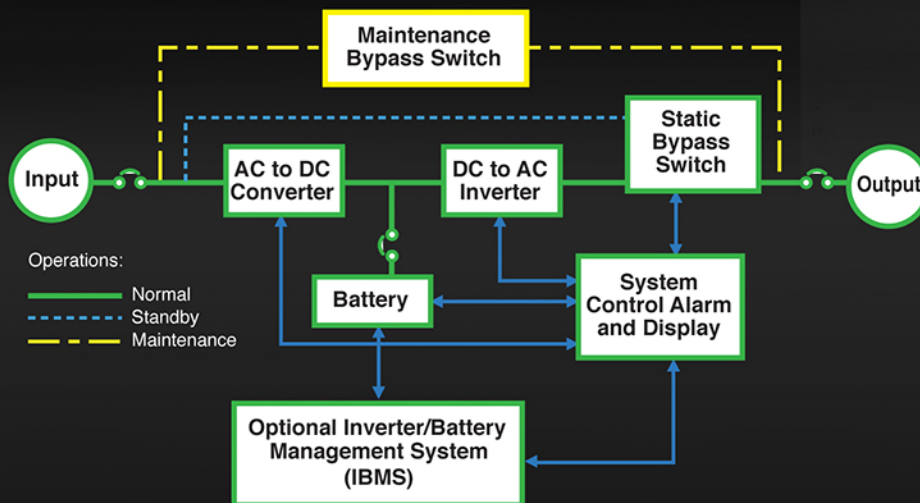# FORTRESS 3 HARSH
ONLINE OUTDOOR EMERGENCY LIGHTING INVERTER
KEEP THE LIGHTS "ON" WHEN YOU NEED THEM THE MOST
THREE PHASE 3 KW - 30 KW

Defends your environment against unwanted power outage and electrical disturbances by providing:

- DSPM Watchdog software always on guard.
- Display monitor keeps you in control 24/7.
- Dependable DSP/PWM technology for unsurpassed reliability.
- Economical for the lowest overall cost for your light safety with an Energy Star Rating.
- Temperature compensating technology that controls batteries for the longest battery life.
- Sealed maintenance-free batteries.
- Full light output for entire 90 minutes.
- Self-diagnostics for a safe and secure lighted environment.
- Pure sine wave ouptut for all types of lamps.
- ECM module is a patented technology used by DSPM.
- Backup solutions for multiple applications such as: indoor and outdoor emergency lighting, exits, cash registers, computers, strategic electronics, and more!
- 10 Year pro-rated battery warranty.
- 5 Year power train warranty.
- Listed to UL924, UL1778, and UL 508
- Cities of Chicago and New York approved.
- Complies with the Buy American Act.

Maintenance Bypass Switch

Static Bypass Switch

Input

AC to DC Converter

DC to AC Inverter

Output

Battery

System Control Alarm and Display

Optional Inverter/Battery Management System (IBMS)

Operations:
- —— Normal
- ----- Standby
- —·— Maintenance

ETL LISTED

energy

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3.0, 4.5, 6.0, 8.0, 10.0, 12.0, 16.0, 20.0, 24.0, and 30.0 KW,...........Standard Power Levels*

120, 208, 240, 277 or 480 VAC...........................Input Voltage*

+10% -15%...........Input Voltage Range*

120, 277, 480, 120/240 or 120/277 VAC....................Output Voltage*

±3% for all loads and battery discharge mode.....Output Voltage Regulation*

60 Hz, ±1%........Output Frequency Range*

Sine-wave <5% @ 100% linear load................Output Wave Form

2.5:1 typical............................Crest Factor

Input Main Circuit Breaker.......................Input Protection

Output Main Circuit Breaker....................Output Protection

The unit will protect itself and the load.....................Surge Protection
against surges as defined in
ANSI/IEEE C62.45 Category A and B

Sealed maintenance-free (AGM) lead calcium......................................Battery

Conforms to UL924 standards....................Recharge Current

Provision for hardware connection of.........................External Battery
external battery cabinets or DC source

≥92% at 100% linear road..................................Efficiency

<45dB measured on Response Curve "A"............................Audible Noise

UL924 and UL1778...............................ETL Listed**

-20º to 50ºC (-4º to 122ºF)..............Operating Temperature

-20º to 60ºC (-4º to 140ºF)................Storage Temperature

5 - 100%, Non-condensing...................................Humidity

NEMA 4X.....................................Cabinet

*Consult factory for others.
**Safety agency evaluated for indoor operation.
Specifications subject to change without notice.

Options:
ECM - Environmental Control Module
NOF - Normally OFF Circuit
NOH - Normally OFF "Hold On"
OCB - Output Circuit Breker(s)
EPO - Emergency Power Off
RSSP - Remote Indicatoor Panel
SNMP - SNMP Card
FC - Form C Contacts
STU1 - Onsite Startup
IDB - Internal Dimmer Bypass
EMB - External Maintenance Bypass
HE - Heat Exchanger
HTR - Heater
EW - Extended Warranty
IBMS - Inverter/Battery Monitoring System

Represented by:

Fortress Harsh 3	Power Rating	UPS Cabinet Dimensions			Battery Cabinet Dimensions			Weight (combined)
	KVA/KW	W	H	D	W	H	D	(lbs)
FTH3 (Consult factory for other capabilities)	3	41"	52"	36"	not required			1730
	4.5	41"	52"	36"	not required			1850
	6	41"	52"	36"	not required			2100
	8	41"	52"	36"	not required			2450
	10	41"	52"	36"	not required			3000
	12	41"	52"	36"	41"	52"	36"	3450
	16	41"	52"	36"	41"	52"	36"	3700
	20	41"	52"	36"	41"	52"	36"	4550
	24	Consult Factory						
	30	Consult Factory						