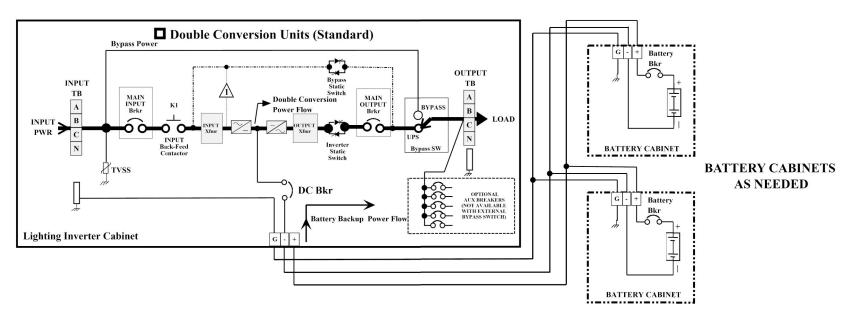
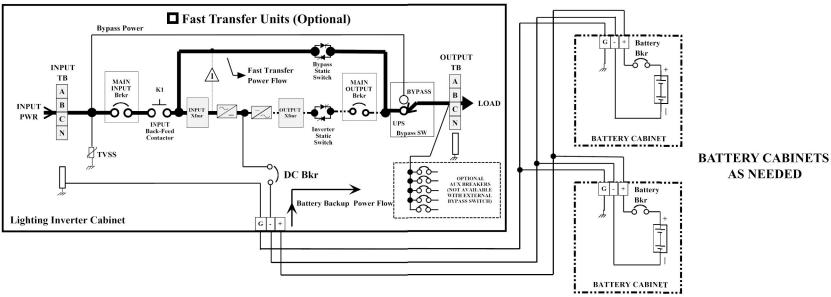
3 PHASE LIGHTING INVERTER TYPICAL SINGLE LINE DIAGRAM





NOTES:

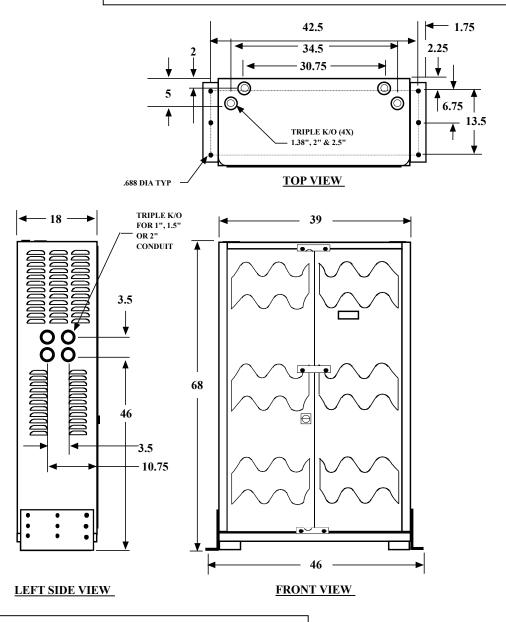
Optional Delta Input Power available using External Transformer transformer must be sized min 25% larger that UPS capacity.

2. Optional Wrap around Bypass Switch is available.

		SHT 1 OF 1	
CRUCIAL POWER PRODUCTS SUBJECT TO CHANGE WITHOUT NOTICE			
9/6/22	415-TD-010	REV	
	ER PRODUCTS SU	9/6/22 415-TD-010	

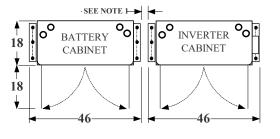
WAVE RIDER 3 INVERTER CABINET ELECTRONIC SHAKER TABLE TEST CERTIFIED BY (HCAI) **CABINET ONLY** (8 KW THRU 50 KW) TRIPLE K/O (4X) 1.38", 2" & 2.5" TOP VIEW AIR EXHAUST AIR INTAKE - 18 - $10.75 \cdot$ OUTPUT DC TB 3.5 CB 3.5 INPUT TB **BATT** 00 CB OUTPUT ***00** INPUT TRIPLE. K/O FOR CB 000000000000 1", 1.5" OR 2"CONDUIT FAN COVER **←** 3.25 42.38 ISOMETRIC VIEW SHOWN WITH HCAI-CERTIFIED BRACKETS FRONT VIEW RIGHT VIEW LEFT VIEW **NOTES:** 1) CONSTRUCTION: NEMA1 INDOOR. -1.752) SHAKE TABLE TESTED. WAVE RIDER 3 SHAKER TABLE TESTED SHT Ø.687 (6X) MTG HOLES 13.50 -INVERTER CABINET 1 OF 1 SUBJECT TO CHANGE WITHOUT NOTICE BOTTOM VIEW DRAWN: SHERRIS. 12/26/22 REV 415-SV-TD-011 Α APPVD: HN 12/26/22

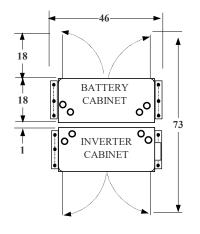
BATTERY CABINET (12KVA/8KW), <u>STANDARD VRLA BATTERY</u> SHAKER TABLE TEST CERTIFIED BY (HCAI)



RECOMMENDED SYSTEM LAYOUT

STANDARD VRLA BATTERY		
KVA/KW BATTERY CABINET CABINET QTY QTY 90 MIN. 120 MIN.		CABINET QTY
10KVA/8KW	1	1

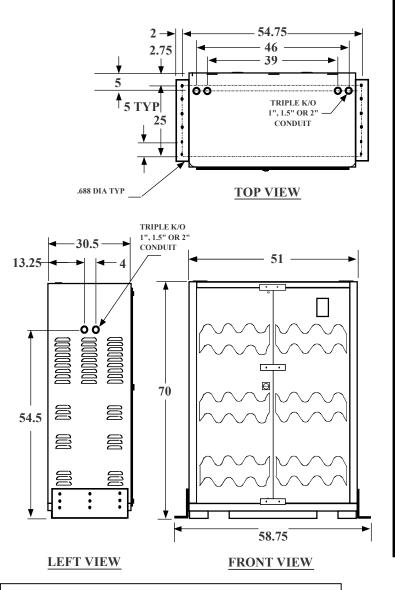




- 1) SPACING IS OPTIONAL NOT REQUIRED BY MFR.
- 2) CONSTRUCTION: NEMA1 INDOOR.
- 3) SHAKE TABLE TESTED.

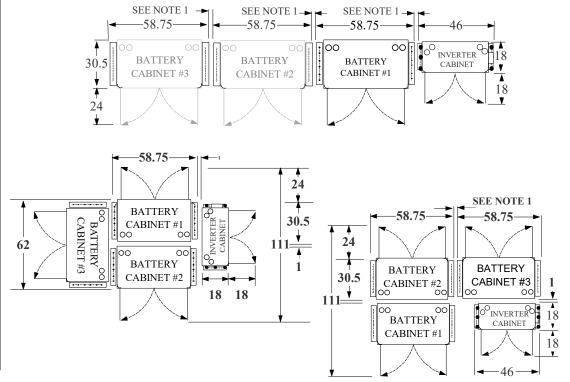
WAVE RIDER 3 SHAKER TABLE TESTED BATTERY CABINET (39" WIDE)			SHT 1 OF 1
CRUCIAL POWER PRODUCTS SUBJECT TO CHANGE WITHOUT NOTICE			
DRAWN: SHERRIS.	12/26/22	415-SV-TD-012	REV
APPVD: HN	12/26/22	413-5 V-1D-012	A

BATTERY CABINET (12 KW THRU 50 KW), <u>STANDARD VRLA BATTERY</u> SHAKER TABLE TEST CERTIFIED BY (HCAI)

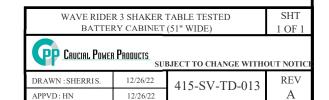


RECOMMENDED SYSTEM LAYOUT

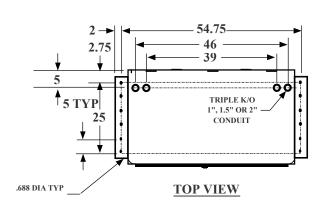
STANDARD VRLA BATTERY		
KVA/KW	BATTERY CABINET QTY 90 MIN.	BATTERY CABINET QTY 120 MIN.
15KVA/12KW	1	1
20KVA/16KW	1	1
25KVA/20KW	1	1
30KVA/24KW	1	2
40KVA/32KW	2	2
50KVA/40KW	2	2
50KW	2	3

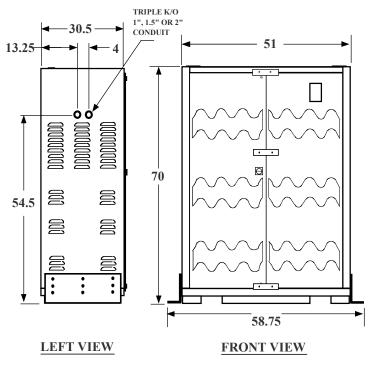


- 1) SPACING IS OPTIONAL NOT REQUIRED BY MFR.
- 2) CONSTRUCTION: NEMA1 INDOOR.
- 3) SHAKE TABLE TESTED.



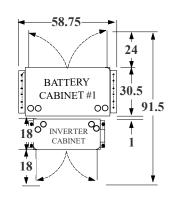
BATTERY CABINET (8 KW THRU 50 KW), LONG LIFE BATTERY SHAKER TABLE TEST CERTIFIED BY (HCAI)

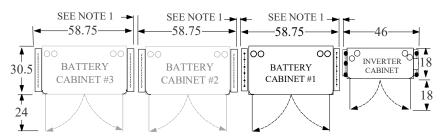


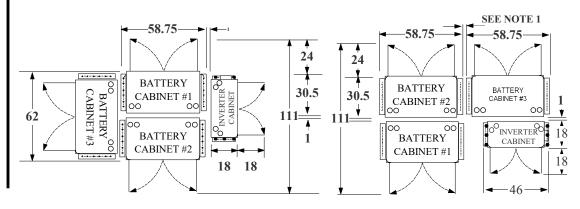


RECOMMENDED SYSTEM LAYOUT

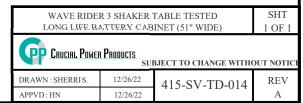
LONG LIFE BATTERY			
KVA/KW	BATTERY CABINET QTY 90 MIN.	BATTERY CABINET QTY 120 MIN.	
10KVA/8KW	1	1	
15KVA/12KW	1	1	
20KVA/16KW	1	1	
25KVA/20KW	1	1	
30KVA/24KW	1	2	
40KVA/32KW	2	2	
50KVA/40KW	2	3	
50KW	3	3	



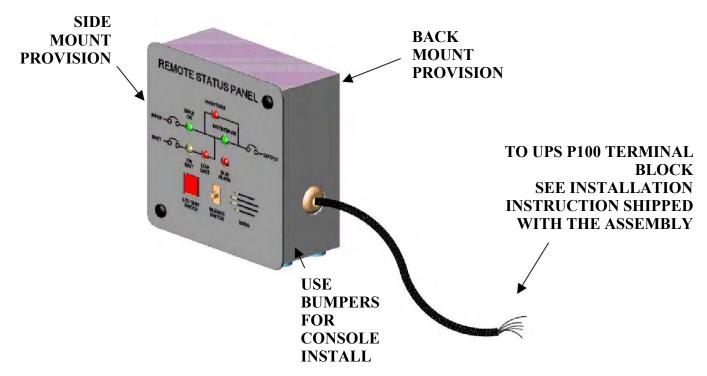




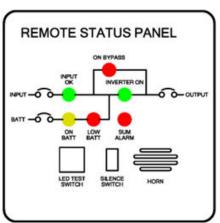
- 1) SPACING IS OPTIONAL NOT REQUIRED BY MFR.
- 2) CONSTRUCTION: NEMA1 INDOOR.
- 3) SHAKE TABLE TESTED.



REMOTE STATUS PANEL



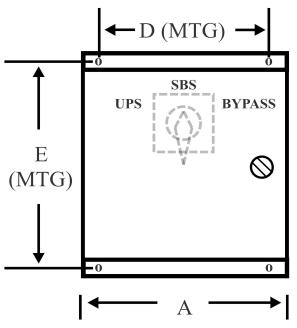
Remote Status Panel displays the following:		
INPUT OK:	Input power is within acceptable range	
INVERTER ON:	Inverter is on	
ON BYPASS:	Unit is on Bypass Mode	
ON BATT:	Unit is running from Battery	
LOW BATT:	Battery voltage is at low voltage before shutdown	
SUM ALARM:	Unit is on critical alarm such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



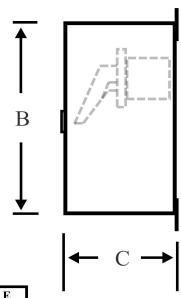
- 1. ALL DIMENSIONS ARE IN INCHES.
- 2. 7.5KW CAN BE IN 39" OR 51" WIDE CABINET DEPENDING ON THE BATTERY TYPE.

REMOTE STATUS PANEL ASSEMBLY			SHT 1 OF 1
CRUCIAL POWER PRODUCTS SUBJECT TO CHANGE WITHOUT NOTICE			
DRAWN : M.TANG	12/07/22	410-SV-TD-014	REV
APPVD: H.N	12/07/22	710-5 v -1D-014	A

MAKE BEFORE BREAK EXTERNAL WRAP AROUND BY-PASS SWITCH



	•					
RATING	VOLTAGE	DIM A	DIM B	DIM C	DIM D (MTG)	DIM E (MTG)
350 AMPS	600V	30	36	16	28.5	34.5
240 AMPS	600V	30	30	12	28.5	28.5
175 AMPS	600V	20	20	12	18.5	18.5
110 AMPS	600V	14	16	10	12	16.75
55 AMPS	600V	14	16	8	12	16.75



NOTES:

- 1) SWITCH CONTACTS ARE THREE 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 IS FOR SAME INPUT/OUTPUT VOLTAGES ONLY
- 6) WRAP AROUND BY-PASS SWITCH CAN ONLY BE USED WITHOUT ANY BUILT-IN SECONDARY DISTRIBUTION CIRCUIT BREAKERS IN UPS

	WAVE RIDE RAP AROU	ER 3 / 4 NDBYPASS SWITCH	SHT 1 OF 1
CRUCIAL POWER PRODUCTS. SUBJECT TO CHANGE WITHOUT NOTICE			
DRAWN : SS	10/31/22		REV
APPVD: HN	10/31/22	415-TD-016	Α

Technical Drawing: External Bypass Switch

HCAI Certification (pg. 1 of 3)



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

OTTICE USE ONLT
APPLICATION #: OSP-0499
r.com
· P
13
er with battery backup inside of a carbon steel
ts and/or modifications required to address ated into the production units.
Inc
Inc.





Title: Director, TRU Compliance

05/04/2022

HCAI Certification (pg. 2 of 3)



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION FACILITIES DEVELOPMENT DIVISION

California Licensed Structural Engine	er Responsible for the Engineering and Test Report(s)
Company Name: STRUCTURAL INTEGRIT	Y ASSOCIATES, INC.
Name: Andrew Coughlin	California License Number: S6082
Mailing Address: 5215 Hellyer Ave, Suite 10)1, San Jose, CA 95138-1025
Telephone: (415) 635-8461	Email: acoughlin@structint.com
Certification Method	
GR-63-Core X ICC-ES A	C156
Other (Please Specify):	
	FOR CODE CO
Testing Laboratory	ED MA
Company Name: Pacific Earthquake Engine	ering Research Center (PEER)
Contact Person: Clement B Barthes	
Mailing Address: 1301 South 46th St., Bldg	420, Richmond CA 94804
Telephone: (510) 642-3437	Ewail: peer_center@berkeley.edu
	DATE: 05/04/2022
E	





05/04/2022

HCAI Certification (pg. 3 of 3)



DEPARTMENT OF HEALTH CARE ACCESS AND INFORMATION **FACILITIES DEVELOPMENT DIVISION**

Seismic Parameters	
Design Basis of Equipment or Components	$(F_p/W_p) = 1.44 \text{ (SDS = 2.0g)}; 1.35 \text{ (SDS = 3.0g)}$
SDS (Design spectral response accele	eration at short period, g) = 2.0 (z/h = 1.0); 3.0 (z/h = 0.0)
a _P (Amplification factor) =	1.0
Rp (Response modification factor) =	2.5
Ω_0 (System overstrength factor) =	2.0
I _p (Importance factor) =	1.5

Natural frequencies (Hz) = Overall dimensions and weight = See Attachment

1 and 0

See Attachment

z/h (Height ratio factor) =

HCAI Approval (For Office Use Only) - Approval Expires on 05/04/2028 Date: 5/4/2022 Mohammad Karim Title: Name: Supervisor, Health Facilities Special Seismic Certification Valid Up to: Sps (g) = See Above z/h =See Above Condition of Approval (if applicable):

OSP-0499





05/04/2022

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