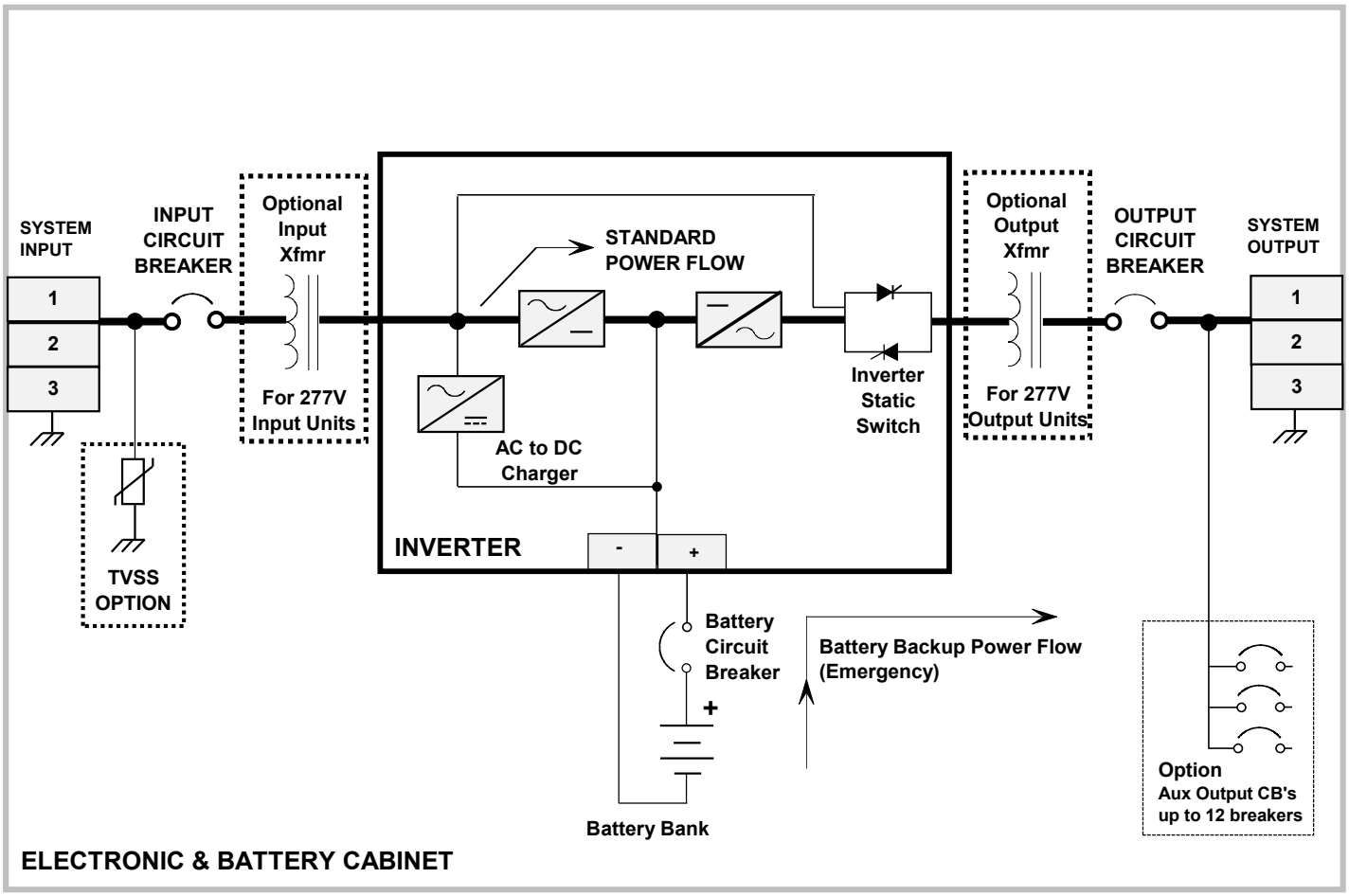
MINI POWER LIGHTING INVERTER
SINGLE LINE DIAGRAM

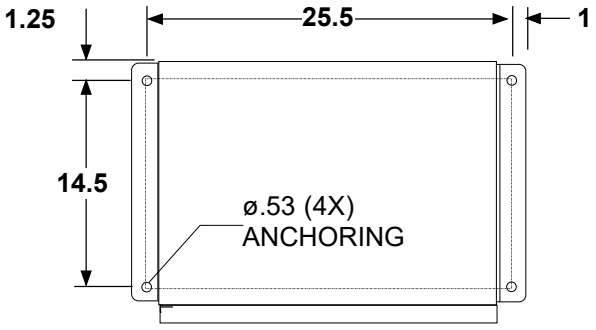


NOTES:

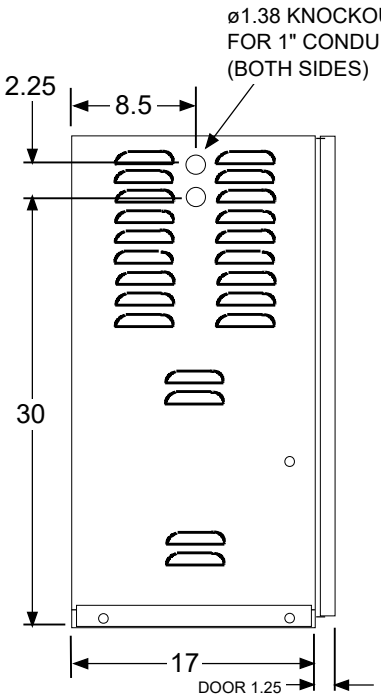
1. Dotted blocks are optional features.

OnLine POWER		MINI POWER WAVE SINGLE LINE DIAGRAM	
SDR : SHERRI S.	01/25/23	DWG NO.: 105-TD-010	REV.: A
CHKD : M.T.	01/25/23		SHT 1 OF 1
APPVD : HN	01/25/23	SUBJECT TO CHANGE WITHOUT NOTICE	

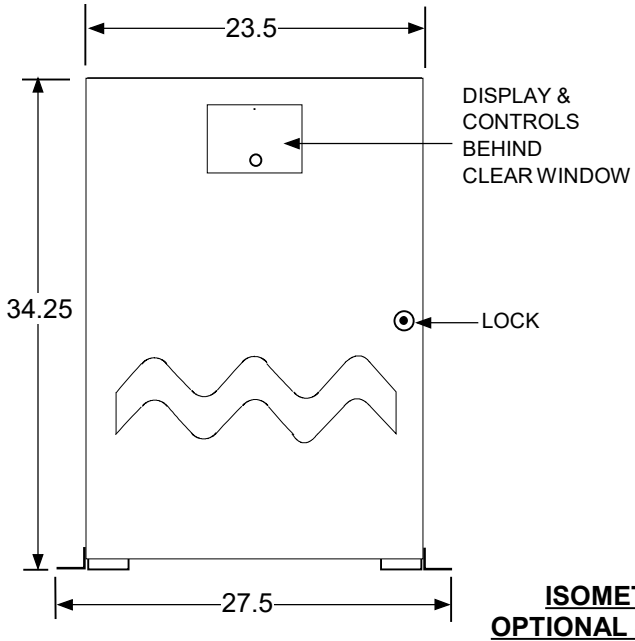
MINI POWER WAVE CENTRAL LIGHTING INVERTER



TOP VIEW

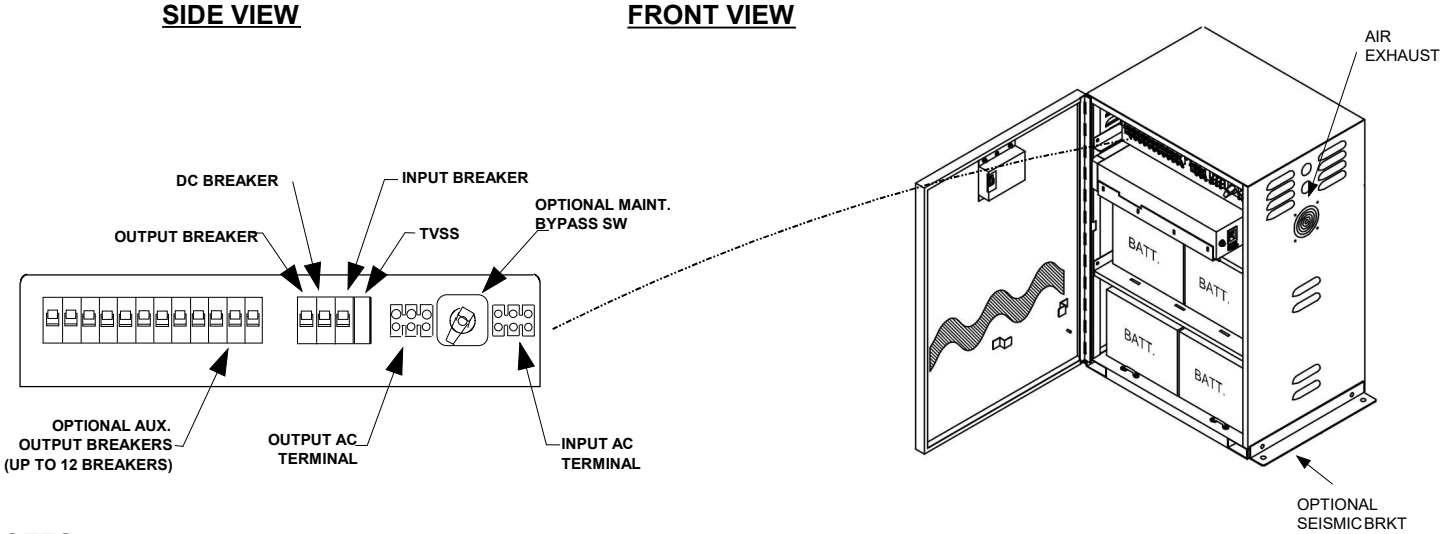


SIDE VIEW



FRONT VIEW

ISOMETRIC VIEW WITH OPTIONAL SEISMIC MOUNTING

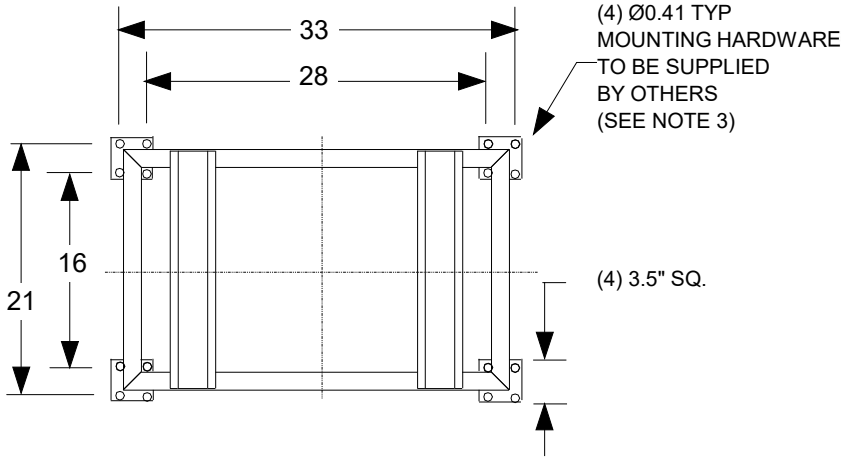


NOTES:

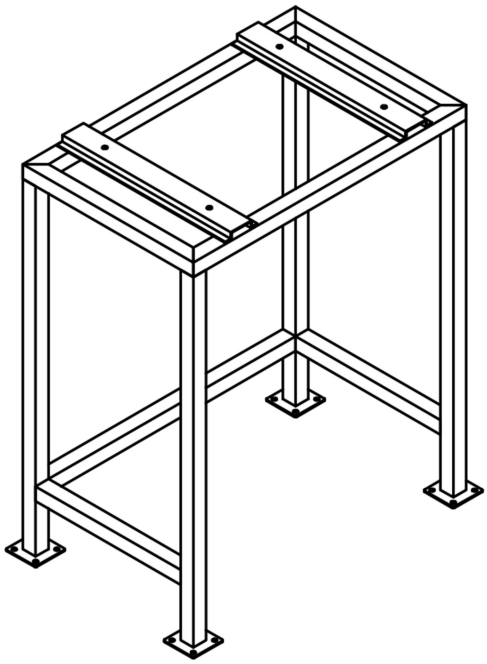
1) ALL DIMENSIONS SHOWN ARE APPROXIMATE.
2) ENCLOSURE: INDOOR NEMA TYPE 1, COLOR BLACK.
3) DRAWING SHOWN WITH OPTIONAL SEISMIC.
4) RATING: FROM 500 W. TO 2700 W.
5) WEIGHT: FROM 265 LBS UP TO 760 LBS (WITH BATTERIES).

OnLine POWER		MINI POWER WAVE CENTRAL LIGHTING INVERTER	
SDR : SHERRI S.	01/25/23	DWG NO.: 105-TD-011	REV.: A
CHKD : M.T.	01/25/23		SHT 1 OF 1
APPVD : HN	01/25/23	SUBJECT TO CHANGE WITHOUT NOTICE	

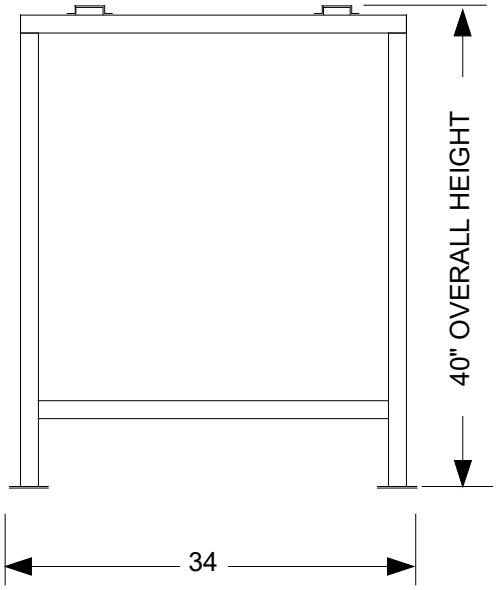
MINI POWER WAVE OPTIONAL 40" HIGH STAND (STACKABLE)



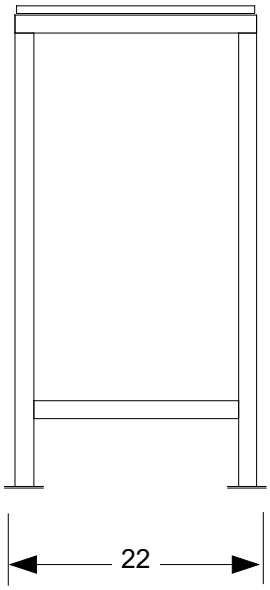
TOP VIEW



ISOMETRIC VIEW



FRONT VIEW



SIDE VIEW

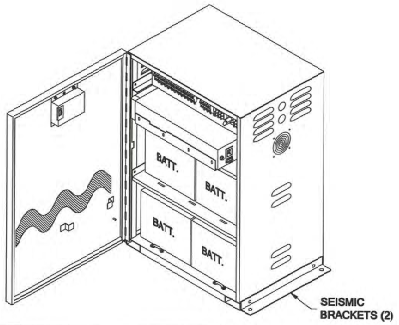
NOTES:

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).
4) DIMENSIONS ARE IN INCHES.

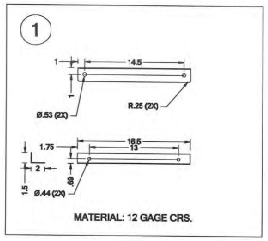
Line POWER		MINI POWER WAVE INVERTER TECHNICAL DRAWING	
SDR : SHERRI S.	01/25/23	DWG NO.: 105-TD-012	REV.: A
CHKD : M.T.	01/25/23		SHT 1 OF 1
APPVD : HN	01/25/23	SUBJECT TO CHANGE WITHOUT NOTICE	

ON-LINE POWER PROPRIETARY CONFIDENTIAL INFORMATION

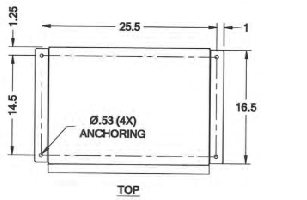
REVISION				
REV	ECO	DESCRIPTION	DATE	APPROVED
X1	N/A	PRELIMINARY	5/29/13	S.S.



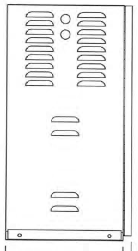
SEISMIC BRACKETS (2)



MATERIAL: 12 GAGE CRS.

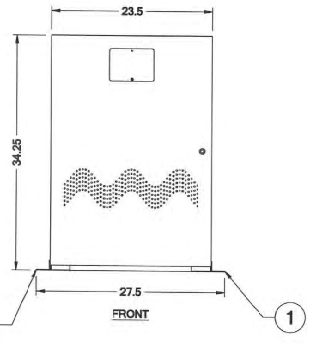


TOP



LEFT

1.25 DOOR



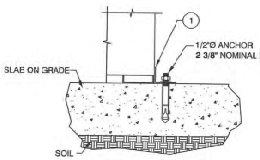
FRONT

RIGHT

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 500 W. TO 2100 W.
5) WEIGHT: FROM 265 LBS UP TO 760 LBS (WITH BATTERIES).

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS FRACTIONS ANGLES .XX ± .03 ± 1/64 ± 1/2° .XXX ± .010			CorEline POWER COMMERCE, CA	
			TITLE	MINI POWER WAVE
DRWN:	S.S.	5/29/13	SIZE B	DWG 6001-278 REV X1
CHKD:	SHERRILS.	5/29/13		
APPVD:	SS	5/29/13	SCALE:	EST. WT: SHT 1 OF 2
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE				



(2) ANCHORS REQ'D PER ANCHOR BRACKET
(4) ANCHORS REQ'D PER UNIT

2 ANCHOR DETAIL

NOTES:
1. DESIGNED PER THE 2018 IBC / 2019 CBC / 2020 LABC.
   Fa = 1.0 & Ss = 2.2
2. STORAGE CAPACITY: **760#** MAX. WEIGHT.
3. ANCHORS: HILTI KWIK BOLT TZ,
   ICC #**ESR-1917** W/ LABC SUPPLEMENT
4. CONCRETE: 5" THICK x **2,500** PSI.
5. SOIL BEARING PRESSURE: **500** PSF. (MIN. REQ'D).
6. EVALUATION BASED ON NORTHRIDGE LOCATION
   (ONE OF THE HIGHEST "A FAULT AREAS)
   WITH THE FOLLOWING CALCULATION AS A TYPICAL EXAMPLE.
   (ASSUMED GROUND FLOOR INSTALLATION)

LOADS & DISTRIBUTION: MINI POWER WAVE

ANALYSIS BASED ON SECTION 13.3 OF THE ASCE 7-16 SPECIFICATION
REFERENCED IN CHAPTER 16 OF THE 2018 IBC/2019 CBC/2020 LABC

Fp (13.3-1)= $0.4 \times a_p \times S_{DS} \times W_p / [R_p / I_p]$ = 0.234 x Wp
Fp (13.3-2)= $1.6 \times S_{DS} \times I_p \times W_p$ = 2.336 x Wp SHALL NOT BE GREATER THAN
Fp (13.3-3)= $0.3 \times S_{DS} \times I_p \times W_p$ = 0.438 x Wp SHALL NOT BE LESS THAN

SITE CLASS = D
Fa = 1.2
Ss = 1.83
S_{DS} = 1.46
Ip = 1.00
Rp = 2.5 ASCE 7-16 Table 13.5-1
ap = 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, Ht = 34.0 IN
ANCHORS SPACING, D = 14.0 IN

Mot = Vtota *(1/2 Ht)
= 233 LB * 34 IN * 1/2
= 3,961 IN-LB

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

Puplift = (Mot - 0.6*Mst)/D
= (3961 IN-LB - 0.6 * 5320 IN-LB)/14 IN
= 55 LB <= UPLIFT

ANCHORS
ALLOWABLE CAPACITY PER ICC REPORT AND ACI 318-14 CHAPTER 17
PULLOUT : 830 LB $T_{allowable, ASD}$
SHEAR : 900 LB $V_{allowable, ASD}$

COMBINED STRESS = (55 LB/1660 LB) + (233 LB/3600 LB]
= 0.10 < 1.2 OK

USE 5/2"Ø x 2-3/8" MIN. EMBED. HILTI KE-TZ (ICC ESR-1917) OR APPROVED EQUAL
(4) PER CABINET

CALCULATIONS

ADDRESS:
POWER COMPANY
9201 TAMPA AVE.
NORTHRIDGE, CA 91324

REV.	DATE	BY	DESCRIPTION
△	△	△	△

SEISMIC
EST. 1986
SEISMIC ENGINEERING, INC.
1130 E. Cypress St.
Covina, California 91724
Tel.(909)595-9589

DRAWN BY:	M.V. / T.C.
DATE:	03/13/20
LAST REV. BY:	
REV. DATE:	
TYPE:	
SCALE:	N.T.S.
APRVD BY:	SAL E. FATEEN

REGISTERED PROFESSIONAL ENGINEER
SAL E. FATEEN
No. 23989
CIVIL
STATE OF CALIFORNIA
EXPIRES 12-31-2023

JAN 2022

DESCRIPTION:
CABINET DETAILS

DRAWING NUMBER:
20-0491-E