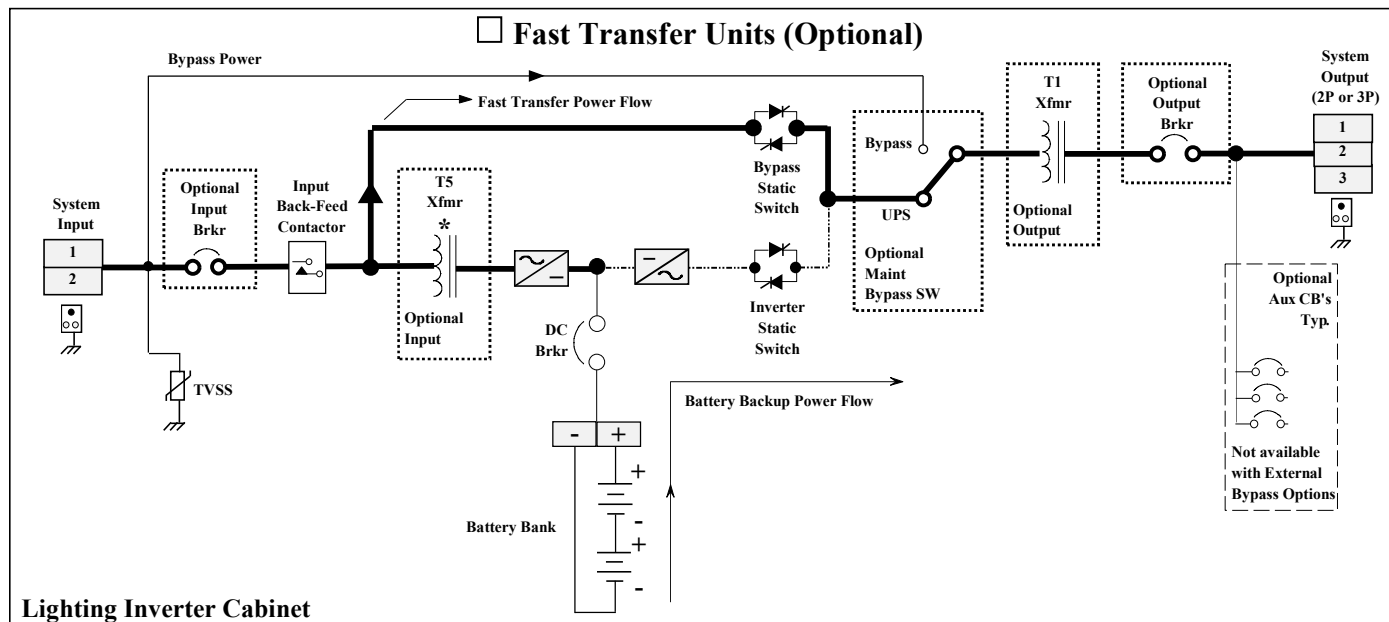
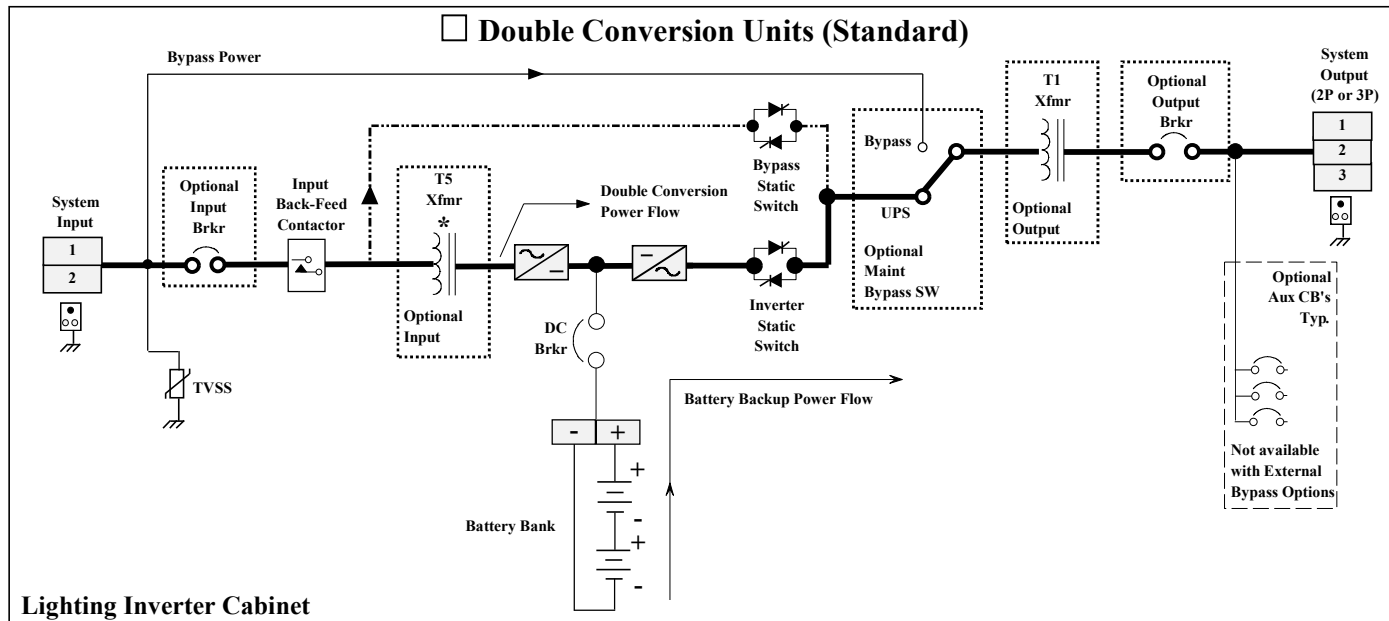



# 1 PHASE LIGHTING INVERTER TYPICAL SINGLE LINE DIAGRAM

## INDOOR & OUTDOOR UNITS

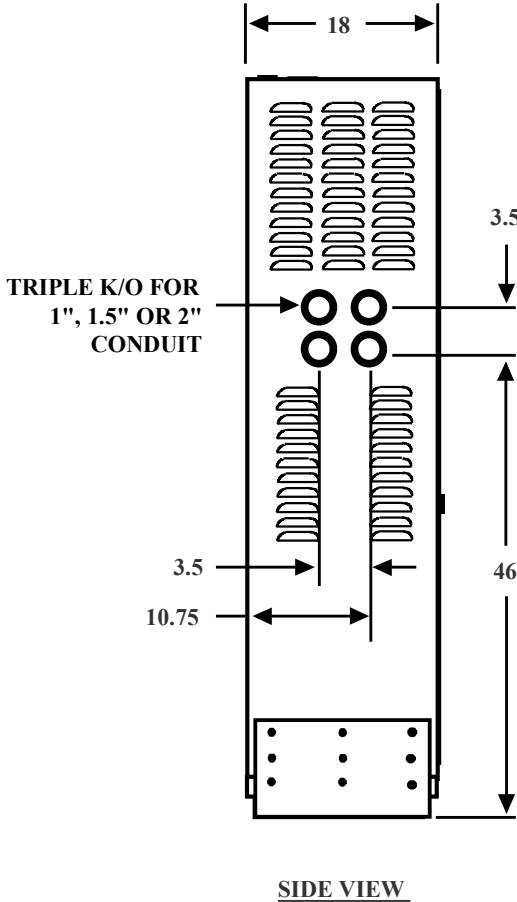
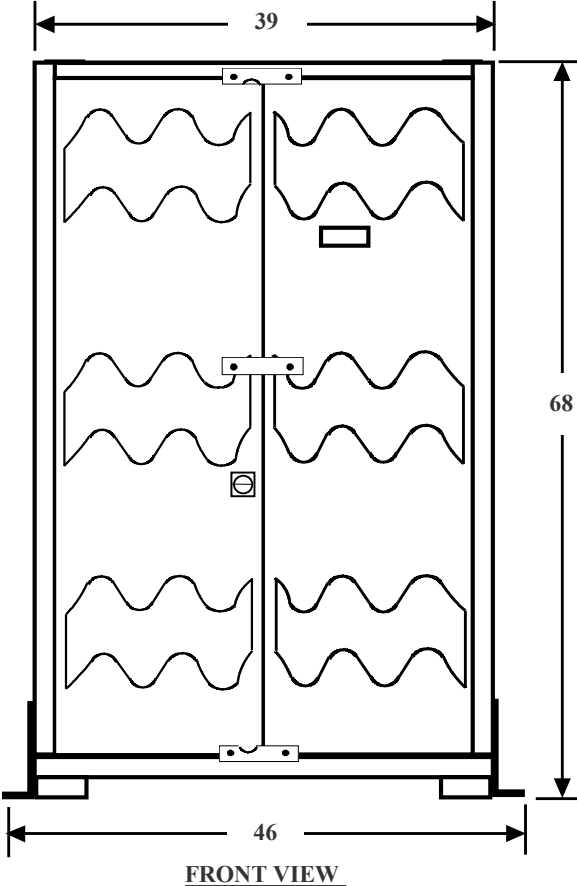
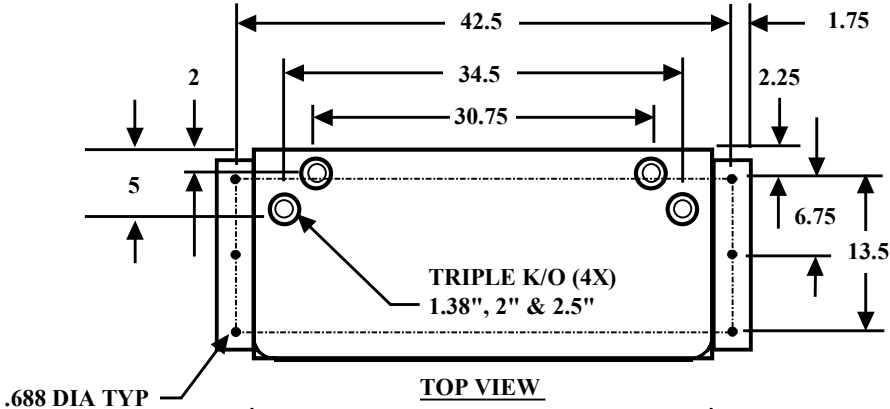


### NOTES:

- \*Static Bypass and Manual Bypass:  
will be powered from the transformer for different input and output voltage configurations.
- Dotted blocks are optional features.


TYPICAL 1-PH LIGHTING INVERTER SINGLE LINE DIAGRAM		SHT 1 OF 1
 <b>CRUCIAL POWER PRODUCTS</b> SUBJECT TO CHANGE WITHOUT NOTICE		
DRAWN : SHERRIS.	12/01/22	410-TD-010
APPVD : H.N	12/01/22	
		REV B

**3 KW THRU 8 KW INVERTER WITH 90 MIN BACKUP  
SHAKER TABLE TEST CERTIFIED BY (HCAI)**

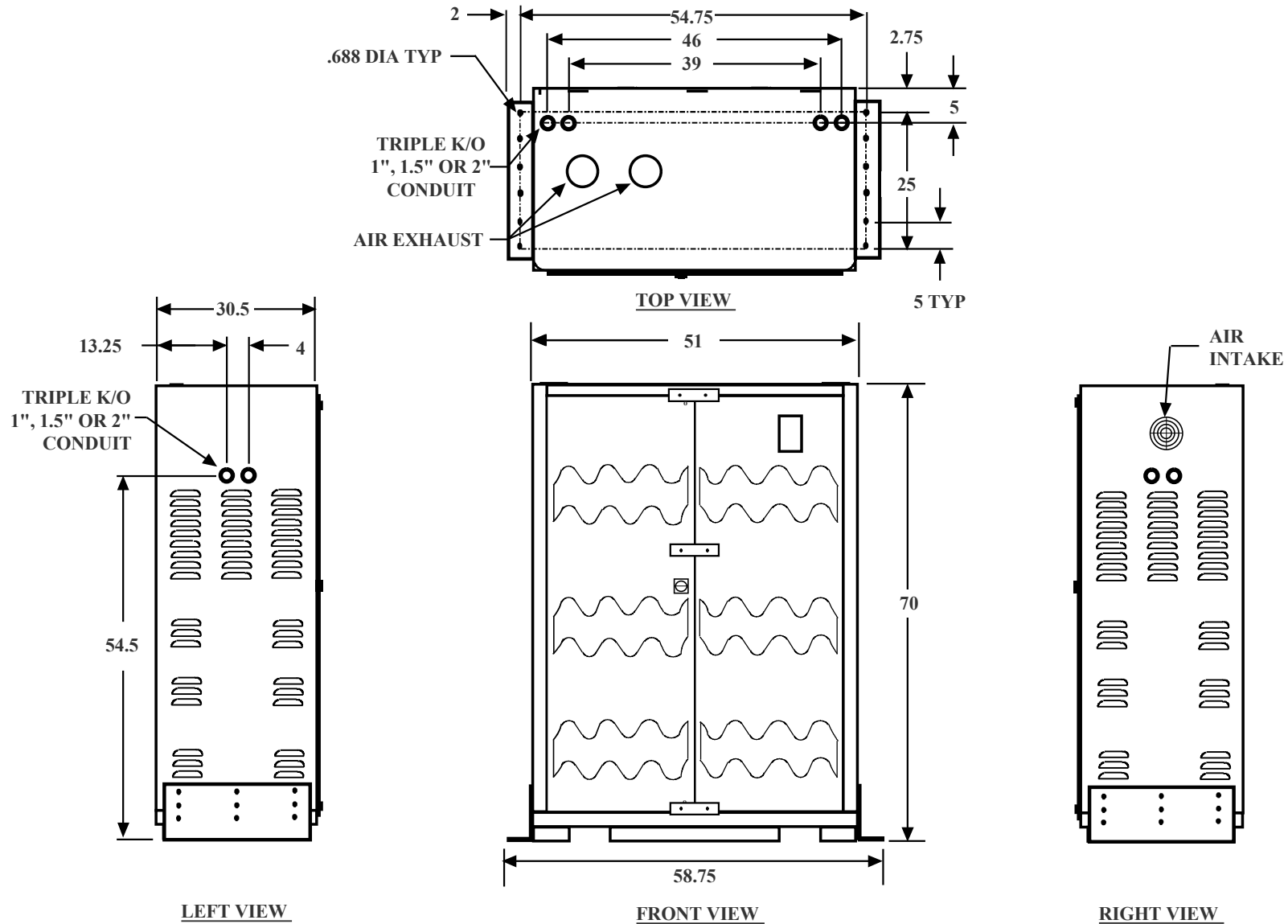


**NOTES:**

1. ALL DIMENSIONS ARE IN INCHES.
2. 7.5KW CAN BE IN 39" OR 51" WIDE CABINET DEPENDING ON THE BATTERY TYPE.

<b>1-PHASE UPS SHAKE TABLE TESTED</b> <b>TECHNICAL DRAWINGS</b>			<b>SHT</b> <b>1 OF 1</b>
 <b>CRUCIAL POWER PRODUCTS</b> SUBJECT TO CHANGE WITHOUT NOTICE			
DRAWN : SHERRIS.	12/07/22	410-SV-TD-011	REV
APPVD : H.N	12/07/22		A

**10KW THRU 17KW INVERTER WITH 90 MIN. BACKUP  
STANDARD VRLA BATTERY  
SHAKER TABLE TEST CERTIFIED BY (HCAI)**



**NOTES:**

1. ALL DIMENSIONS ARE IN INCHES.
2. 7.5KW CAN BE IN 39" OR 51" WIDE CABINET DEPENDING ON THE BATTERY TYPE.

**1-PHASE UPS SHAKE TABLE TESTED  
TECHNICAL DRAWINGS**

SHT  
1 OF 1



**CRUCIAL POWER PRODUCTS**

SUBJECT TO CHANGE WITHOUT NOTICE

DRAWN : SHERRIS.

12/07/22

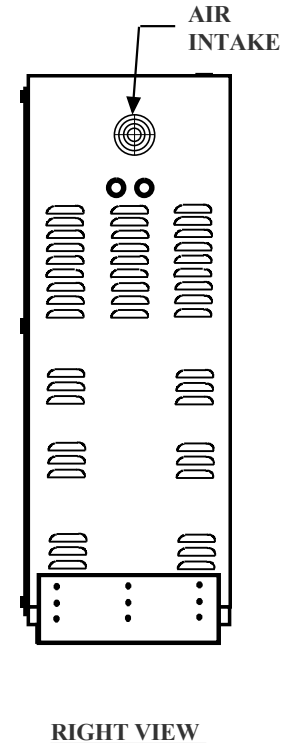
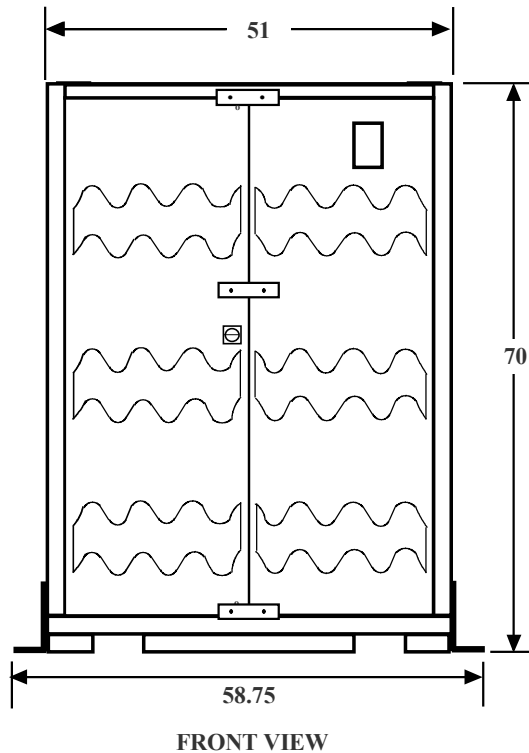
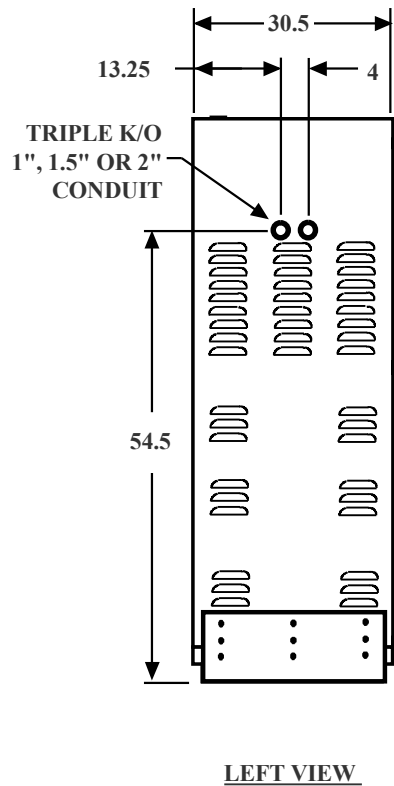
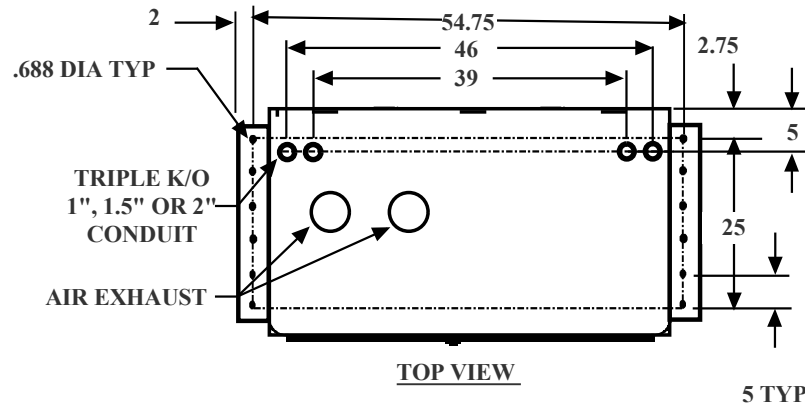
APPVD : H.N

12/07/22

410-SV-TD-012


REV  
A

**3 KW THRU 17 KW INVERTER WITH 90 MIN. BACKUP  
LONG LIFE BATTERY  
SHAKER TABLE TEST CERTIFIED BY (HCAI)**



**NOTES:**

1. ALL DIMENSIONS ARE IN INCHES.
2. 7.5KW CAN BE IN 39" OR 51" WIDE CABINET DEPENDING ON THE BATTERY TYPE.
3. 14KW THRU 17KW HAS 2 CABINETS, INVERTER CABINET & BATTERY CABINET.

1-PHASE UPS SHAKE TABLE TESTED TECHNICAL DRAWINGS			SHT 1 OF 1
 <b>CRUCIAL POWER PRODUCTS</b> SUBJECT TO CHANGE WITHOUT NOTICE			
DRAWN : SHERRIS.	12/07/22	410-SV-TD-013	REV A
APPVD : H.N	12/07/22		

# REMOTE STATUS PANEL

**SIDE  
MOUNT  
PROVISION**

**BACK  
MOUNT  
PROVISION**

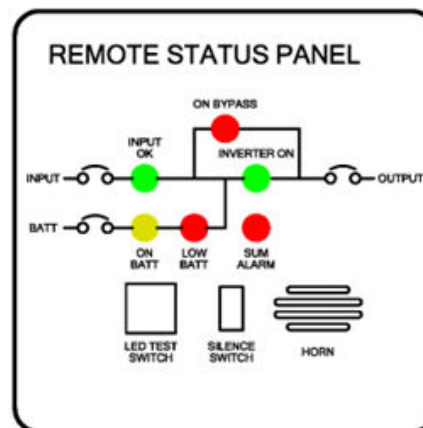


**USE  
BUMPER  
FOR  
CONSOLE  
INSTALL**

**TO UPS P100 TERMINAL  
BLOCK  
SEE INSTALLATION  
INSTRUCTION SHIPPED  
WITH THE ASSEMBLY**

## Remote Status Panel displays the following:

<b>INPUT OK:</b>	Input power is within acceptable range
<b>INVERTER ON:</b>	Inverter is on
<b>ON BYPASS:</b>	Unit is on Bypass Mode
<b>ON BATT:</b>	Unit is running from Battery
<b>LOW BATT:</b>	Battery voltage is at low voltage before shutdown
<b>SUM ALARM:</b>	Unit is on critical alarm such as: Over temperature, DC OV/UV
<b>HORN:</b>	Audible warning for alarm condition
<b>SILENCE WATCH:</b>	Silences the audible warning
<b>LED TEST:</b>	Tests the LED's by push in



### NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. 7.5KW CAN BE IN 39" OR 51" WIDE CABINET DEPENDING ON THE BATTERY TYPE.

**REMOTE STATUS PANEL ASSEMBLY**

SHT  
1 OF 1



**Crucial Power Products**

SUBJECT TO CHANGE WITHOUT NOTICE

DRAWN : M.TANG

12/07/22

APPVD : H.N

12/07/22

410-SV-TD-014


REV  
A

## INDOOR & OUTDOOR UNITS



### SELECTION CHART FOR SINGLE PHASE UPS

- 1) SWITCH CONTACTS ARE SINGLE PHASE L-NEUTRAL "MAKE BEFORE-BREAK".
- 2) CONTACTS MARKED "UPS" ARE CLOSED IN THE "UPS" POSITION.
- 3) CONTACTS MARKED "BYPASS" ARE CLOSED IN THE "BYPASS" POSITION.
- 4) CONTACTS MARKED "SBS" ARE CLOSED IN THE "SBS" POSITION.
- 5) WRAP AROUND BY-PASS SWITCH SHOULD BE USED WITH SAME INPUT/OUTPUT VOLTAGE
- 6) WRAP AROUND BY-PASS SWITCH CAN ONLY BE USED WITHOUT  
ANY BUILT IN SECONDARY DISTRIBUTION CIRCUIT BREAKER IN UPS.

1-PHASE UPS, WAVE RIDER 1 TECHNICAL DRAWINGS			SHT 1 OF 1
 <b>CRUCIAL POWER PRODUCTS</b> SUBJECT TO CHANGE WITHOUT NOTICE			
DRAWN : SHERRIS.	12/01/22	410-TD-015	REV
APPVD : H.N	12/01/22		A



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION

APPLICATION FOR HCAI SPECIAL SEISMIC  
CERTIFICATION PREAPPROVAL (OSP)

OFFICE USE ONLY

APPLICATION #: OSP-0499

HCAI Special Seismic Certification Preapproval (OSP)

Type: ☐ New ☒ Renewal

Manufacturer Information

Manufacturer: Crucial Power Products  
Manufacturer's Technical Representative: Sherri Shahsavari  
Mailing Address: 14000 S Broadway, Los Angeles, CA 90061  
Telephone: (323) 721-5017 Email: sherris@onlinepower.com

Product Information

Product Name: UPS and Batteries  
Product Type: Lighting Inverter Systems  
Product Model Number: See Attachment  
General Description: Single phase or three phase emergency lighting inverter with battery backup inside of a carbon steel electrical cabinet enclosure.  
Mounting Description: Rigid, Floor Mounted  
Tested Seismic Enhancements: Seismic enhancements made to the test units and/or modifications required to address anomalies during the tests shall be incorporated into the production units.

Applicant Information

Applicant Company Name: TRU Compliance, by Structural Integrity Associates, Inc.  
Contact Person: Galen Reid  
Mailing Address: 5215 Hellyer Ave. Suite 210, San Jose, CA 95138  
Telephone: (541) 604-7225 Email: greid@structint.com  
Title: Director, TRU Compliance







DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engineer Responsible for the Engineering and Test Report(s)

Company Name: STRUCTURAL INTEGRITY ASSOCIATES, INC.

Name: Andrew Coughlin California License Number: S6082

Mailing Address: 5215 Hellyer Ave, Suite 101, San Jose, CA 95138-1025

Telephone: (415) 635-8461 Email: acoughlin@structint.com

Certification Method

☐ GR-63-Core ☒ ICC-ES AC156 ☐ IEEE 344 ☐ IEEE 693 ☐ NEBS 3

☐ Other (Please Specify): \_\_\_\_\_

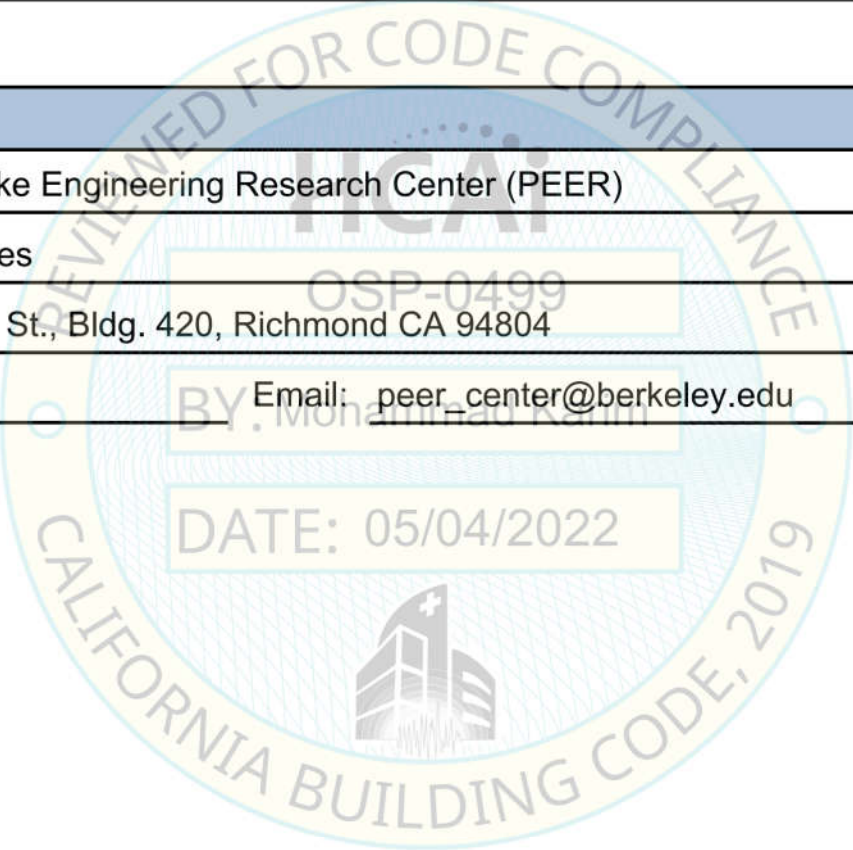
Testing Laboratory

Company Name: Pacific Earthquake Engineering Research Center (PEER)

Contact Person: Clement B Barthes

Mailing Address: 1301 South 46th St., Bldg. 420, Richmond CA 94804

Telephone: (510) 642-3437 Email: peer\_center@berkeley.edu







DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION  
FACILITIES DEVELOPMENT DIVISION

Seismic Parameters

Design Basis of Equipment or Components ( $F_p/W_p$ ) = 1.44 (SDS = 2.0g); 1.35 (SDS = 3.0g)

SDS (Design spectral response acceleration at short period, g) = 2.0 (z/h = 1.0); 3.0 (z/h = 0.0)

$a_p$  (Amplification factor) = 1.0

$R_p$  (Response modification factor) = 2.5

$\Omega_0$  (System overstrength factor) = 2.0

$I_p$  (Importance factor) = 1.5

z/h (Height ratio factor) = 1 and 0

Natural frequencies (Hz) = See Attachment

Overall dimensions and weight = See Attachment

HCAI Approval (For Office Use Only) - Approval Expires on 05/04/2028

Date: 5/4/2022

Name: Mohammad Karim

Special Seismic Certification Valid Up to: SDS (g) = See Above

Condition of Approval (if applicable):

OSP-0499

BY: Mohammad Karim

DATE: 05/04/2022

Title: Supervisor, Health Facilities

z/h = See Above

