance free VRLA lead acid battery
Recharge Time: Conforms to UL standards

NOISE ISOLATION

Common Mode: -120 dB
Transverse Mode: -60 dB

ENVIRONMENT

Operating Temp: -20° to +50°C (-4° - 122°F)
Electronic Storage Temp: -20° to 70°C. (-4° - 158°F)
Humidity: 0% to 95% (non-condensation)
Altitude: Up to 10,000 ft

Cabinet Dimensions

(Inches) Width x Height x Depth

Cabinet I

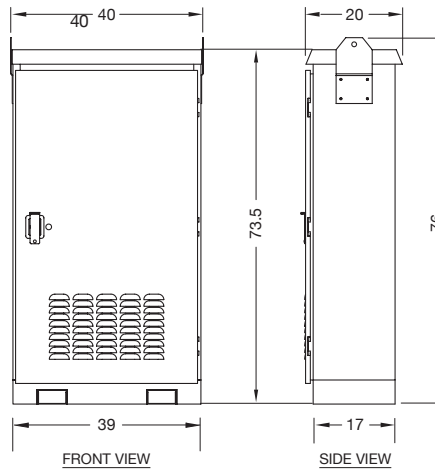
40"W x 76"H x 20"D

Cabinet II

52"W x 80"H x 33.5"D

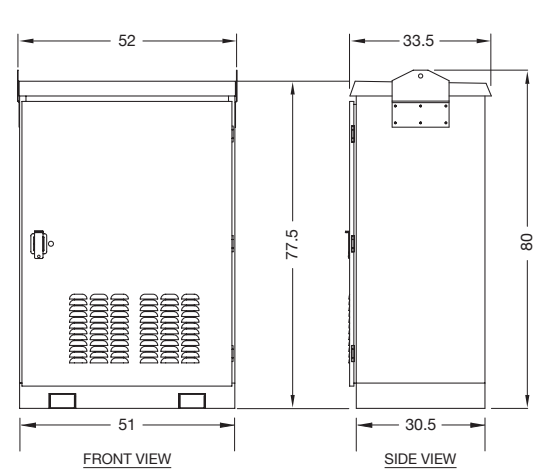
Cabinet I

3kW to 5kW



Cabinet II

6kW to 17kW



Model Numbers

Model number will be reflected on name plate, not designed for ordering or specifications.

Unit Name	Capacity (kW)	Input (Volts)	Output (Volts)
HE	3.0 3 kW	A 120V	0100N1 120V
HE UPS	5.0 5 kW	B 208V	1300N1 208V
	6.0 6 kW	D 240V	0400N1 240V
	8.0 8 kW	R 277V	2500N1 277V
	010 10 kW	H 480V	*5800T1 120V/240V
	012 12.5 kW		120V/277V
	015 15 kW		277V/480V
	017 17 kW		120V/240V/277V

*5800T1 part number is reserved for dual voltage and multi voltage outputs.
We recommend 120V/240V for any 120V output needs. Provides the ability to feed two hots to a panel.

BTU / Weight

Capacity (kW)	*Weight (LBs)	
	90min	120min
3.0	1066	1020
5.0	1284	1524
6.0	1284	1596
8.0	1464	1833
10	2870	2913
12.5	3777	3657
15	4512	5300
17	4512	5800

Approximately 1000 BTU's per hour for every 3 kilowatts. The approximation is worst case BTU output, measured during recharge following a discharge

Warranty

Standard warranty is eighteen (18) months from ship date or twelve (12) months from start up, whichever occurs first. Optional second year warranty with factory performed preventative maintenance available.



ORDERING GUIDE

PROJECT NAME : _____

 REP / DISTRIBUTOR : _____

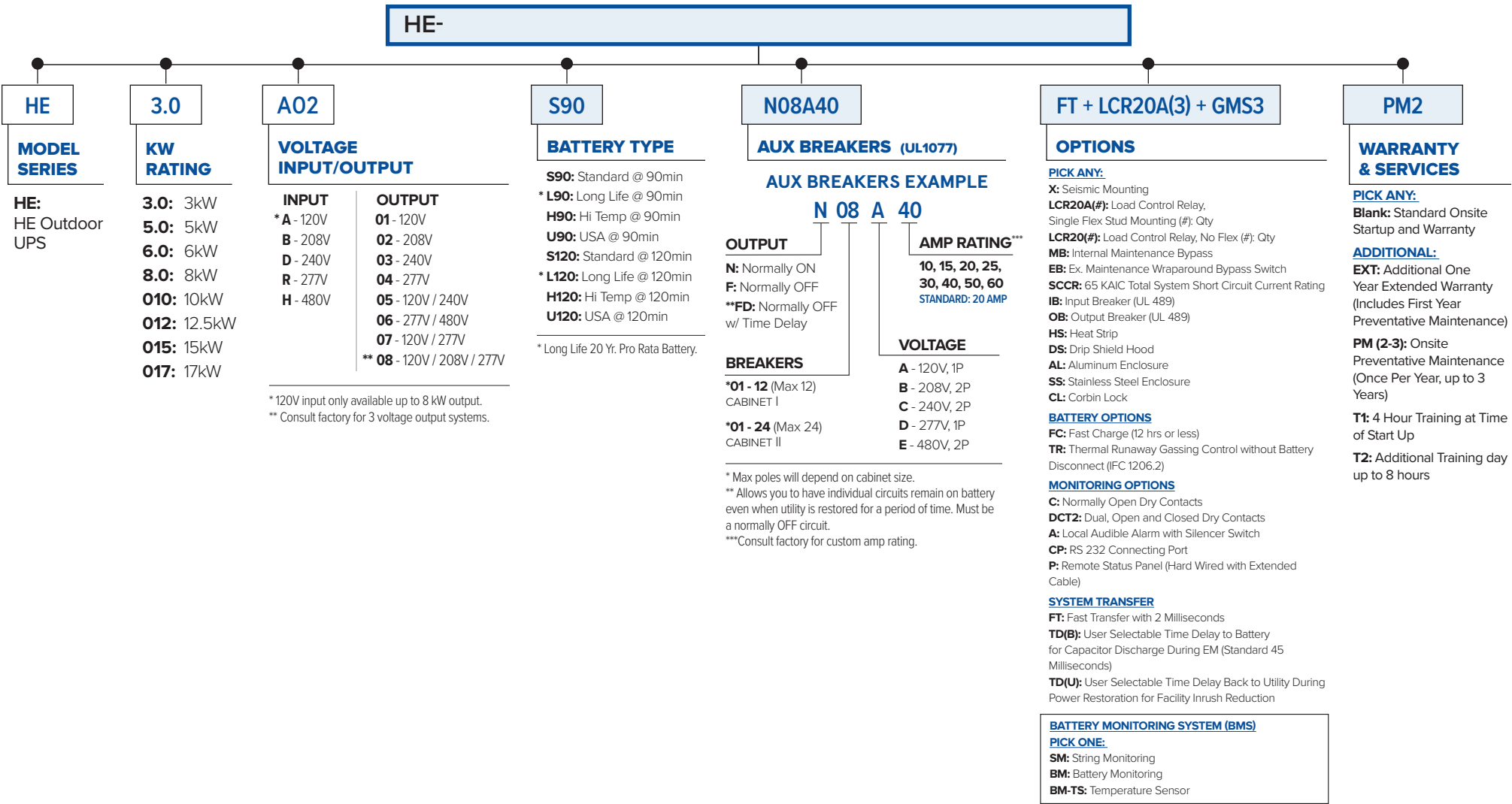
ORDER NUMBER **DOES NOT** REFLECT MODEL NUMBER. PLEASE CONSULT FACTORY.

ELECTRICAL DESIGNER / ENGINEER : _____

 DATE : _____

HE UPS Series

Example: HE-3.0-A02-S90-N08A40-FT-LCR20A(3)-GMS3-PM2



* 120V input only available up to 8 kW output.
 ** Consult factory for 3 voltage output systems.

* Max poles will depend on cabinet size.
 ** Allows you to have individual circuits remain on battery even when utility is restored for a period of time. Must be a normally OFF circuit.
 ***Consult factory for custom amp rating.



BATTERY MONITORING SYSTEM (BMS)
PICK ONE:
SM: String Monitoring
BM: Battery Monitoring
BM-TS: Temperature Sensor

GLOBAL MONITORING SYSTEM (GMS)
PICK ONE:
GMS 1: Local Accessible Event Logger with Unit Audible Alarm
GMS 2: Testing Logs with Remote Accessibility Through Local Network
GMS 3: Testing Logs with Remote Accessibility through Local Network and GPRS for Cellular Text Alerts