Optional Internal Maintenance Bypass

Static Bypass

Normal Power Flow

INVERTER STATIC SWITCH

Battery Back-Up Power Flow

* Static Bypass and Manual Bypass will be powered from the transformer for different input and output voltage configurations

NOTE:
Not available with External Bypass Options

SYSTEM INPUT TB1

OPTIONAL INPUT BACK-FEED CONTACTOR K1 T5 XFMR

OPTIONAL CB3

INVERTER

BYPASS STATIC SWITCH

 UPS

Bypass SW1

OPTIONAL Maint Bypass CB2

Bypass

Optional Output TB2 (2P or 3P)

AUX CB's TYP.

TVSS

Battery Bank CB1

CRUCIAL POWER PRODUCTS

TYPICAL: 1-PH LIGHTING INVERTER (DOUBLE CONVERSION) BLOCK DIAGRAM

DRAWN (SDR): S.S 1/2/19
APPVD: RV 1/2/19
411-TD-002A REV A
* Static Bypass and Manual Bypass will be powered from the transformer for different input and output voltage configurations.
INVERTER WITH
90 MIN. BACKUP

TOP VIEW

KNOCKOUT
FOR 1.5" OR 2"
CONDUIT

KNOCKOUT
FOR 3/4" OR 1"
CONDUIT

1" FOR
AIR FLOW

39

1" FOR
AIR FLOW

18

9

2.25

75

29.25

8

48

FRONT VIEW

SIDE VIEW

KNOCKOUT
FOR 3/4" OR 1"
CONDUIT

KNOCKOUT
FOR 1.5" OR 2"
CONDUIT

BOTTOM VIEW

Ø.69 (4X)
MTG HOLES

34.75

14

STD VRLA BATTERY

WAVE RIDER 1
2.1 KW - 3 KW

CRUCIAL POWER PRODUCTS

DRAWN: SHERRI 5/16/18
APPROVED: HENRY 5/16/18
REV A

410-TD-A
INVERTER WITH
90 MIN. BACKUP

DOUBLE K/O
FOR 3/4" OR 1"
CONDUIT

TOP VIEW

DOUBLE K/O
FOR 1.5" OR 2"
CONDUIT

1" FOR
AIR FLOW

39

1" FOR
AIR FLOW

18

3.5

3.5

10.75

46

34.75

BOTTOM VIEW

Ø.69 (4X)
MTG HOLES

68

CRUCIAL POWER PRODUCTS
WAVE RIDER 1
3.5, 5, 6 & 8 KW

DRAWN: SHERRI 5/16/18
APVVD: HENRY 5/16/18
REV A

STD VRLA BATTERY

SIDE VIEW

FRONT VIEW
INVERTER WITH 90 MIN BACKUP

TOP VIEW

LEFT VIEW

FRONT VIEW

RIGHT VIEW

BOTTOM VIEW

TRIPLE K/O 1", 1.5" & 2" CONDUIT

AIR EXHAUST

1" FOR AIR FLOW

AIR INTAKE

1" FOR AIR FLOW

STD VRLA BATTERY

CRUCIAL POWER PRODUCTS

WAVE RIDER 1
5.25, 7, 7.5, 8.75 THRU 17 KW

DRAWN: SHERRI 5/16/18
APPROVED: HENRY 5/16/18

410-TD-C REV A
INVERTER WITH SEISMIC BRACKET
90 MIN. BACKUP

TOP VIEW

KNOCKOUT FOR 1.5" OR 2"
CONDUIT

KNOCKOUT FOR 3/4" OR 1"
CONDUIT

SIDE VIEW

TRIPLE K/O FOR
1", 1.5" OR 2"
CONDUIT

BOTTOM VIEW

Ø.44 (4X)
ANCHORING

FRONT VIEW

46.75

42.75

14

CRUCIAL POWER PRODUCTS
WAVE RIDER 1
3.5, 5, 6 & 8 KW

DRAWN: SHERRI 5/16/18
APVVD: HENRY 5/16/18

REV A

STD VRLA BATTERY

3.5
INVERTER WITH
SEISMIC BRACKET
90 MIN. BACKUP

TOP VIEW

KNOCKOUT FOR 3/4" OR 1"
CONDUIT

KNOCKOUT FOR 1.5" OR 2"
CONDUIT

FRONT VIEW

KNOCKOUT FOR 3/4" OR 1"
CONDUIT

KNOCKOUT FOR 1.5" OR 2"
CONDUIT

BOTTOM VIEW

Ø.44 (4X)
ANCHORING

SIDE VIEW

STD VRLA
BATTERY

CRUCIAL POWER PRODUCTS
WAVE RIDER 1
2.1 KW - 3 KW

DRAWN: SHERRI 5/16/18
APPVD: HENRY 5/16/18
410-TD-H REV A
INVERTER WITH SEISMIC BRACKET 90 MIN BACKUP

TOP VIEW

LEFT VIEW

FRONT VIEW

RIGHT VIEW

BOTTOM VIEW

TRIPLE K/O 1", 1.5" & 2" CONDUIT

AIR EXHAUST

AIR INTAKE

1" FOR AIR FLOW

51

13.25

30.5

4

TRIPLE K/O 1", 1.5" & 2" CONDUIT

54.5

58.75

70

54.75

Ø.69 (6X) MTG HOLES

14KW THRU 17KW HAS 2 CABINETS:
ELECTRONICS ON 1ST CABINET
AND BATTERIES ON 2ND CABINET

Crucial Power Products

WAVE RIDER 1
2.1 KW THRU 17 KW

410-TD-I

DRAWN: SHERRI 9/11/9
APPROVED: HENRY 9/11/9
REV A
SINGLE PHASE
MAKE BEFORE BREAK
EXTERNAL WRAP AROUND
BY-PASS SWITCH

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>RATING</th>
<th>DIM A</th>
<th>DIM B</th>
<th>DIM C</th>
<th>DIM D (MTG)</th>
<th>DIM E (MTG)</th>
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</thead>
<tbody>
<tr>
<td>3000-044-2P</td>
<td>55 AMPS</td>
<td>14</td>
<td>16</td>
<td>6</td>
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<tr>
<td>3000-045-2P</td>
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<td>16.75</td>
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<tr>
<td>3000-046-2P</td>
<td>175 AMPS</td>
<td>20</td>
<td>20</td>
<td>12</td>
<td>18.5</td>
<td>18.5</td>
</tr>
</tbody>
</table>

NOTES:
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 BREAKERS IN UPS.