E3MINI

Pure Sine Wave Mini Inverter

DATE:

PROJECT

COMMENTS:



FEATURES

- Field-selectable 120 or 277 VAC input/output.
- 1 normally-on and 3 configurable normally-off/switched outputs for the 125VA and 250VA models. 1 normally-on and 4 configurable normally-off/switched output types for the 375VA and 550VA models.
- Crest Factors: 10X for 125VA, 5X for 250VA, 7.5X for 375VA, and 5X for 550VA model.
- Advanced startup, charger and inverter diagnostics prevent failures from wiring errors, overloads and application issues.
- Front facing module allow for easy field wiring of AC input/output wires and all system connections/interfaces.
- Advanced hysteretic ultra-efficient charger improves efficiency and extends battery lifetime.
- UI 924 and CSA 22.2 approved.
- Includes self-testing/self diagnostics.
- Optional internal DALI/0-10V dimming interface allows for up to 3 independent zones and allows 5 different dimming presets to adjust emergency lighting levels.
- High purity, premium valve regulated lead acid (VRLA) with lead-calcium plates provide long life and durability.
- Max Connected Load w/ Dimmer Option: 375VA for the 125VA and 250VA models and 1,125VA for the 375VA and 550VA models (non-EM mode).

ORDERING INFORMATION *E3MINI-125-LC-MB*

1. SERIES	2. VA RATING	3. BATTERY TYPE	4. MOUNTING	5. OPTIONS
E3MINI -	-	LC -	-	-
	125 125VA[2] **250** 250VA[2] **375** 375VA **550** 550VA	**LC** Lead Calcium	**MB** Back Mount **MCG** Ceiling Grid[1, 3]	BLANK = NO OPTION **FD** 3 Zone 0-10V/DALI Dimming & Fire Alarm Interface **RT** Remote Diagnostic Status Display Panel for Back Mount Inverters **AA** Audible Alarm (Buzzer) **CL** Canada Listed **EB** Extended Run Time (2h)[2] **Z4** Seismic Zone 4 Restraints **LB** Ship Less Batteries

ORDERING NOTES

1. Only available with 125VA unit.
2. Extended Run Time (EB) for 125W and 250W only. Capacity reduced to 100VA and 200VA respectively.
3. Remote Diagnostic Status Display Panel (RT) included with MCG mounting

ACCESSORIES; ORDER SEPARATELY

- **E3MINI-FPS** = E3MINI 125/250/375/550 Factory Phone Startup (per unit)
  NOTE: INCREASES ELECTRONICS WARRANTY TO 5 YEARS
- **TLRT** = Infrared Remote Control for Industrial Products

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SPECIFICATIONS

INPUT

- Field-selectable 120 or 277 VAC input/ output.
- Current: 1.4A (120V), or 0.6A (277V) for 125VA model.
- Current: 2.7A (120V), or 1.2A (277V) for 250VA model.
- Current: 4.10A (120V), or 1.19A (277V) 375VA model.
- Current: 5.95A (120V), or 1.98A (277V) 550VA model.
- Frequency: 60Hz +/- 2 Hz
- Protection: easy access 8A fast acting 5x20mm fuse.
- Power Factor: 0.5 lead to 0.5 lag

OUTPUT

- Voltage: 120 or 277 VAC and matches input selection.
- Current: 1.04A (120V), or 0.45A (277V) for 125VA model.
- Current: 2.08A (120V), or 0.9A (277V) for 250VA model.
- Current: 3.12A (120V), or 1.35A (277V) 375VA model.
- Current: 4.85A (120V), or 1.98A (277V) 550VA model.
- Frequency: 60Hz +/- 0.02 Hz crystal controlled during emergency mode.
- Overload: 110% will generate overload fault.
- Configurable Transfer Times: 50mS, 1s (default), or 2s
- Output Distortion: less than 3% THD
- Crest Factor: 10X for 125VA, 5X for 250VA, 7.5X for 375VA, and 5X for 550VA model
- Load Power Factor: 0.5 lead to 0.5 lag
- Output Types: 1X normally-on and 3X configurable normally-off/switched for 125VA and 250VA models. 1X normallyon and 4X configurable normally-off/ switched for 375VA and 550VA models.
- Max Connected Load w/ Dimmer Option: 375VA for the 125VA and 250VA models and 1,125VA for the 375VA and 550VA models (non-EM mode).

BATTERY

- Type: premium long life valve-regulated lead acid (VRLA)
- Charger: three rate charger temperature compensation
- Recharge Time: 24 hour recharge
- Protection: automatic low voltage disconnect (LVD) set at 1.67 VPC.
- Automatic restart upon utility return.
- Runtime: 90 minutes at 25C°
- DC Voltage: 24 VDC nominal, 2.27 VPC float, temperature compensated
- DC Current: 6.12/12.4 ADC nominal (125/250VA Model)
- DC Current: 18.25/27 ADC nominal (375/550VA Model)

ENVIRONMENTAL

- Operating Temp: 20C° to 30C° (68ºF to 86ºF)
- Storage Temp: Electronics - 20C° to 70C° (68ºF to 158ºF)

BATTERY STORAGE TEMP	
51°F (11°C) TO 77°F (25°C)	180 DAYS
78°F (26°C) TO 92°F (33°C)	90 DAYS

- Relative Humidity: <95% (non-condensing)

PHYSICAL

- Cabinet: NEMA Type 1 enclosure with 16 AWG powder painted CRS.
- Cooling: natural convection – no fans
- Electrical knockouts (EKO's) for 1/2" and 3/4" conduit provided on three surfaces.

FULL LOAD BTU/HR

- 125VA: 8.5 BTU/hr
- 250VA: 17.0 BTU/hr
- 375VA: 25.6 BTU/hr
- 550VA: 37.5 BTU/hr

WEIGHT

- 125VA: 33 lbs.
- 125VA T-Bar: 38 lbs.
- 250VA: 68 lbs.
- 375VA: 100 lbs.
- 550VA: 120 lbs.

APPROVALS

- UL 924 certified
- UL 2043 (Plenum Rated)
- New York City approved, Calendar Number 51575
- NFPA 101 Life Safety Code
- NFPA 70-NEC
- OSHA certified
- NEMA Type 1 enclosure
- NEMA 410 load tested up to 375VA (125/250VA Model) and 1,125VA (375/550VA Model).
- BAA Compliant

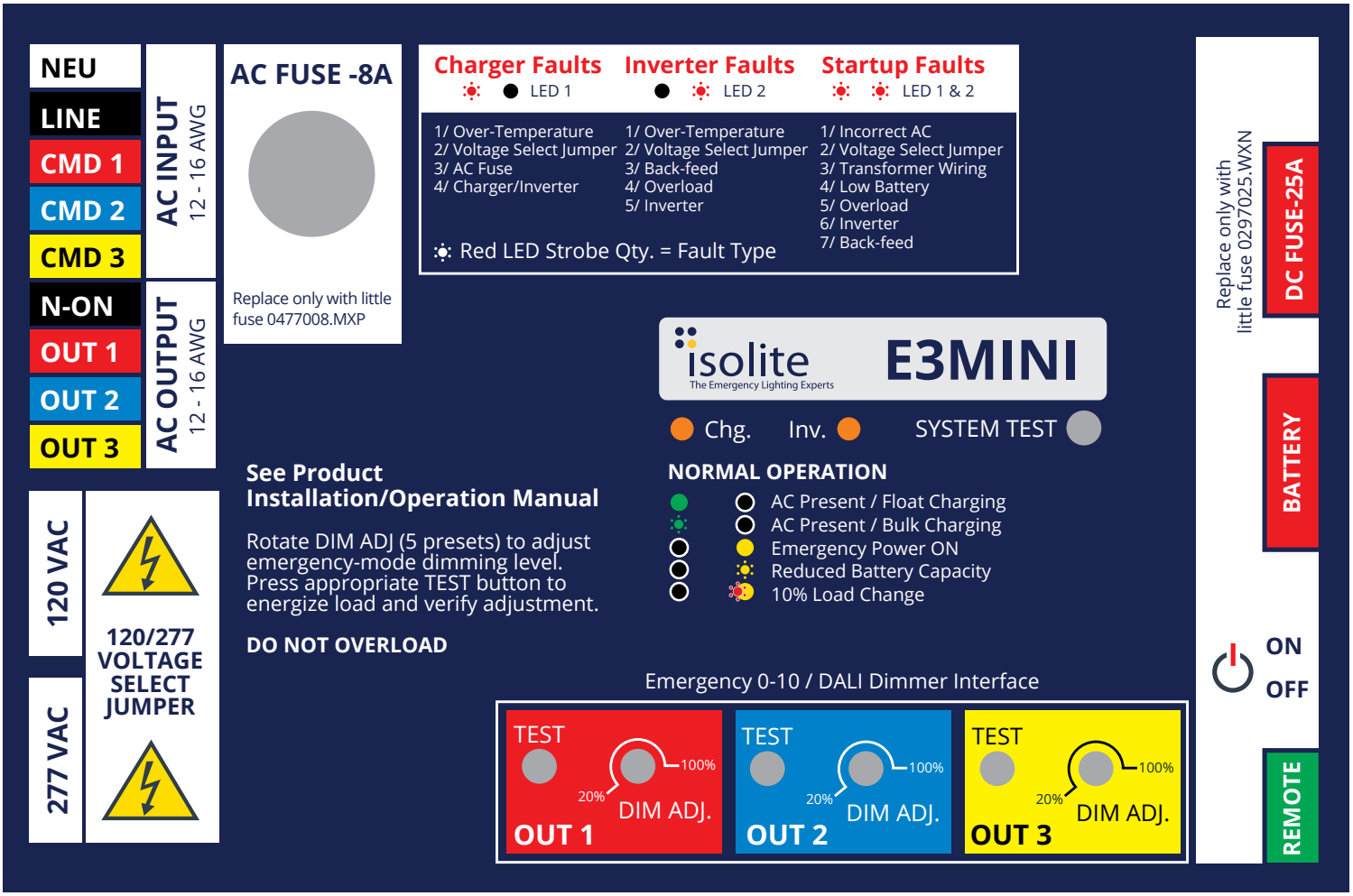
WARRANTY

- Isolite warrants the E3 Series electronics assembly against defects in material and workmanship for a period of 3 years.
- Isolite warrants the lead calcium batteries for 3 years full and 7 years pro-rata limited.
- For further details, refer to General Warranty and Obligations in the Isolite manual or on our website.

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FRONT PANEL



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ISOLITE WEST ▪ 800.799.5343 ▪ 3563 SUELDO SUITE M, SAN LUIS OBISPO, CA 93401

D-7.2.3.0.-228 ▪ REV-18 ▪ 20260818

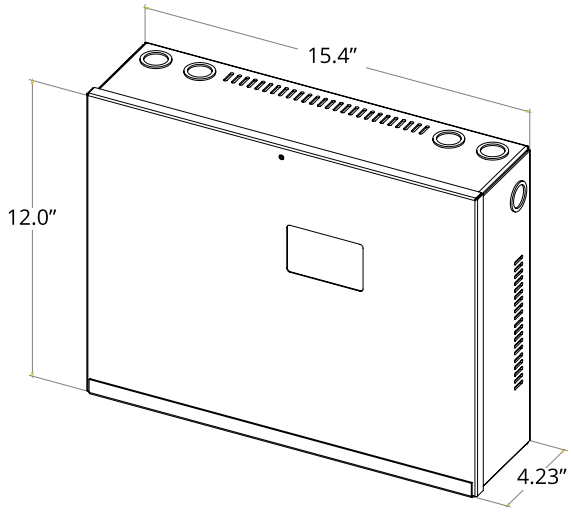
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CONTACT ISOLITE FOR UP TO DATE DETAILS.

E3MINI

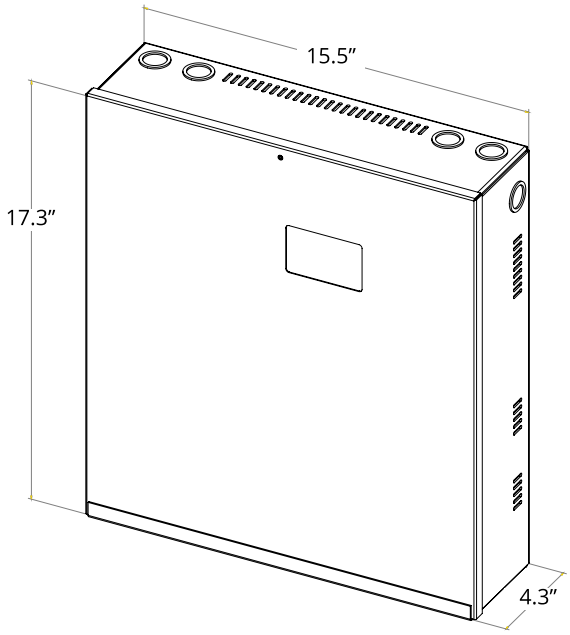
Pure Sine Wave Mini Inverter

DIMENSIONS

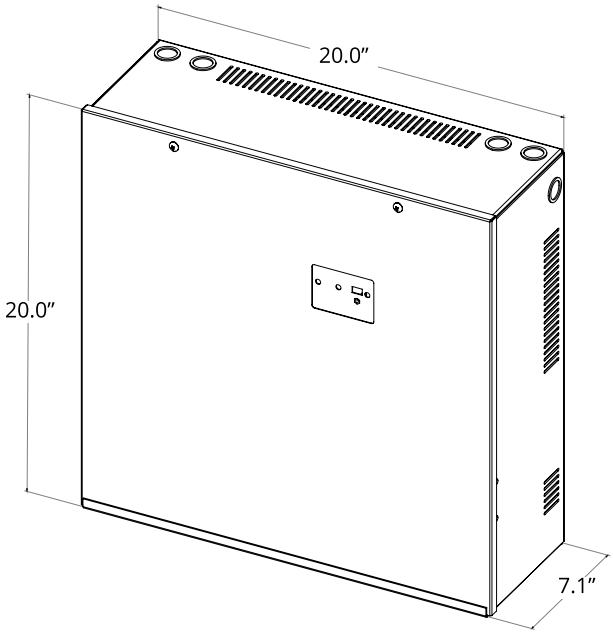
E3MINI 125VA



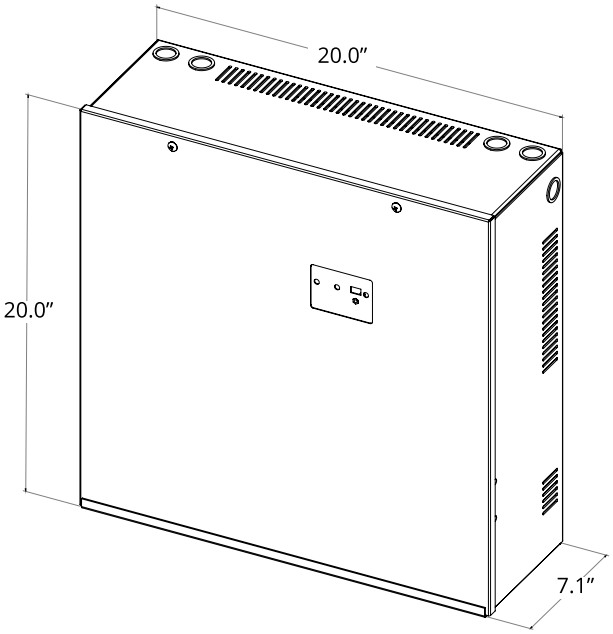
E3MINI 250VA



E3MINI 375VA



E3MINI 550VA



WEIGHTS

MODEL	WEIGHT
125	33 lbs.
125 T-Bar	38 lbs.
250	68 lbs.
375	100 lbs.
550	120 lbs.

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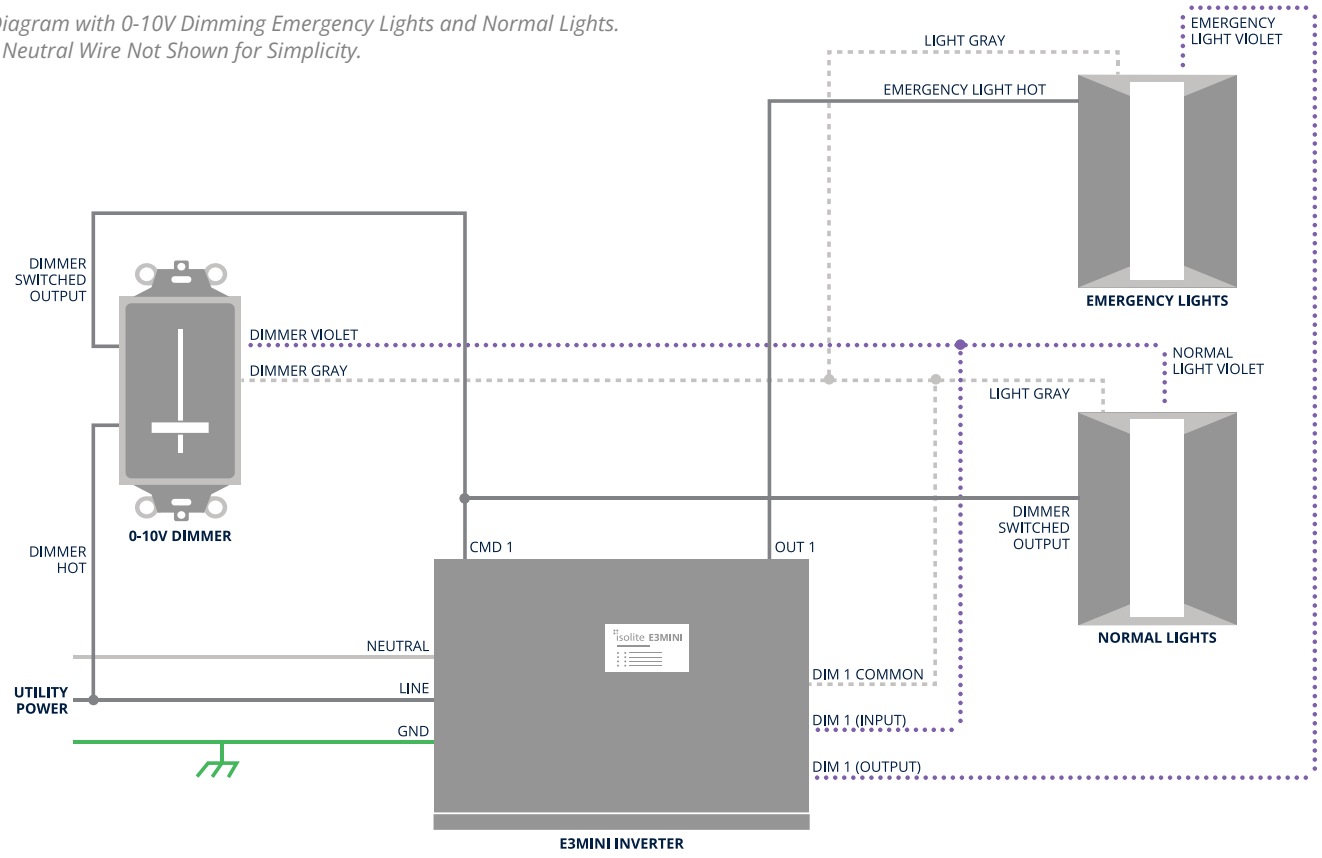
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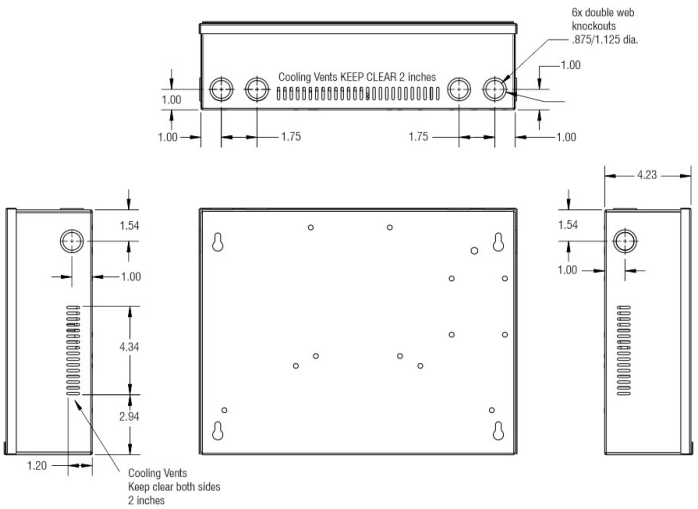
MINI INVERTER WITH DIMMING INTERFACE OPTION

Wiring Diagram with 0-10V Dimming Emergency Lights and Normal Lights.
Lighting Neutral Wire Not Shown for Simplicity.

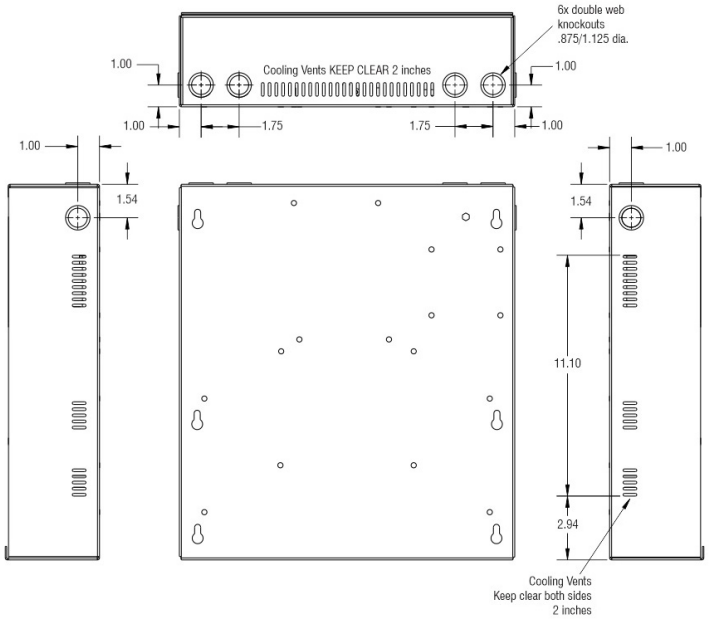


KNOCKOUT LOCATIONS

E3MINI 125VA



E3MINI 250VA



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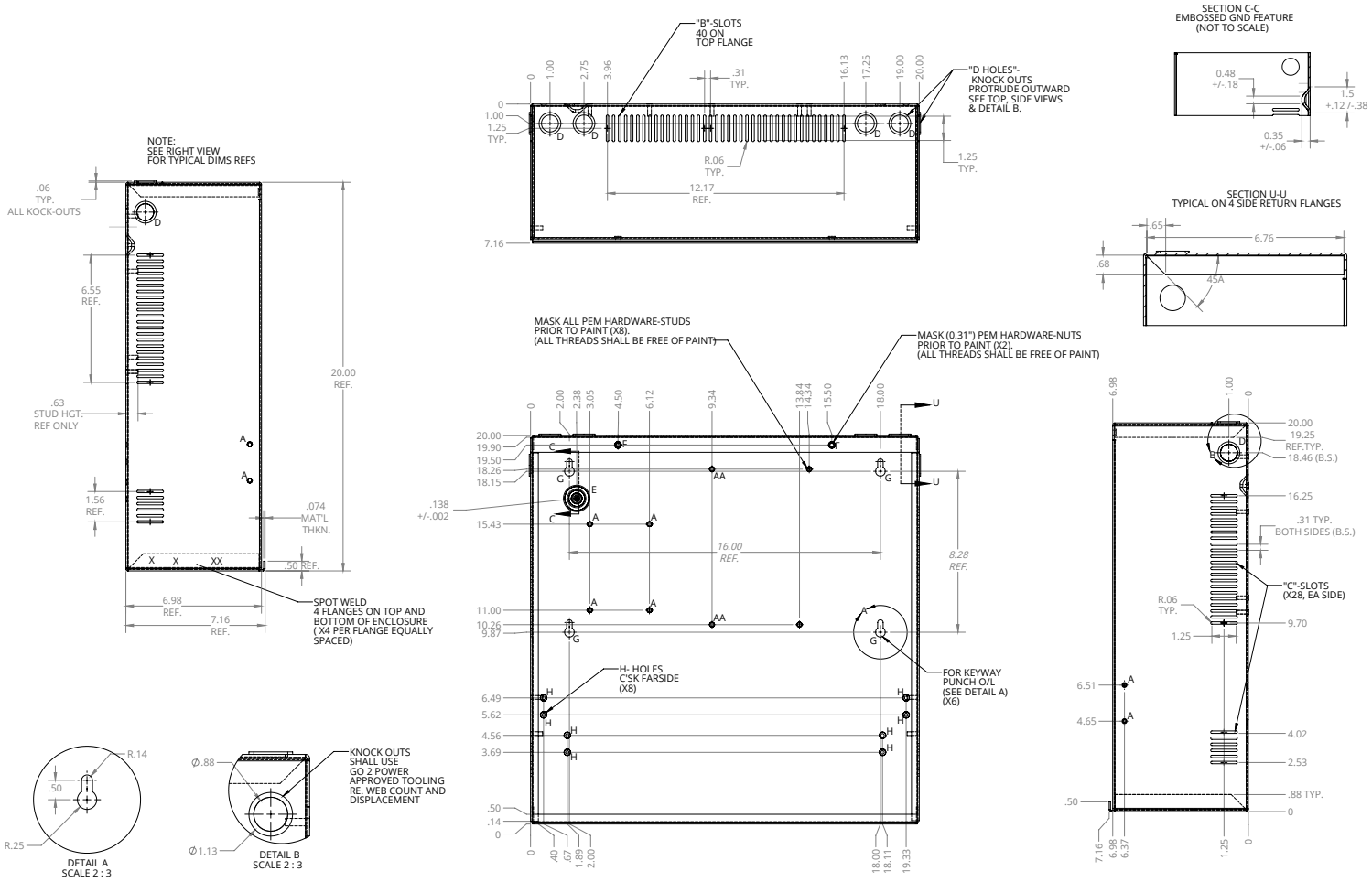
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KNOCKOUT LOCATIONS (CONTINUED)

E3MINI 375VA / 550VA

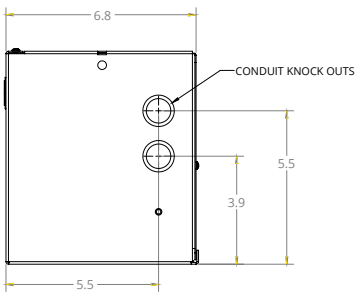


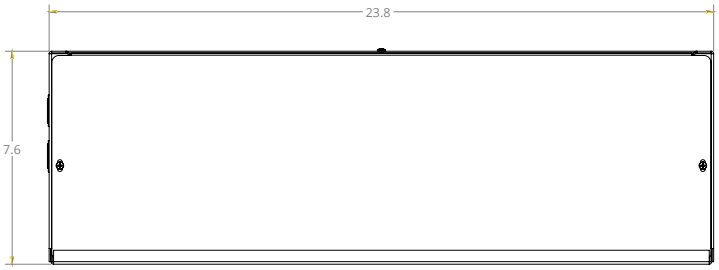
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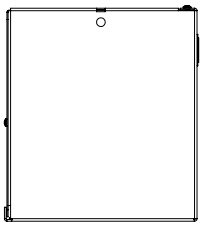
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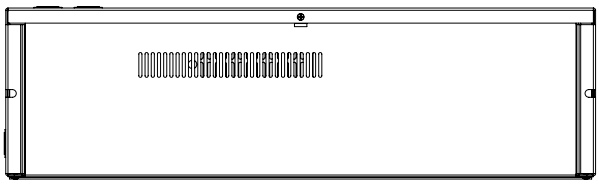
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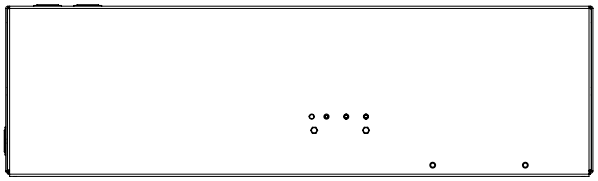
CEILING GRID MOUNTING

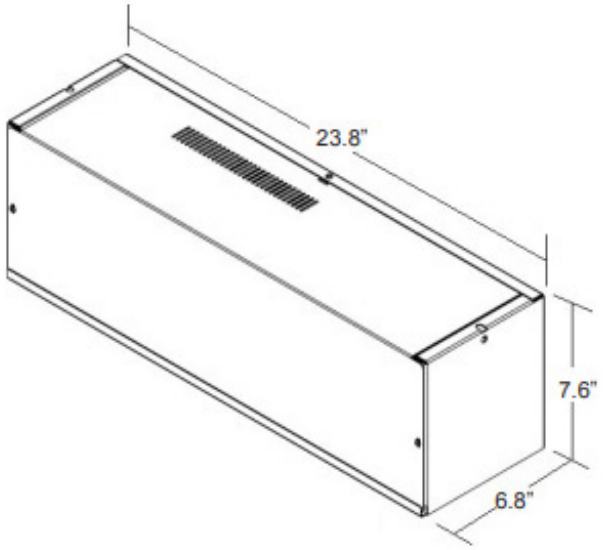












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