

HARSH ENVIRONMENT BATTERY BACKUP SYSTEM FOR INDOOR AND OUTDOOR APPLICATIONS

STADIUM, GYMNASIUM, AMPHITHEATER, CONVENTION CENTER, PARKING STRUCTURE, EMERGENCY AND SECURITY LIGHTS, TELECOMMUNICATION MILITARY, INLAND NON-CONTROL ENVIRONMENT, OCEAN FRONT BATTERY BACKUP SYSTEM, DUSTY AND UNCONTROLLED ENVIRONMENTS



3R Indoor and Outdoor Standard painted Steel cabinet, Stainless Steel and Zinc Anodized Aluminum cabinet option



HE MODEL (3-15 kW)

Emergency Lighting Approved

UL 924 with 90 minutes of sealed lead calcium batteries to power emergency lighting circuits.

State of Art Technology

High Frequency PWM double conversion use Digital Signal Processing for control, measurement to protect the load. The Harsh Environment UPS is always on-line, eliminating noise, spikes, sags, and brownouts. Should utility power fail, the inverter provides uninterrupted output power to the critical load. This high frequency unit is listed to UL1778, 924, and 924A by CSA.

Display (local and remote)

The Harsh Environment UPS provides one of the most comprehensive monitoring packages. Its 4 line X 20 character backlit LCD panel continuously display and monitor vital power line conditions and status of the unit.

Global Monitoring System (GMS)

The Harsh Environment UPS can communicate with computers, and serial devices via its local RS232/RS485 ports standard on every model making HEUPS compatible with today's most popular devices. Optional dry contacts are also available for remote monitoring and annunciation. GMS options includes dial-up modem, fax, alpha pager, beeper, email, and internet web page for monitoring or retrieving event logs and system status information.

Alarms

The Harsh Environment UPS offers local alarm and optional remote display with sound alert (including unit status). It also offers most extensive method of remote alarm notification via pager, email, fax, voice annunciation and website. The system can advise multiple recipients.

Small Footprint Cabinet

The Harsh Environment UPS requires less floor-space than most other UPS systems and Stackable Cabinet Rack are available as an option for more space savings. Its compact, lightweight design saves overall space, facilitates handling, and keeps shipping costs to a minimum.

Input Power Factor Correction

The Harsh Environment UPS pays for itself by correcting input current draw to reduce your utility bill without compromising power quality.

Isolation, Including Output Neutral To Ground Bonding

The Harsh Environment UPS provides the galvanic electrical isolation required by FIPS PUB 94 (Federal Information Processing Standard) and it qualifies as a true, separately derived power source as defined by the National Electrical Code, Article 250-5d. This isolation allows the HEUPS to offer excellent RF noise filtering and single point grounding for sensitive electronic equipment (standard on all models with different input/output voltages).

Distribution (optional)

Normally On and OFF Output breakers are available with optional trip alarm as well as customer selectable time delay.

Safeguard™ Battery Management System

OnLine Power has designed (patent pending) a process for the real time ability to charge and monitor the battery system. This system utilizes a microprocessor technology to monitor the batteries critical levels and apply charging cycles in a method substantially increasing battery life.

Listed to
UL1778, UL924, UL924A by CSA

Built-in Input Power Factor Correction

Modular Assembly for Ease of Installation

LCD Panel for Monitoring

Global Monitoring System (GMS)

90% Efficiency (typ.)

Pulse Width Modulated (PWM)

Generator Compatible with Automatic Governor max 2Hz per second

Transformerless Technology (Same Input/Output voltage only)

Double Conversion Technology

Battery Exerciser

Small Foot Print Cabinet and Certified Zone 4 Seismic Bracket

1 Year Warranty

HARSH ENVIRONMENT UPS

SPECIFICATIONS

Power Rating:	3, 5, 7.5, 10, 12.5, 15, and 20 KVA 3, 5, 7.5, 10, 12.5, 15, and 17 KW
Input Voltage:	3 & 5 KVA; 120, 208, 240, or 277VAC (-20% to +15%); 7.5 - 20 KVA; 208, 240, or 277 VAC (-15% to +15%)
Input Frequency:	Slew rate of 2Hz/sec
Output Voltages:	120, 208, 240, or 277VAC
Output Freq. (Inverter Operation):	60 Hz ±0.5 Hz
Voltage Regulation:	±3%
Output Wave Form:	Sine-Wave
Input Protection:	Input circuit breaker provided protection to the unit, load and personnel. Input Circuit Breaker will be higher interruption rated (10, 42, and 65 KAIC)
Output Protection:	Internal Electronic overload protection. Circuit breaker provides inherent over-load protection. Factory selectable voltage 120, 208, 240, or 277 for input or output voltages.
Output Power Factor:	0.7
Efficiency:	90% typical
Isolation:	Complete from line. Output neutral bonded to ground
Noise Isolation:	-120 dB Common-Mode; -60 dB Transverse-Mode
Battery:	Sealed maintenance-free (AGM) battery (optional Long Life Battery)
Recharge Time:	Conforms to UL Standard
External Battery:	Provisions for hardwire connection of optional external battery cabinets or DC source.
Environmental:	
Humidity:	0 - 95% RH w/ no condensation
Operating Temperature:	UPS: -40° to 58°C. (-40° to 136°F) Battery: 20° to 25°C. (68° to 77°F)
Storage Temperature:	-40° to 60°C. (-40° to 140°F) electronics only.
Altitude:	-1000 to +13,000 ft
Safety Agencies:	Listed to ULI778, UL924, UL924A by CSA
Cabinet Size:	Standard: 39"W x 74.5"H x 20"D Optional: 51"W x 77.5"H x 33.5"D

KW	Model Numbers	Input	Output	BTUs/HR	WEIGHT (lbs)	Cabinet Size W x H x D
2.1	HE3.0A01TLF1-96	120, 208, 240, 277	120, 208, 240, 277	1137	967	39" x 74.5" x 20"
3	HE3.0R01TLF2-96			2047	1433	
3.5	HE5.0A01TLF1-96			2047	1314	
5	HE5.0R01TLF2-96	3033		2047		
5.25	HE7.5A01TLF1-96	3033		2150		
7	HE010A01TLF1-96	3594		2866		
7.5	HE7.5R01TLF2-96	3594		3070	2 Std. Cabinets 39" x 74.5" x 20"	
8.75	HE12.5R01TLF1-96	3594		3070		
10	HE010R01TLF2-96	3594		4094		
10.5	HE015R01TLF1-96	4194		4299		
12.5	HE12.5R01TLF2-96	208, 240, 277	120, 208, 240, 277	4194	5118	or
14	HE020R01TLF1-96			7188	5732	
15	HE015R01TLF2-96			4194	6141	1 Optional Cabinet 51" x 77.5" x 33.5"
17	HE017R01TLF2-96			4194	6141	

Normally On and Normally Off Circuits are available at an additional cost. Please consult factory.

STANDARD FEATURES

- Back-lit LCD Display for monitoring
- RS 232 & RS 485 ports for metering, measuring, and diagnostic.
- System pre-wired for optional Global Monitoring System (GMS)
- Battery Breaker
- Inverter Test Switch
- Generator Compatible with Automatic Governor (Slew Rate 2Hz/sec.)
- High Frequency PWM with Digital Signal Processing Technology
- Built-in Input Power Factor Correction

OPTIONS

- Extended Warranty and Service Plans
- Lifting Eyes NEMA 3R and NEMA 4
- 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
- Secondary Auxiliary Output Circuit Breakers (Main or max. 10 total)
- Spare Part Kits Available
- Runtime Up to 13 Hours
- High Isolation Transformer with Harmonic Reduction (up to K-50)
- Heater Strip with Thermostat Control
- Heating Pad Assy for Battery System
- Seismic Mounting Brackets
- (5) Form "C" Contacts Alarms
- Output Distribution Limit
- Long Life Battery
- Stainless Steel, Zinc Anodized Aluminum Cabinets
- **Global Monitoring System LOCAL**
 - Local PC via RS232 and RS485
 - Event logging up to 500

REMOTE

- **Dial-up**
 - Voice (10 event logging), numeric pager
 - Voice, data, fax, pager, PC, e-mail, event logging up to 500
 - Voice, data, fax, pager, PC, e-mail, and measurement (500 event logging plus graphic)
- **Web/SNMP:**
 - System status, measurement, alarm notification, event logging and password protected configuration.

Consult Factory for more features and options

Specifications are subject to change without prior notification.

