Outdoor Emergency Lighting Inverter

HE-3 for Outdoor

10 to 60 kVA, Three Phase

Listed to
UL1778 and UL924

True Galvanic isolation design

The ultimate UPS solution – providing uninterrupted power and protection against noise, lightning, and leakage current.

Designed to protect against a floating neutral

Ensures the safety of personnel and UPS.

Advanced digital signal processing

Increased reliability and efficiency through the use of DSP, IGBT and advanced switching components.

Green Mode Operation

Hybrid design, customer selectable for green mode (fast transfer less than 2ms.).

Modular design for ease of troubleshooting and maintenance

Quick change components speed repairs and cut down time.

Redundant Multi-CPU design allows the software and hardware to work together as a team

This results in the highest reliability possible.

The most intelligent and safe battery test circuitry available today

- No risk of AC output failure during test of failed batteries
- Maximizes battery bank protection when leakage or a ground fault is present

Battery Exerciser

User selectable

Hi-Tech fan speed control

Increases fan life expectancy while reducing audible noise

Individualized inverter support on each phase

Maintains specified characteristics, even with 100% unbalanced load.

Intelligent, fully temperature compensated battery charger

- Prolongs battery life
- Selectable high charging capacity for large capacity extended backup time battery banks

Optimum design for heat dissipation

The control and power circuits are separated to reduce operating temperature for high reliability under adverse operating conditions.

Battery Power start feature

The unit can be started with or without the AC mains using battery power alone eliminating large surge currents.

A selection of optional accessories to meet your particular needs are available

- Remote control panel
- 3-Phase PC monitoring software
- Battery monitoring module
- 3-Phase SNMP card
- Emergency Power Off Switch
- Input harmonic filter – reduces T.H.D. (Total Harmonic Distortion) of the input current

Outdoor Applications

Production Facility
Testing Lab
Telecommunications
Industrial
Government
Public Building
Schools
Healthcare
Cruise & Cargo Ship
Banking
Printing Facility

OnLine POWER

HE-3 Specifications

Power Rating: 10, 20, 30, 40, 50, 60 kVA

Input Voltage: 208Y/120 V or 480Y/277 VAC (-15% to +15%)

Output Voltages: 208Y/120 V or 480Y/277 VAC

Output Frequency (Inverter Operation): 60 Hz ±1 Hz

Voltage Regulation: ±1% at 100% unbalanced load

Output Voltage Wave Form: Sine-Wave <2% THD.

Crest Factor: 3:1 Typical

Surge Protection: The UPS will protect itself and the load against surges as defined in ANSI/IEEE C62.41 Categories A and B.

Isolation: True galvanic isolated

Battery: Sealed maintenance-free VRLA or Long Life Battery (available upon request)

Recharge Time: Varies per KVA and conforms to UL924.

Environmental:

Humidity: 0 - 90% (non-condensing)

Operating Temperature: UPS: 0˚ to 58˚C. (32˚ - 136˚F)
Battery: 20˚ to 25˚C. (68˚ - 77˚F) higher temperature batteries are available for special order

Storage Temperature: -20˚ to 60˚C. (-4˚ - 140˚F) electronics only.

Altitude: Up to 5,000 ft

Inverter Cabinet: 34"W x 63"H x 31.5"D

Battery Cabinet: 51"W x 70"H x 30.5"D

Outer Cabinet: 71"W x 83"H x 45"D

Battery	Sealed Lead Acid VRLA
No. of batteries	29
Voltage Range	295 - 410V
Low Batt Volt (warning)	320 VDC
Low Batt Shut Down	295 VDC
Boost Charge	402 VDC
Float Charge	390 VDC

KVA/ KW	Input - Output Voltages	MODEL NUMBERS	DC Volt.	BTU/ Hr (std. mode)	BTU/ Hr (green mode)	Weights (lbs)	
						UPS	Each Battery Cab (#) of cab
10 / 8	208/120 - 208/120 480/277 - 480/277	PW010B05ATT3-HE PW010H09ATT3-HE	348	2218	1742	840	2187 (1)
20 / 16	208/120 - 208/120 480/277 - 480/277	PW020B05ATT3-HE PW020H09ATT3-HE	348	4436	2873	1083	4014 (1)
30 / 24	208/120 - 208/120 480/277 - 480/277	PW030B05ATT3-HE PW030H09ATT3-HE	348	6483	4310	1260	4594 (1)
40 / 32	208/120 - 208/120 480/277 - 480/277	PW040B05ATT3-HE PW040H09ATT3-HE	348	8871	5747	1414	3536 (2)
50 / 40	208/120 - 208/120 480/277 - 480/277	PW050B05ATT3-HE PW050H09ATT3-HE	348	10236	5687	1525	3536 (2)
60 / 48	208/120 - 208/120 480/277 - 480/277	PW060B05ATT3-HE PW060H09ATT3-HE	348	11942	6824	1724	4594 (2)

STANDARD FEATURES

- 6 pulse or 12 pulse controlled rectifier (12 pulse for 80 kVA & up)
- Input main circuit breakers
- Data and events LCD display
- Built-in Transient Voltage Surge Suppressor
- EMI suppression
- PWM methodology (DSP)
- Isolation transformer at output for True galvanic isolation
- Modular design to facilitate ease and speed of service
- Cold start function: UPS can be started with battery power only without an AC source
- Green Mode Operation
- Multi-CPU design: Several CPUs are employed in control circuit and critical functions are designed with parallel redundancy for added reliability
- Protection against misuse: circuit breaker on/off sensor, and power supply sensor, the user cannot cause UPS damage by operator error.
- Intelligent charger: UPS will automatically recharge with temperature compensation.
- Intelligent battery test
- Redundant power supply
- RS-232 / RS-485 for varies accessory options
- External Shutdown- two pairs of terminals for UPS shut down
- DB9 Connection-4 of RS-485 & 1 of RS-232:

  The following are some connection examples of optional modules
  - CNR21 (RS-232): UPSCOM- Software for PC Monitoring, SNMP card
  - CNR9 (RS-485): DCMAN- Battery Monitoring Module
  - CNR10 (RS-485): UPSCAN- Remote Control Panel
  - CNR12,13,14,15,17,18,19 (RS-485): UPSCALL- Auto Dialing Module
  - CNR11: for transferring RS-485 into RS-232

OPTIONS

- Remote control panel UPSCAN™
- Software for PC monitoring UPSCAN™
- Auto dialing module UPSCAN™
- Battery Monitoring module DCMAN™
- Output Circuit Breaker
- Battery Exerciser
- 8 Dry contacts: INVON,OVL,FAULT, SS, BYPASS, BACK-UP, BATL, COM.

Specifications are subject to change without prior notification.

6005-200 Rev B.

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