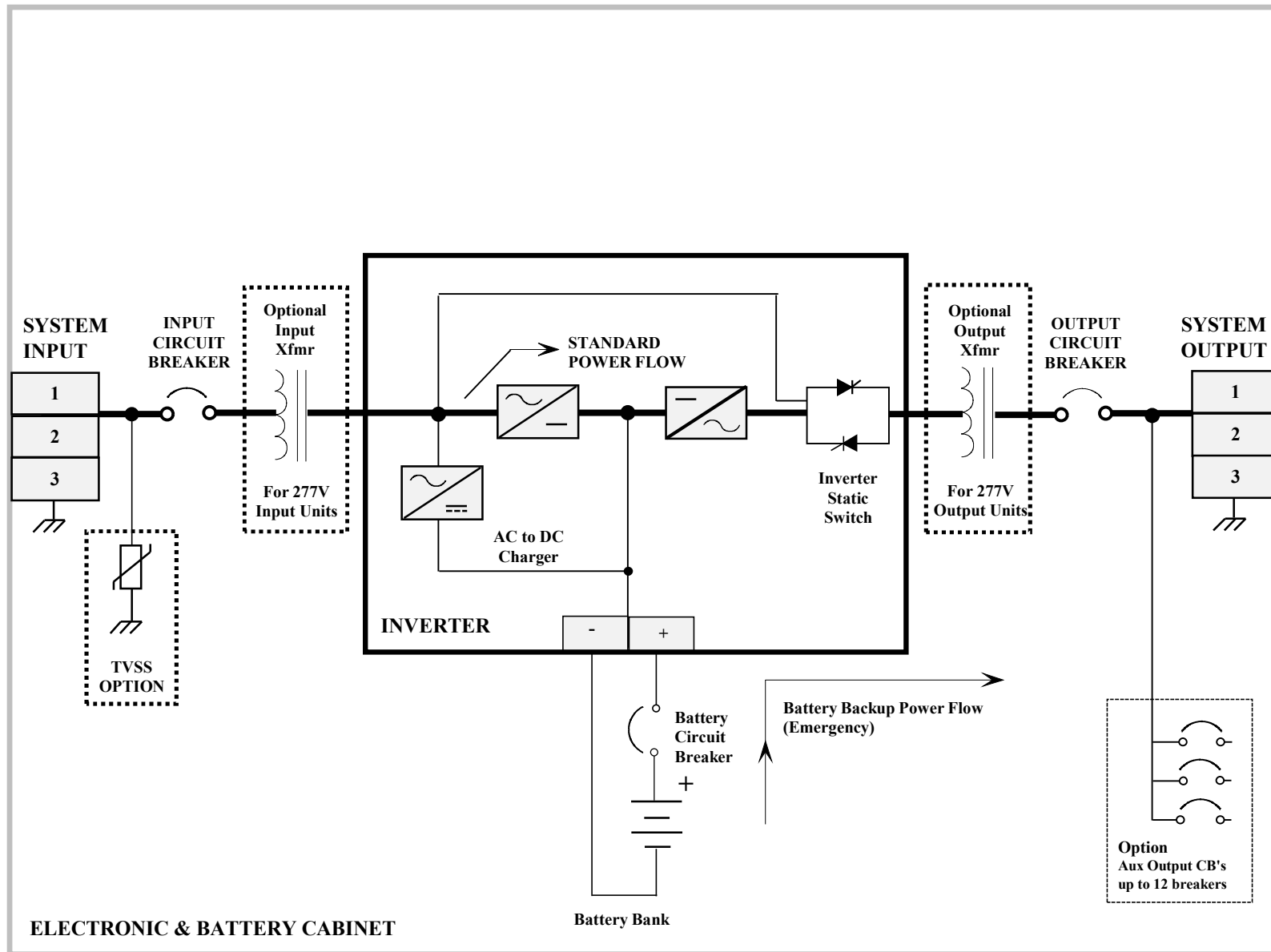



# ECONOSINE 2 CENTRAL LIGHTING INVERTER SINGLE LINE DIAGRAM



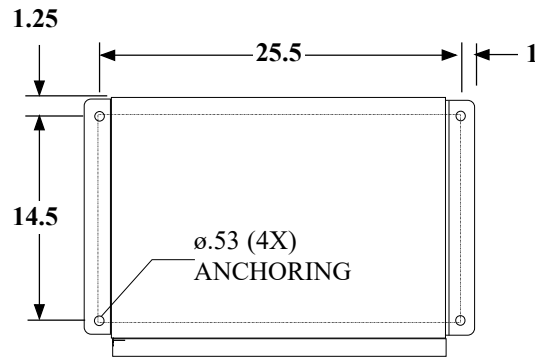
## NOTES:

1. Dotted blocks are optional features.

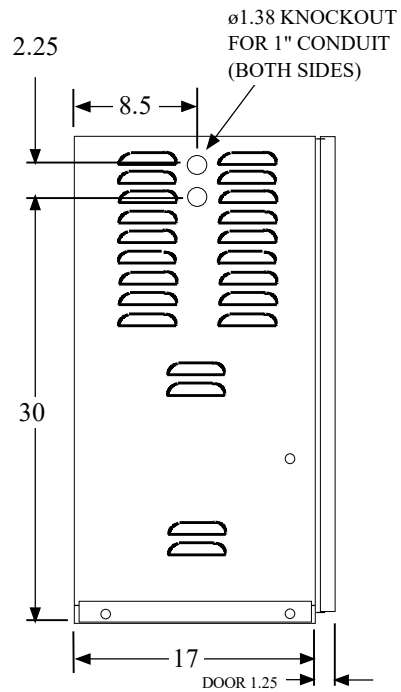
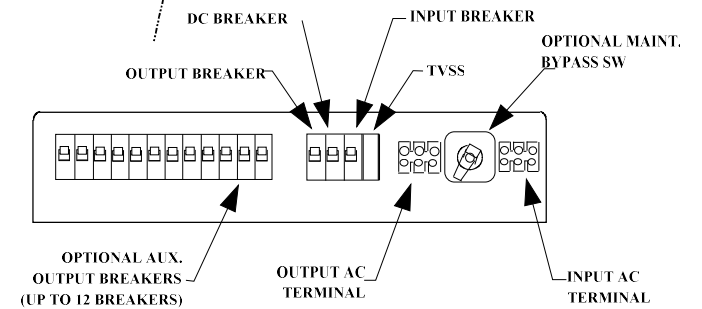
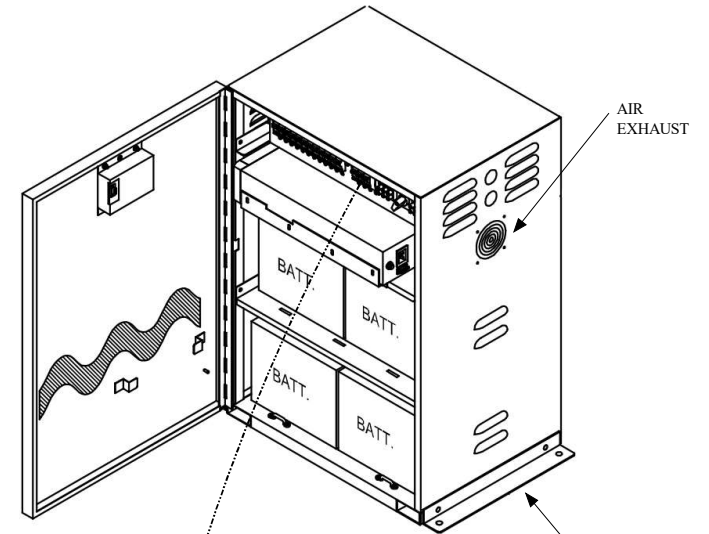
ECONOSINE 2 TYPICAL SINGLE LINE DIAGRAM		SHT 1 OF 1
 <b>CRUCIAL POWER PRODUCTS</b> SUBJECT TO CHANGE WITHOUT NOTICE		
DRAWN : SHERRIS.	1/25/23	405-TD-010
APPVD : H.N	1/25/23	
		REV A

# ECONOSINE 2 CENTRAL LIGHTING INVERTER

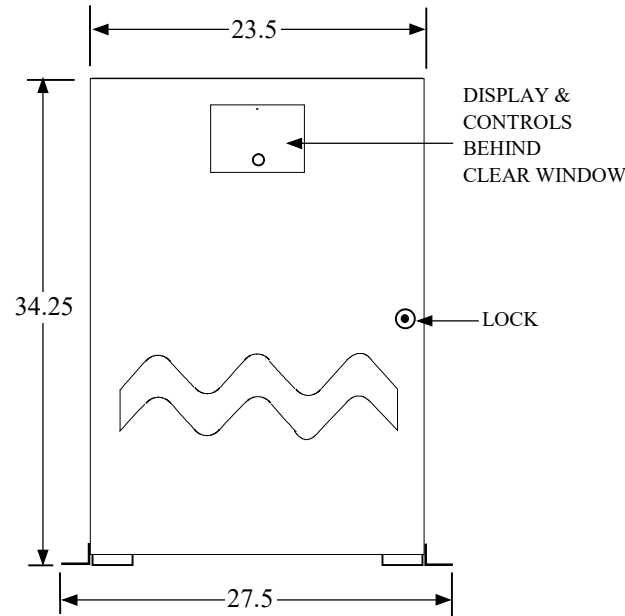
## ISOMETRIC VIEW WITH OPTIONAL SEISMIC BRACKETS



**TOP VIEW**




**SIDE VIEW**



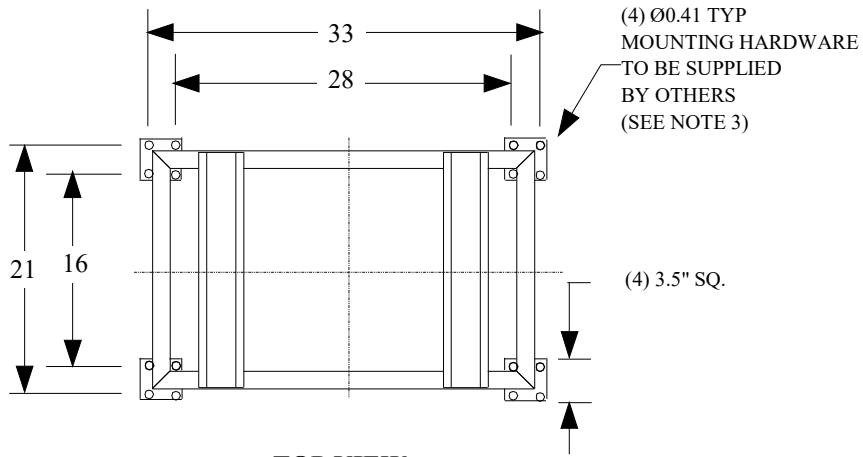
**FRONT VIEW**

### NOTES:

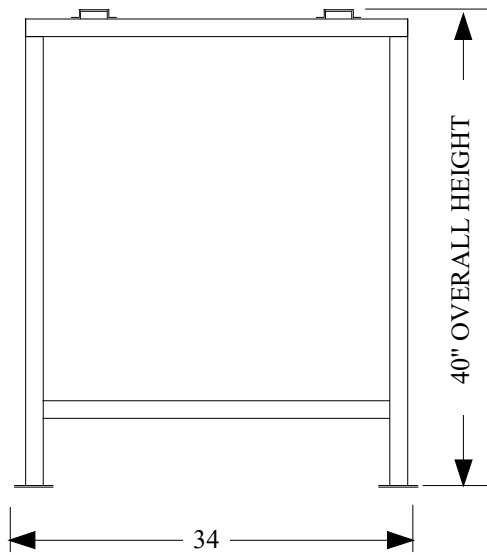
- 1) ALL DIMENSIONS SHOWN ARE APPROXIMATE.
- 2) ENCLOSURE: INDOOR NEMA TYPE 1, COLOR BLACK.
- 3) DRAWING SHOWN WITH OPTIONAL SEISMIC.
- 4) RATING: FROM 500 W. TO 2700 W.
- 5) WEIGHT: FROM 265 LBS UP TO 760 LBS (WITH BATTERIES).

ECONOSINE 2 INVERTER TECHNICAL DRAWINGS		SHT 1 OF 1	
 CRUCIAL POWER PRODUCTS SUBJECT TO CHANGE WITHOUT NOTICE			
DRAWN : SHERRIS.	1/25/23	405-TD-011	REV A
APPVD : H.N	1/25/23		

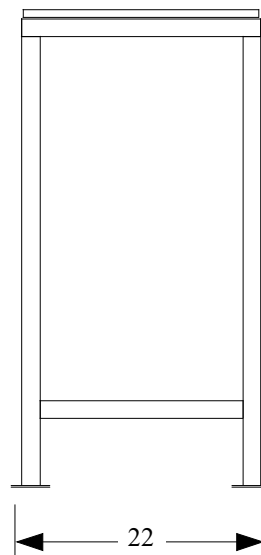
# ECONOSINE 2, OPTIONAL 40" " HIGH STAND (STACKABLE)



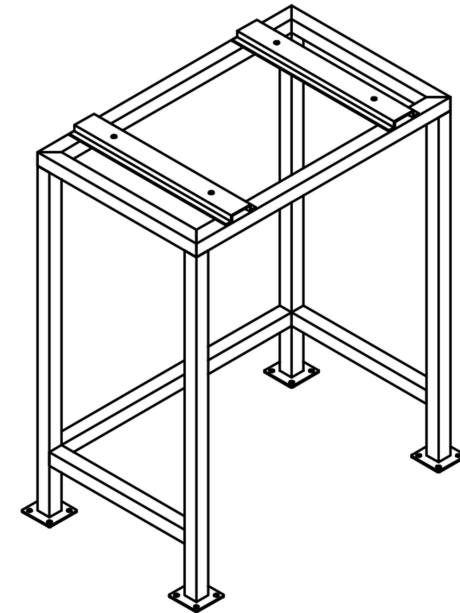
**TOP VIEW**



**FRONT VIEW**




**SIDE VIEW**



**ISOMETRIC DRAWING**

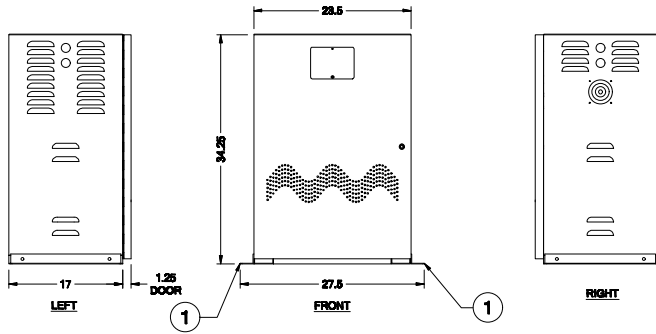
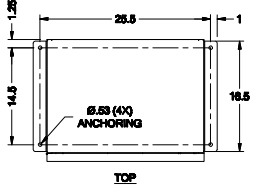
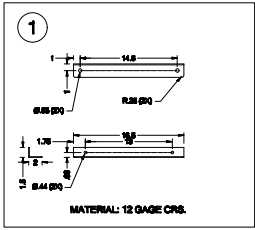
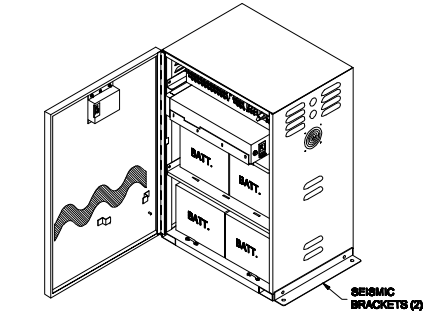
**NOTES:**

- 1) FINISH: POWDER COAT BLACK FINE TEXTURE.
- 2) MOUNTING HARDWARE TO INSTALL UNIT TO STAND IS PROVIDED WITH THE KIT.
- 3) MOUNTING HARDWARE FOR STAND TO THE FLOOR TO BE SUPPLIED BY OTHERS, (CONSULT APPLICABLE CODES, FOR HARDWARE TYPE AND LENGTH BASED ON TYPE OF FLOOR).

<b>ECONOSINE 2 TECHNICAL DRAWINGS</b>		SHT 1 OF 1	
 <b>CRUCIAL POWER PRODUCTS</b>			
SUBJECT TO CHANGE WITHOUT NOTICE			
DRAWN : SHERRIS.	1/25/23	<b>405-TD-012</b>	REV
APPVD : H.N	1/25/23		A

PROPRIETARY  
CONFIDENTIAL INFORMATION

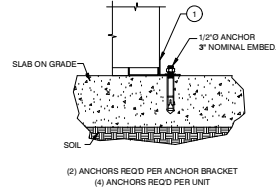
REV		DESCRIPTION		DATE	APPROVED
X1	NA	PRELIMINARY			



- NOTES: (UNLESS OTHERWISE SPECIFIED)
- 1) ALL DIMENSIONS SHOWN ARE APPROXIMATE.
  - 2) ENCLOSURE: INDOOR NEMA TYPE 1, COLOR BLACK.
  - 3) DRAWING SHOWN WITH OPTIONAL SEISMIC.
  - 4) RATING: FROM 800 W. TO 2100 W.
  - 5) WEIGHT: FROM 285 LBS UP TO 780 LBS (WITH BATTERIES).

<small>UNLESS OTHERWISE SPECIFIED: DIMENSIONS AND UNITS: DIMENSIONS ARE IN INCHES DIMENSIONS IN PARENTHESES ARE IN MILLIMETERS</small>				<small>SCALE: 1/8" = 1'-0"</small>	
<small>DESIGNED BY</small> S.P.	<small>CHECKED BY</small> S.P.	<small>DATE</small> 01/25/24	<small>TITLE</small> INVERTER	<small>REV</small> X1	<small>NO.</small> 0001-278
<small>APPROVED BY</small> S.P.	<small>DATE</small> 01/25/24	<small>SCALE</small> 1/8" = 1'-0"	<small>REV. BY</small> S.P.	<small>REV</small> X1	<small>NO.</small> 0001-278

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE



- NOTES:
1. DESIGNED PER THE 2021 IBC / 2022 CBC / 2023 LABC.  
Fa = 1.2 & Sa = 1.82
  2. STORAGE CAPACITY: 780# MAX. WEIGHT.
  3. ANCHORS: HILTI KWIK BOLT T22.  
ICC # ESR-4266 W/ LABC SUPPLEMENT
  4. CONCRETE: 8" THICK & 2,800 PSI.
  5. SOIL BEARING PRESSURE: 600 PSF. (MIN. REQ'D)
  6. EVALUATION BASED ON NORTHRIDGE LOCATION (ONE OF THE HIGHEST LA FAULT AREAS) WITH THE FOLLOWING CALCULATION AS A TYPICAL EXAMPLE. (ASSUMED GROUND FLOOR INSTALLATION)

2 ANCHOR DETAIL

LOADS & DISTRIBUTION: MINI POWER WAVE

ANALYSIS BASED ON SECTION 23.3 OF THE ASCE 7-16 SPECIFICATION REFERENCED IN CHAPTER 16 OF THE 2021 IBC/2022 CBC/2023 LABC

Fp (13.3-31) = 0.4 x ap x Sps x Wp / (Rp x Ip)	0.234 x Wp	
Fp (13.3-32) = 1.6 x Sps x Ip x Wp	2.336 x Wp	SHALL NOT BE GREATER THAN
Fp (13.3-33) = 0.3 x Sps x Ip x Wp	0.438 x Wp	SHALL NOT BE LESS THAN

SITE CLASS = D  
 Fa = 1.2  
 Sa = 1.82  
 Sps = 1.66  
 Ip = 1.00  
 Rp = 2.5  
 ap = 1  
 ASCE 7-16 Table 13.5-1  
 ASCE 7-16 Table 13.5-1

Wp = 760 LB

0.7Fp = 0.7 \* 0.438 \* Wp  
 = 0.31 \* 760 LB  
 = 233 LB

OVERTURNING ANALYSIS:

CABINET HEIGHT, Hc = 34.0 IN  
 ANCHORS SPACING, D = 14.0 IN

Mot = Wnat \* Hc / 2  
 = 233 LB \* 34 IN \* 1/2  
 = 3,961 IN-LB

Mot = Wp \* D / 2  
 = 760 LB \* 14 IN / 2  
 = 5,320 IN-LB

Puallift = (Mot - 0.6 \* Mot) / D  
 = (3,961 IN-LB - 0.6 \* 3,961 IN-LB) / 14 IN  
 = 55 LB <= UPLIFT

ANCHORS ALLOWABLE CAPACITY PER ICC REPORT AND ACI 318-14 CHAPTER 17

PULLOUT: 1170 LB T<sub>nominal</sub> / 100  
 SHEAR: 2390 LB V<sub>nominal</sub> / 100

COMBINED STRESS = (55 LB / 2340 LB) + (233 LB / 9560 LB)  
 = 0.05 < 1.2 OK

USE 1/2"Ø x 3" MIN. EMBED. HILTI KB-T22 (ICC ESR-4266) OR APPROVED EQUAL (4) PER CABINET

POWER COMPANY  
 NORTHBRIDGE, CA 91324

REV	DATE	BY	DESCRIPTION

DRAWN BY: M.V. J.T.C.  
 DATE: 01/25/24  
 ADD REV BY:  
 REV DATE:  
 TYPE:  
 SCALE: N.T.S.  
 APPROV BY: SALE FAREY



DESCRIPTION:  
 CABINET DETAILS

DRAWING NUMBER:  
 24-0186-E

CALCULATIONS