E3X

750VA Mid-Size Inverter

DATE:

COMMENTS:

PROJECT

FEATURES

- For powering incandescent, fluorescent, induction and LED fixtures
- Sinusoidal output eliminates compatibility problems
- Universal 120/277VAC, 60Hz. input/output
- “Soft Start” design reduces fixture inrush current
- Unit may be installed up to 1,000 feet from controlled fixture(s)
- Lumen output from fixture is 100% of nominal
- Unique design eliminates compatibility problems with LED drivers as well as fluorescent and induction ballasts
- Compatible with dimming ballasts
- Normally-ON and/or Normally-OFF load output
- Provisions for local switching capability - Always on during emergency conditions regardless of local switch position
- Emergency fixtures can be ON, OFF or SWITCHED
- Solid-state, line latched low voltage disconnect provides protection against battery deep discharge
- Long life, maintenance-free lead-calcium battery
- Momentary test switch
- AC-ON, Charge-ON and Inverter-ON LED indicators
- Input circuit breaker, standard

ORDERING INFORMATION *E3X-750-C1*

1. SERIES		2. WATTAGE		3. OUTPUT BREAKERS		4. OPTIONS
E3X	-	750	-		-	
		750 750W		**BLANK = NO OPTION** **C#** *Normally On Breakers (1-5)		**BLANK = NO OPTION** **SD** Self-Diagnostics **DIM** Four Circuit 0-10V Dimming Output **SW** Four Output Circuit Switch

SPECIFICATIONS

CONSTRUCTION

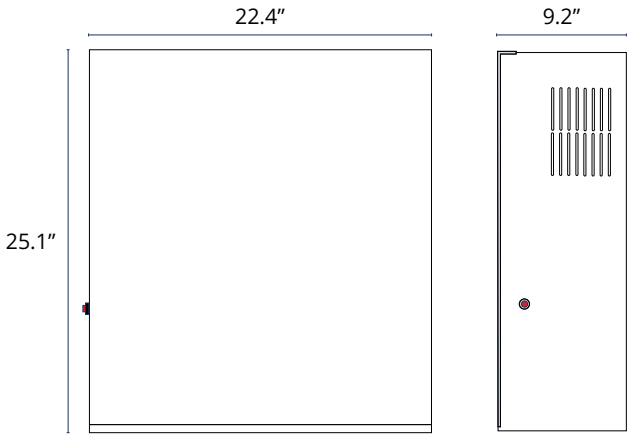
- Heavy duty steel cabinet is finished in white baked-on powder paint providing scratch and corrosion resistance

MOUNTING

- Surface mount models are designed for mounting to walls by means of keyhole slots provided in the back of the unit housing

WEIGHT

- 190 lbs



SPECIFICATIONS AND DETAILS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.
CONTACT ISOLITE FOR UP TO DATE DETAILS.

E3X

750VA Mid-Size Inverter

SPECIFICATIONS (CONTINUED)

OPTIONAL FEATURES

- 1-5 output breakers
- Adjustable Output/Dimmer bypass
- 4 output circuit switching
- Self-diagnostics

INPUT

- Input Voltages: Dual 120 or 277VAC ±10% (User selectable with two jumper wires provided)
- Input Frequencies: 60Hz ±2%
- Input Surge Protection: Meets UL924
- Input Protection: Provided by Service Panel rated at 20 amps maximum
- Input circuit breaker, standard

OUTPUT

- Output Voltages: 120 or 277VAC, 60Hz
- Efficiency Rating: 98% at full rated load (line)
- Waveform: Sinusoidal (digitally controlled)
- Static Voltage: ±5% during battery discharge. 0-100% linear load
- Output Frequencies: 60Hz. ±0.3Hz during emergency cycle
- Output Distortion: Less than 3% THO (linear load)
- Transfer Time: Less than 1.0 second
- Load Power Factor Range: 0. 88 Lead to 0. 88 Lag
- Minimum Loading: 0% of rated system capacity
- Output Protection: Circuit breaker and overload shut down protection

LOAD COMPATIBILITY

- Lighting loads are driven at 100% output for the entire emergency power cycle. This outstanding feature translates into greater occupant egress vision and safety.

BATTERY

- 48VDC Sealed Lead Calcium with 10-Year pro-rated warranty
- 90-minute standard
- Low voltage battery disconnect protects the battery from being severely damaged by deep discharge during prolonged power failures. Reverse polarity, DC overload and short circuit protection provided by a DC input breaker and fuse.

CHARGER

- Fully automatic, temperature compensated, dual-mode charger
- Power Consuption: 53W Maximum
- Momentary test switch, AC-ON, Charge-ON and Inverter-ON LED indicator lights
- AC Lockout prevents battery discharge prior to initial unit power-up. Brownout Protection automatically switces the unit to emergency mode when utility voltage is significantly reduced.

TEMPERATURE RATING

- From 68°F to 86°F

  Battery service life will be negatively impacted at ambient temperatures above 77°F

WIRING

- Connection to an unswitched AC circuit is required by the NEC. Wiring access is provided for by conduit knockouts in the unit housing.

APPROVALS

- UL 924
- NFPA 101 Life Safety Code
- NEC
- OSHA
- UL Listed for Damp Locations (68°F to 30°F)
- CEC Title 20
- FCC Part 15 Class A Compliant

WARRANTY

- Isolite warrants the E3X series lead calcium batteries for a 1-year full and 9-year pro-rated limited warranty.
- For further details, refer to General Warranty and Obligations in the Isolite manual or on our website.

GENERAL SPECIFICATIONS

Model	INPUT/OUTPUT VOLTAGE	CAPACITY WATTS/VA	SYSTEM EFFICACY	NUMBER OF BATTERIES	NUMBER OF BATTERY STRINGS	BATTERY VOLTAGE (VDC)	BATTERY VOLTAGE (ADC)	AC INPUT CURRENT (MAX AMPS)		THERMAL OUTPUT (BTUs)	
								120VAC	277VAC	ON-LINE	EMERGENCY
E3X-750	120/277VAC	750/750	98%	8	2	48	18.2	7.53	3.26	14	416

SPECIFICATIONS AND DETAILS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.
CONTACT ISOLITE FOR UP TO DATE DETAILS.

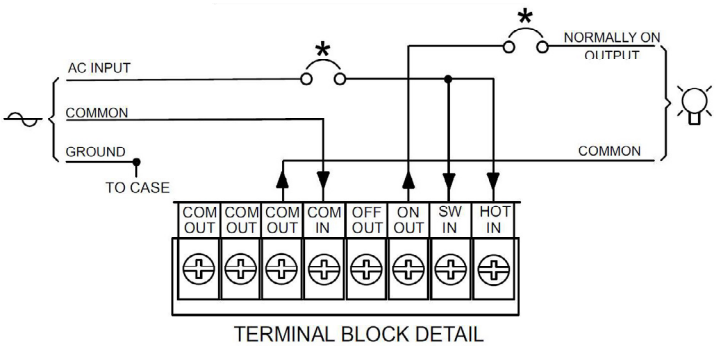
isolite

E3X

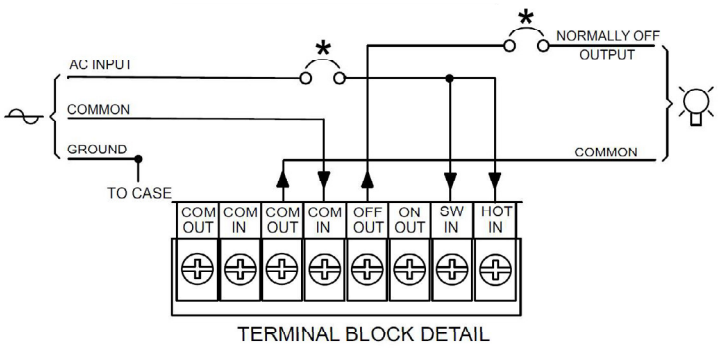
750VA Mid-Size Inverter

WIRING DIAGRAMS

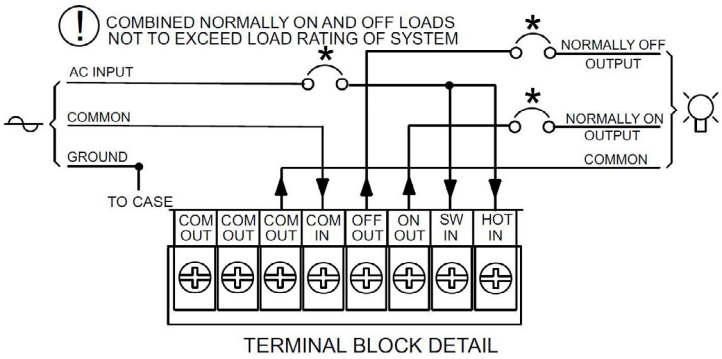
NORMALLY ON LOADS



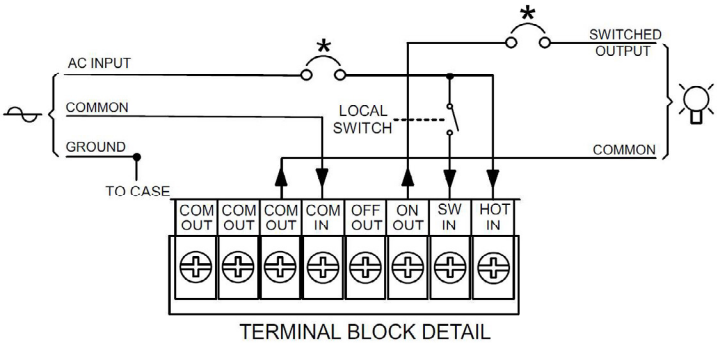
NORMALLY OFF LOADS



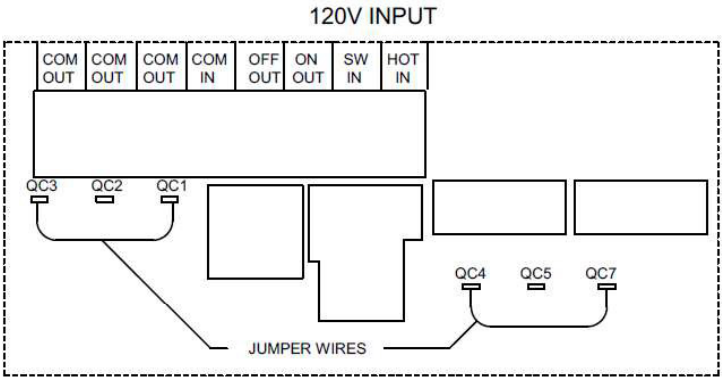
NORMALLY ON & OFFLOADS

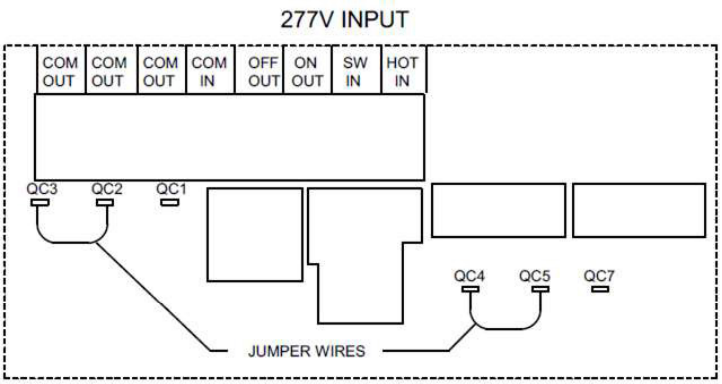


SWITCHED LOADS



VOLTAGE SELECTION DETAIL





NOTE

Factory terminated jumper wires are provided with NEW Systems for making user selected input/output voltage connections.

SPECIFICATIONS AND DETAILS ARE SUBJECT TO CHANGE WITHOUT NOTIFICATION.
CONTACT ISOLITE FOR UP TO DATE DETAILS.