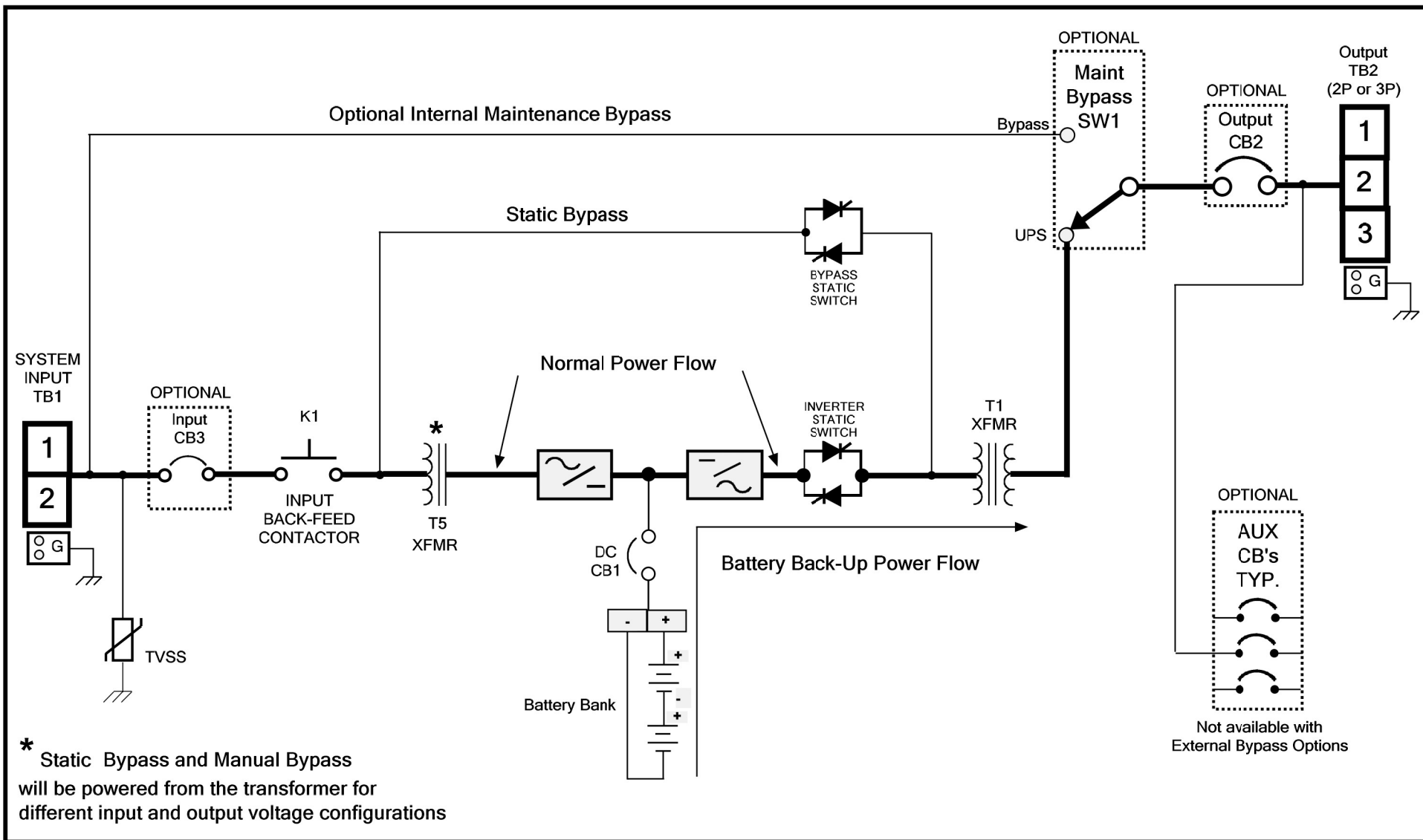


# DOUBLE CONVERSION

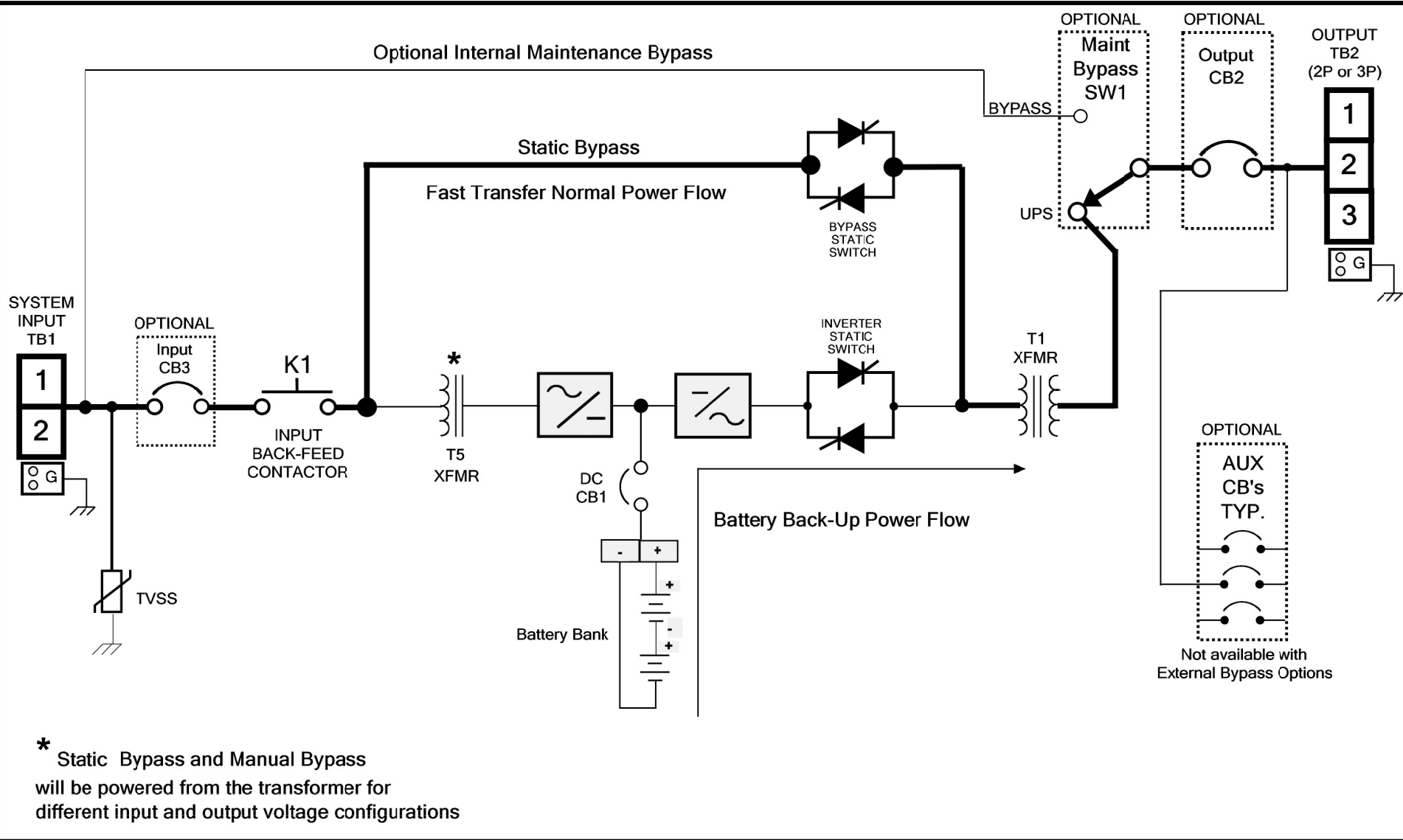


**CRUCIAL POWER PRODUCTS**

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

DRAWN (SDR): S.S	1/2/19	411-TD-002A	REV
APPVD: RV	1/2/19		A

# FAST TRANSFER

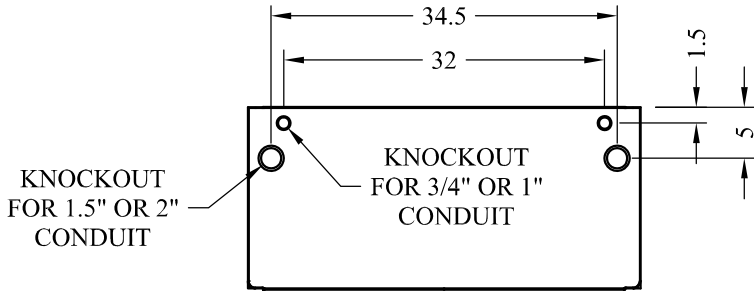
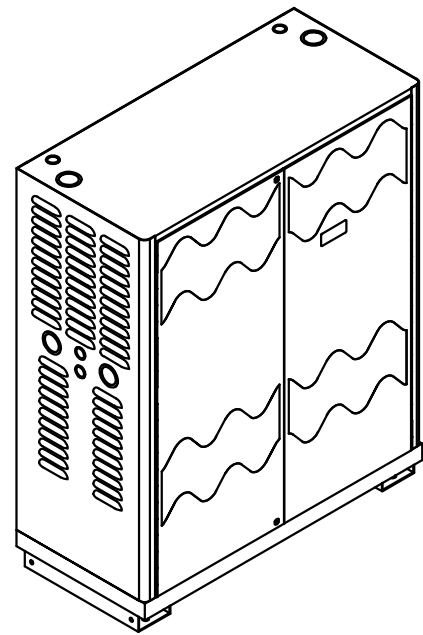


**CRUCIAL POWER PRODUCTS**

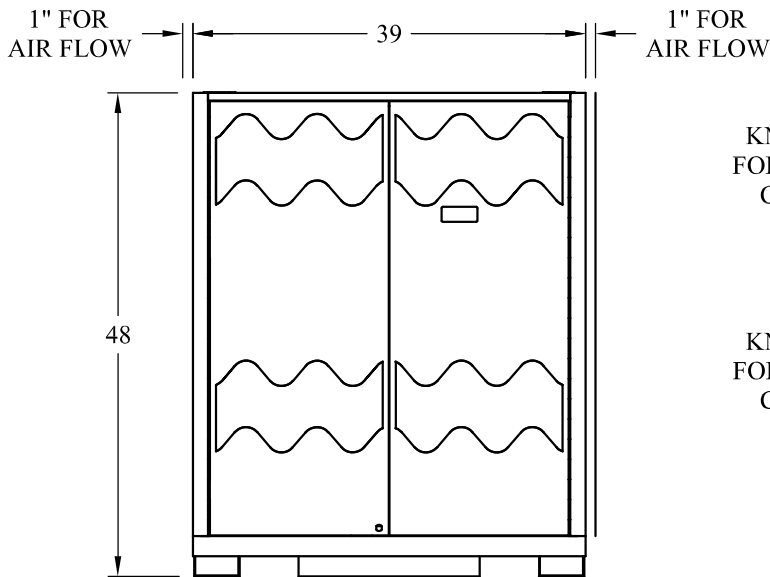
TYPICAL: 1-PH LIGHTING INVERTER  
(FAST TRANSFER) BLOCK DIAGRAM

DRAWN (SDR): S.S	1/2/19	411-TD-002B	REV A
APPVD: RV	1/2/19		

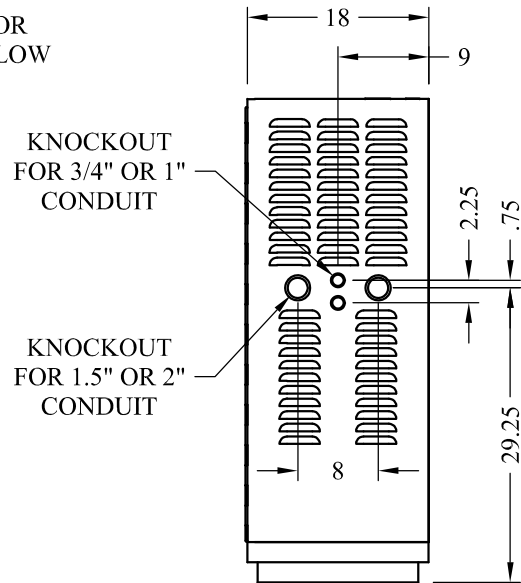
# INVERTER WITH 90 MIN. BACKUP



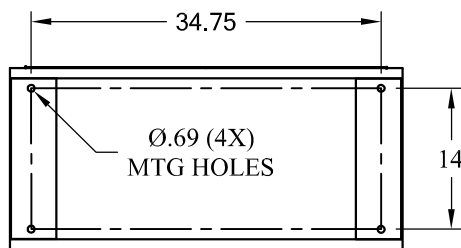
TOP VIEW



FRONT VIEW



SIDE VIEW



BOTTOM VIEW

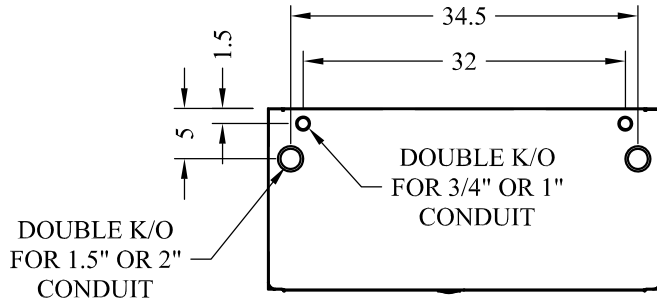
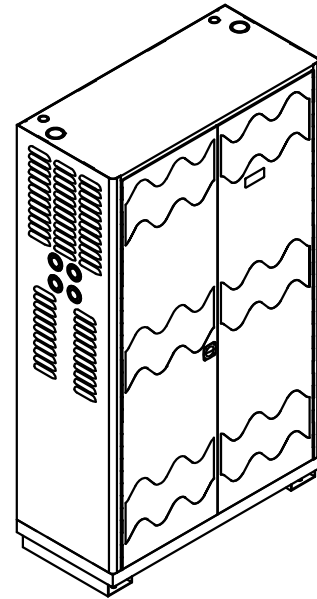
## STD VRLA BATTERY

### CRUCIAL POWER PRODUCTS

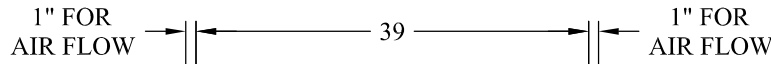
WAVE RIDER 1  
2.1 KW - 3 KW

DRAWN:	SHERRI	5/16/18	410-TD-A	REV
APPVD:	HENRY	5/16/18		A

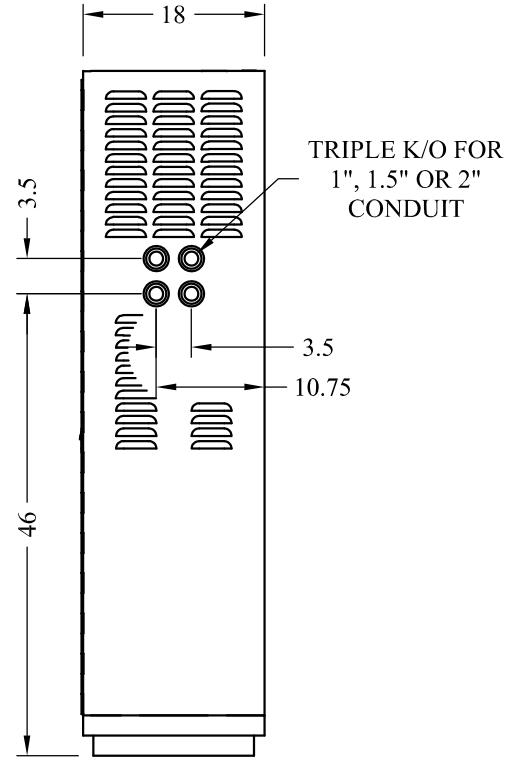
# INVERTER WITH 90 MIN. BACKUP



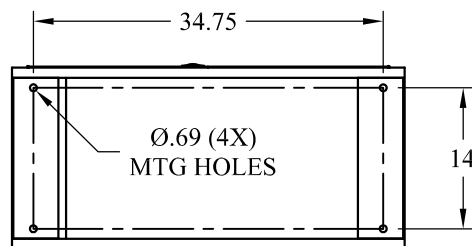
TOP VIEW



FRONT VIEW



SIDE VIEW

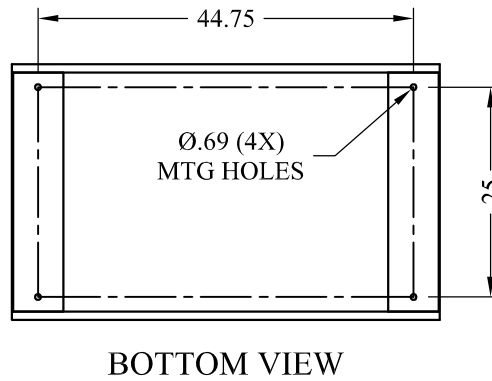
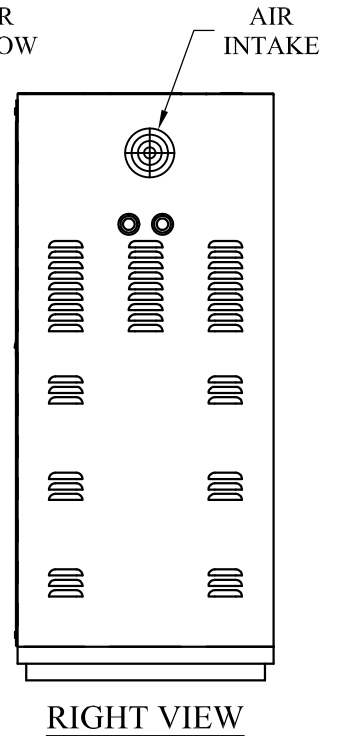
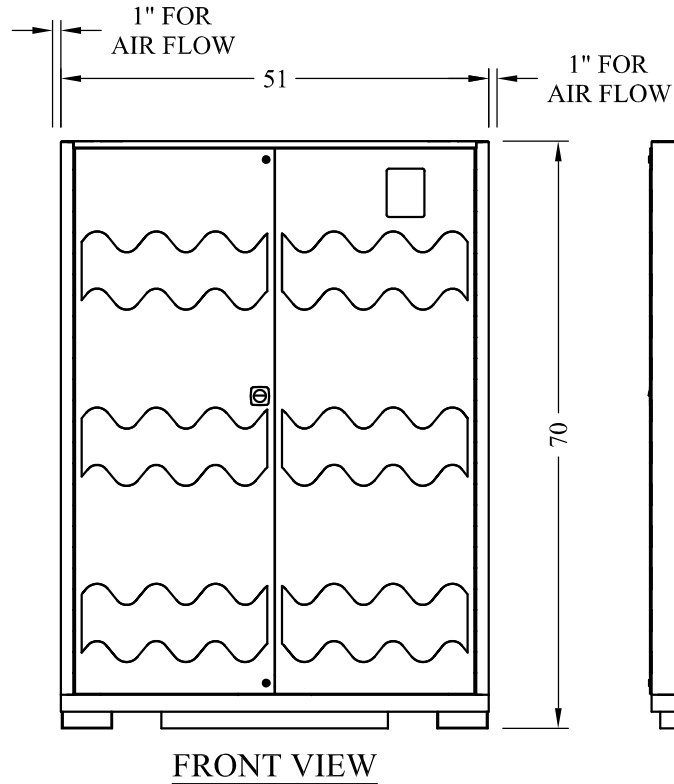
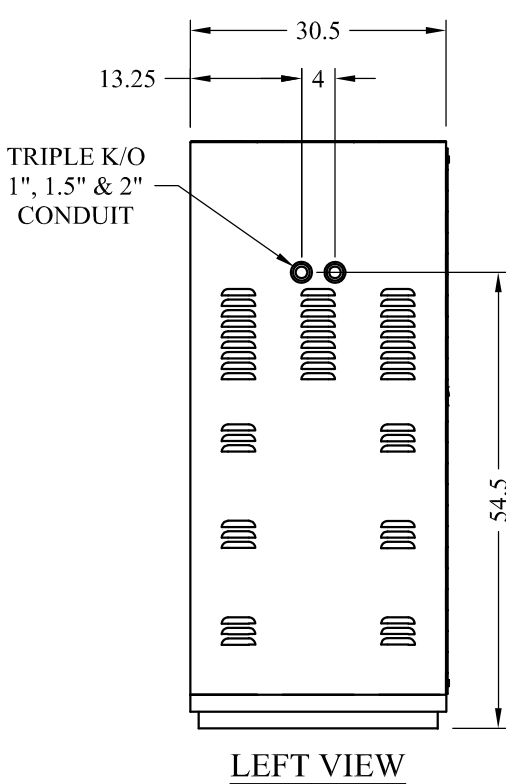
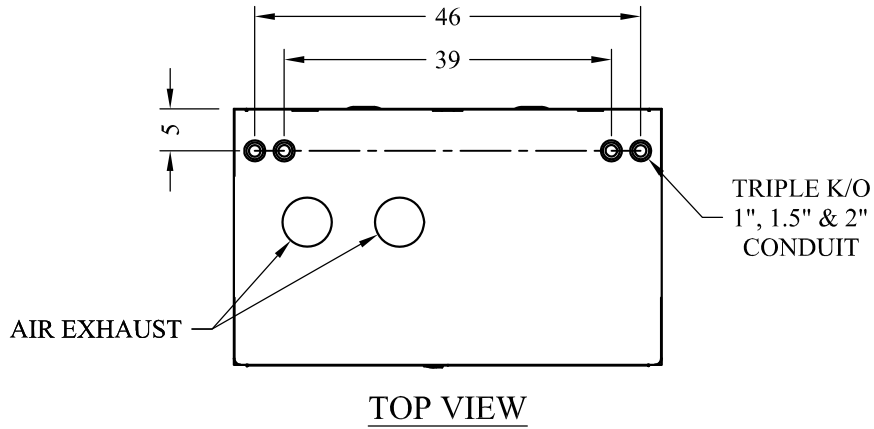


BOTTOM VIEW

## STD VRLA BATTERY

<b>CRUCIAL POWER PRODUCTS</b>			
WAVE RIDER 1 3.5, 5, 6 & 8 KW			
DRAWN:	SHERRI	5/16/18	410-TD-B
APPVD:	HENRY	5/16/18	
			REV A

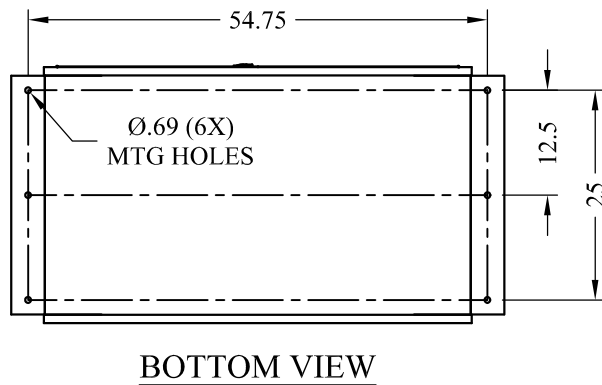
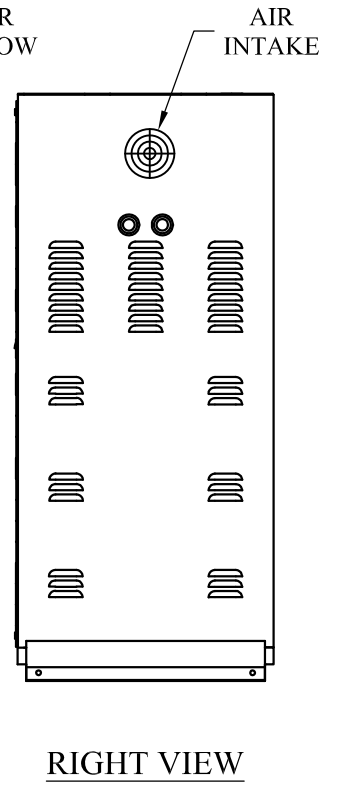
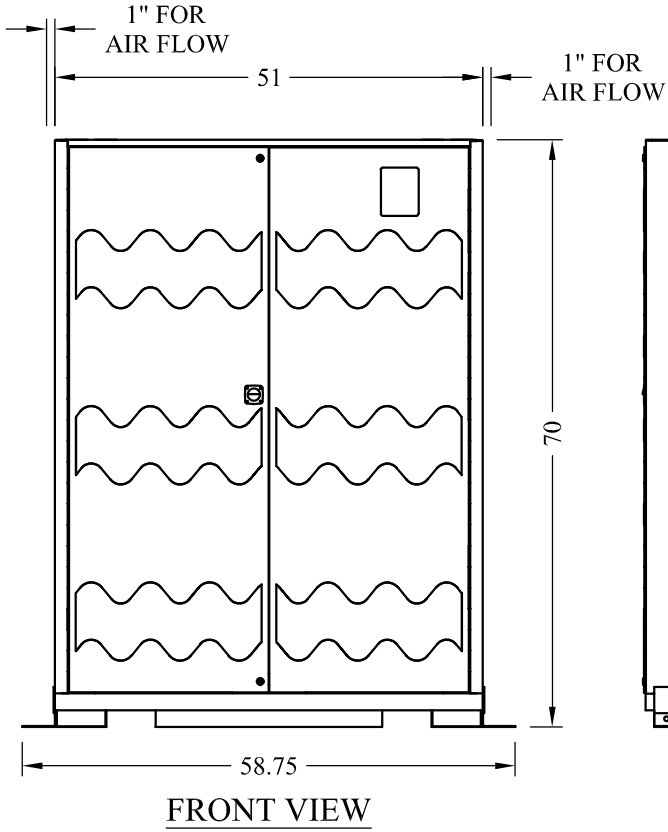
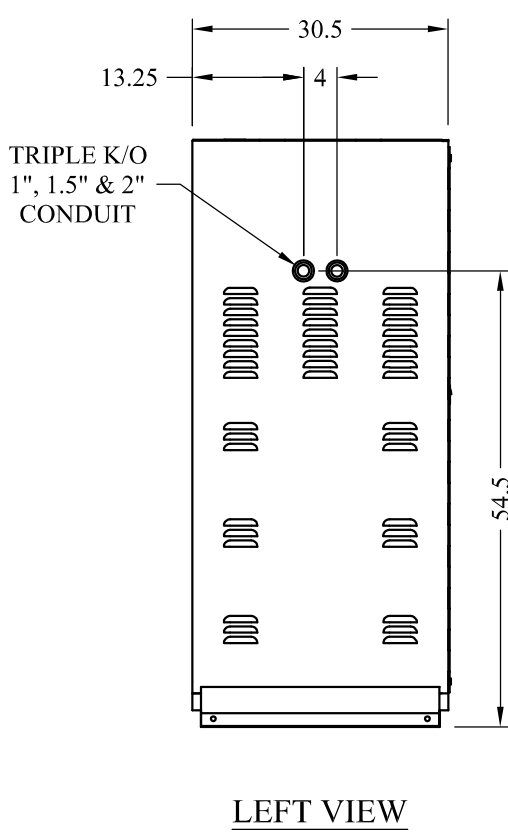
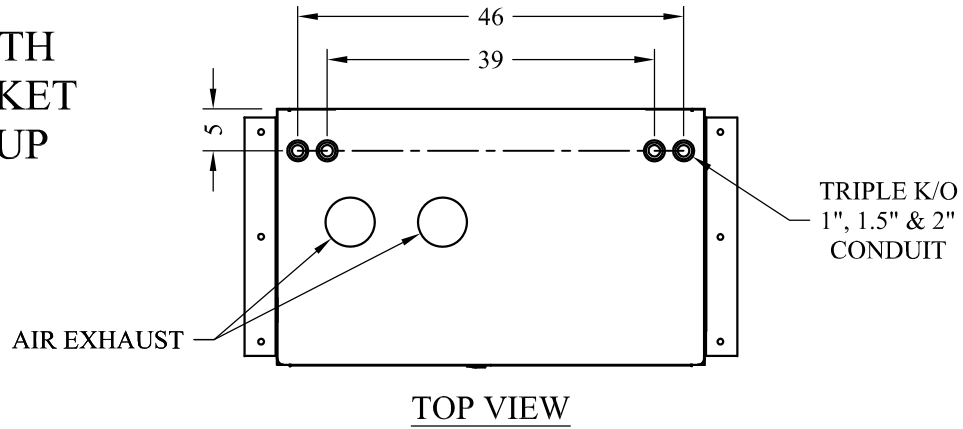
# INVERTER WITH 90 MIN BACKUP



STD VRLA  
BATTERY

CRUCIAL POWER PRODUCTS			
WAVE RIDER 1			
5.25, 7, 7.5, 8.75 THRU 17 KW			
DRAWN:	SHERRI	5/16/18	410-TD-C
APPVD:	HENRY	5/16/18	
			REV A

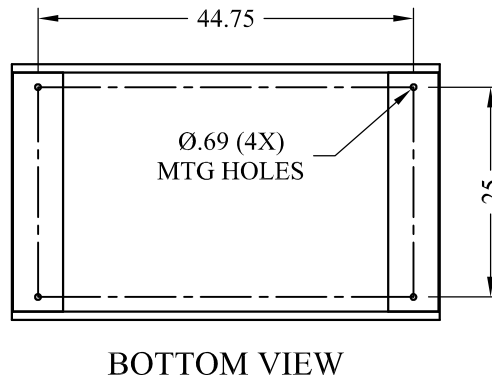
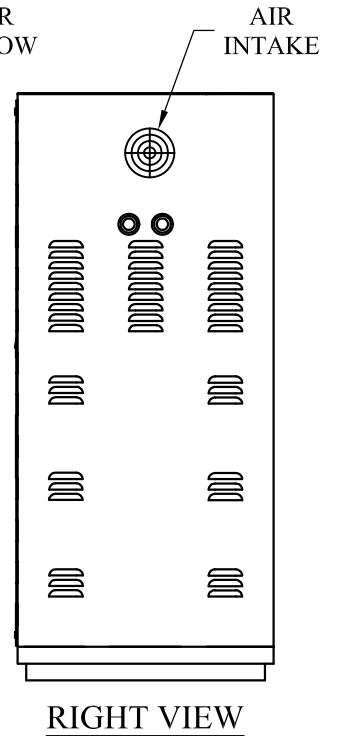
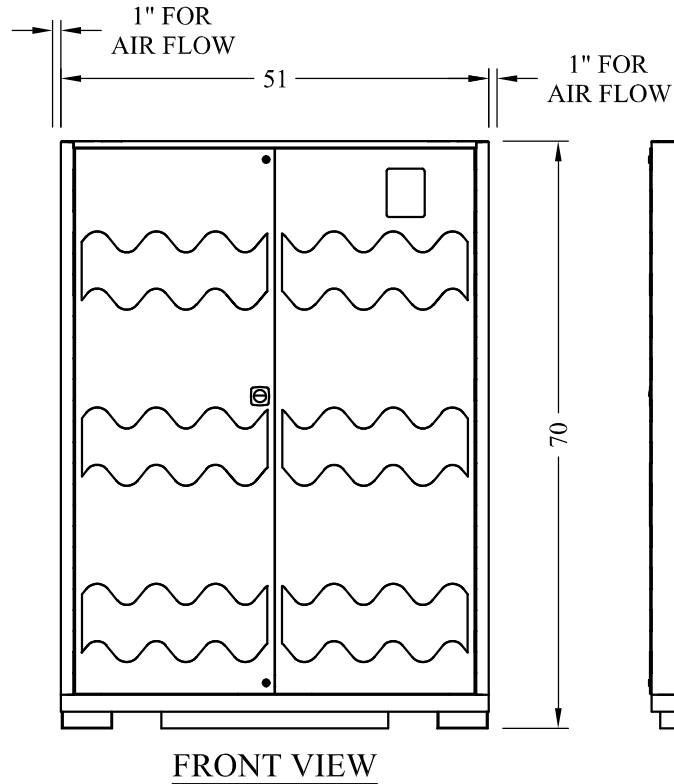
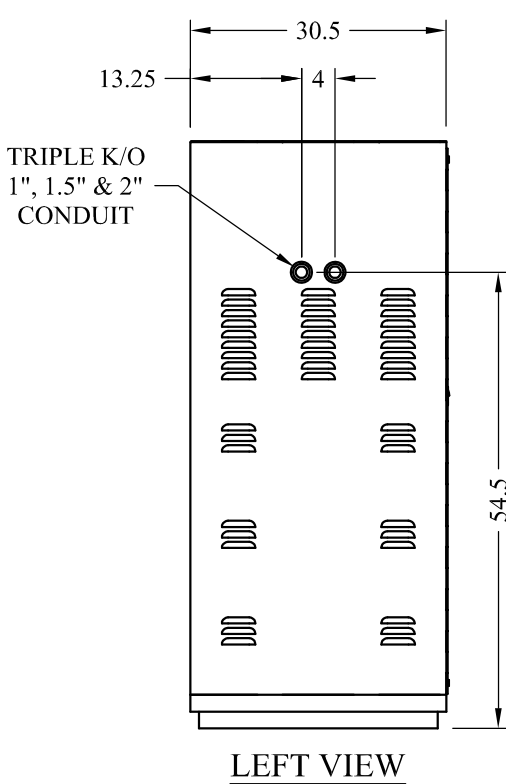
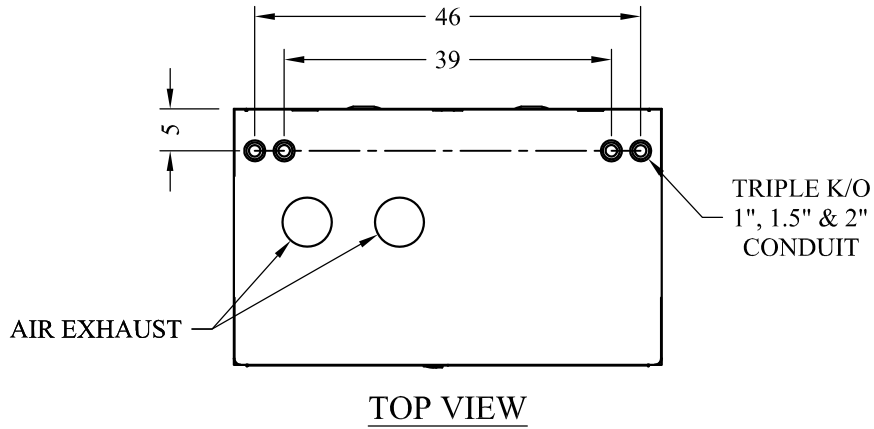
# INVERTER WITH SEISMIC BRACKET 90 MIN BACKUP



STD VRLA  
BATTERY

CRUCIAL POWER PRODUCTS			
WAVE RIDER 1			
5.25, 7, 7.5, 8.75 THRU 17 KW			
DRAWN:	SHERRI	5/16/18	410-TD-D
APPVD:	HENRY	5/16/18	
			REV A

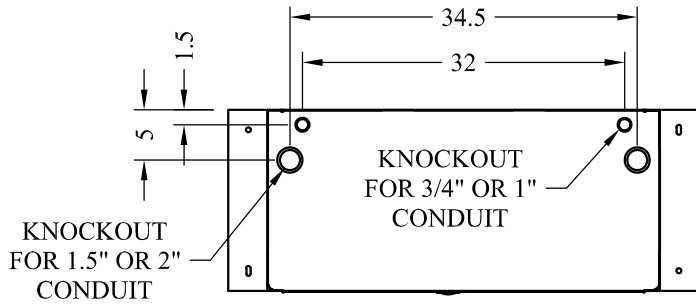
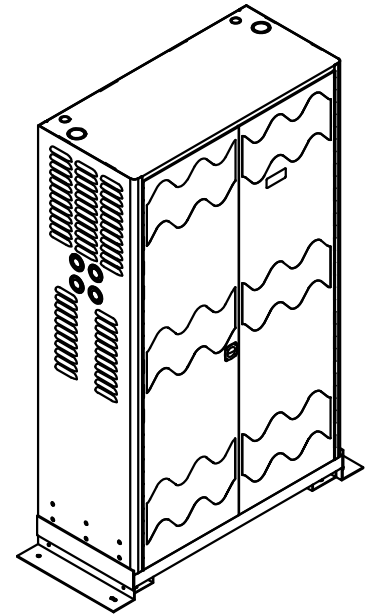
# INVERTER WITH 90 MIN BACKUP



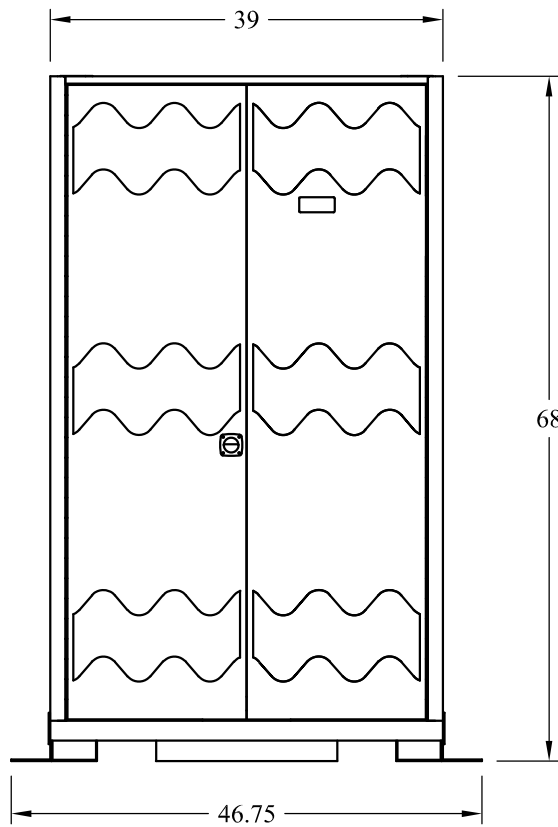
OPTIONAL  
LONG LIFE  
BATTERY

CRUCIAL POWER PRODUCTS			
WAVE RIDER 1 2.1 KW THRU 17 KW			
DRAWN:	SHERRI	5/16/18	410-TD-F
APPVD:	HENRY	5/16/18	
			REV B

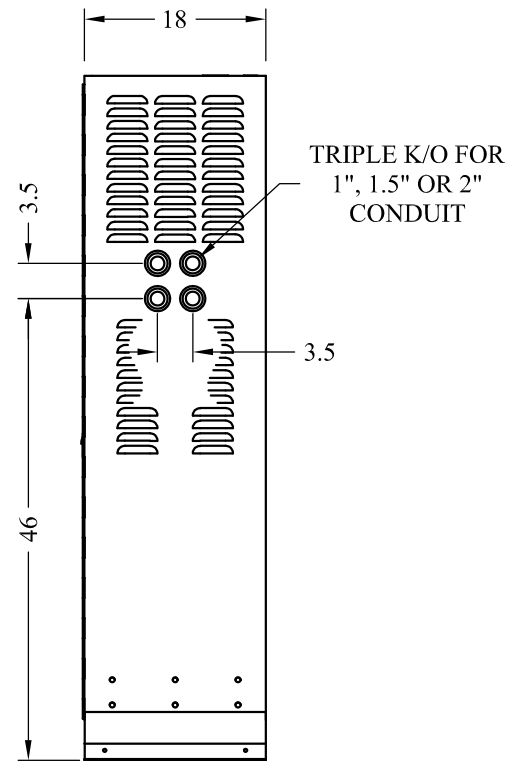
# INVERTER WITH SEISMIC BRACKET 90 MIN. BACKUP



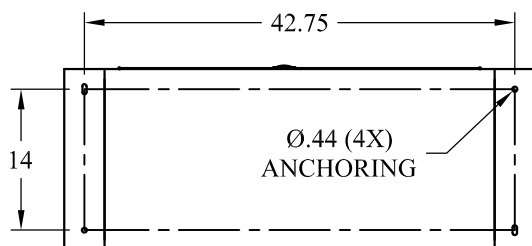
TOP VIEW



FRONT VIEW



SIDE VIEW



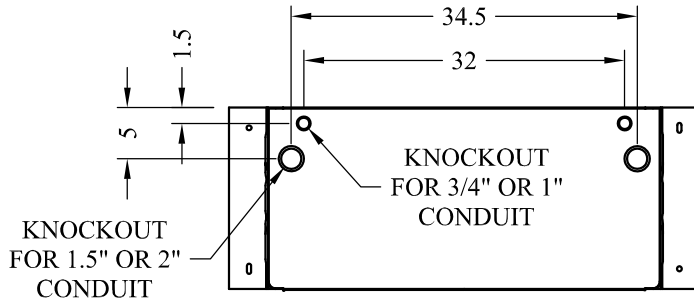
BOTTOM VIEW

## STD VRLA BATTERY

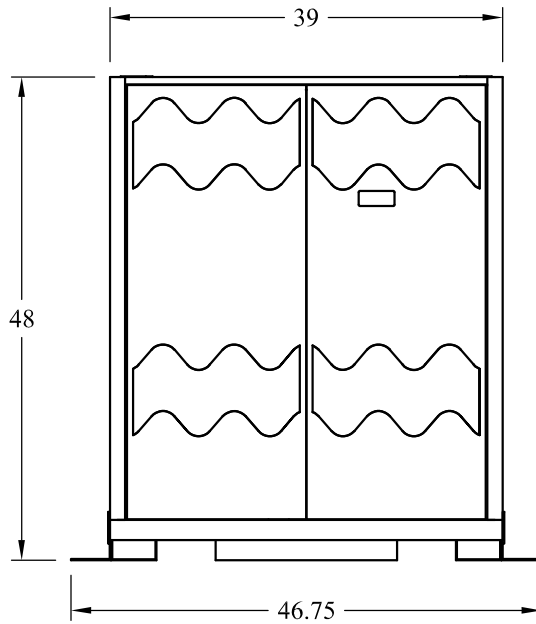
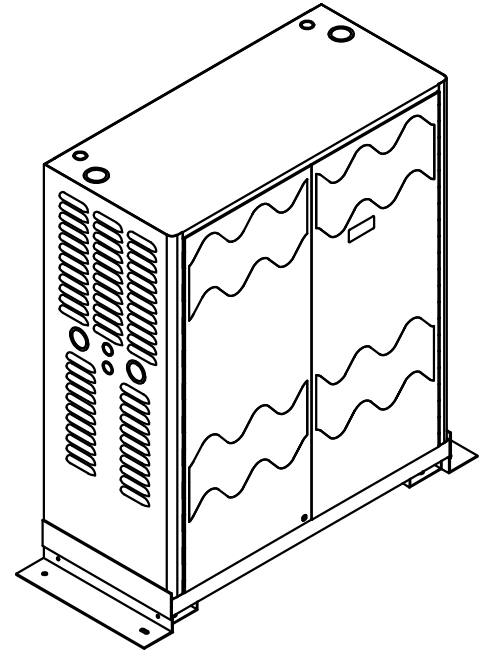
<b>CRUCIAL POWER PRODUCTS</b>			
WAVE RIDER 1 3.5, 5, 6 & 8 KW			
DRAWN:	SHERRI	5/16/18	410-TD-G
APPVD:	HENRY	5/16/18	
			REV A



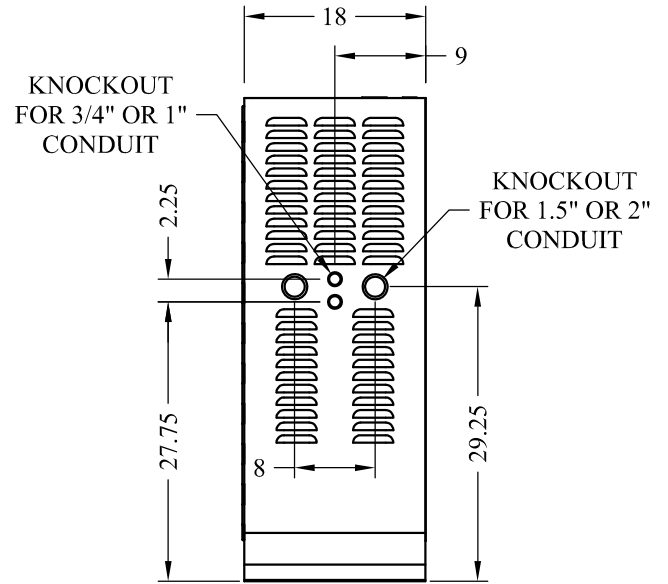
**INVERTER WITH  
SEISMIC BRACKET  
90 MIN. BACKUP**



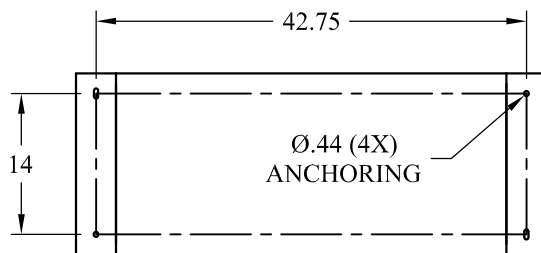
**TOP VIEW**



**FRONT VIEW**



**SIDE VIEW**

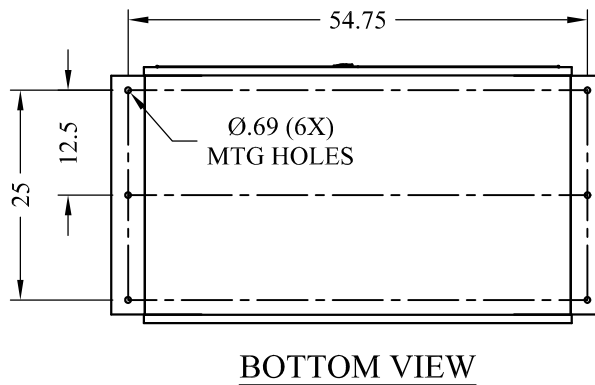
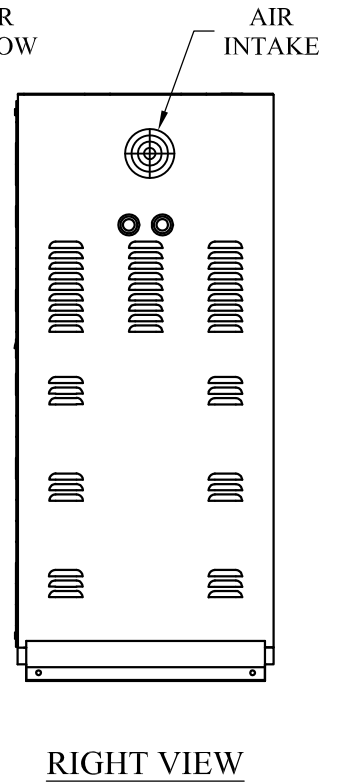
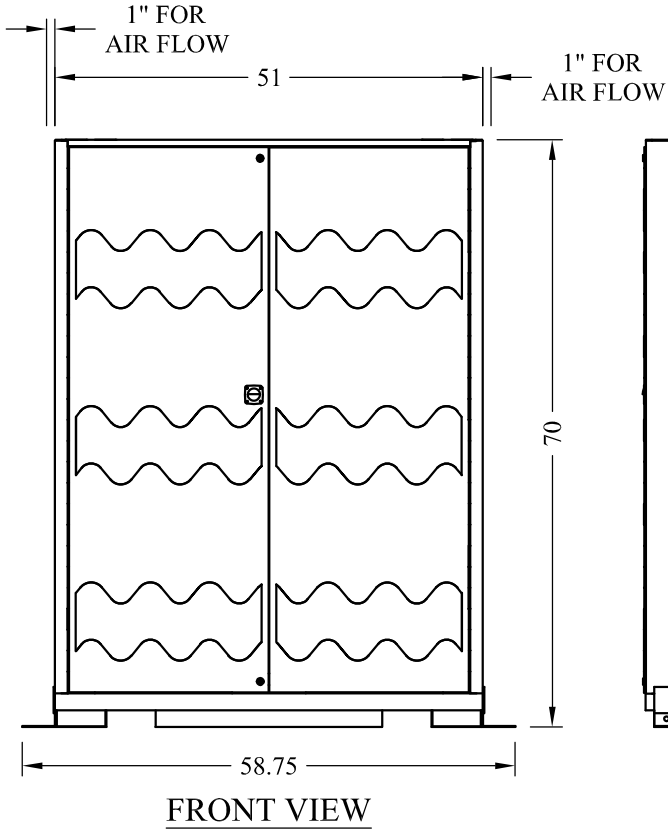
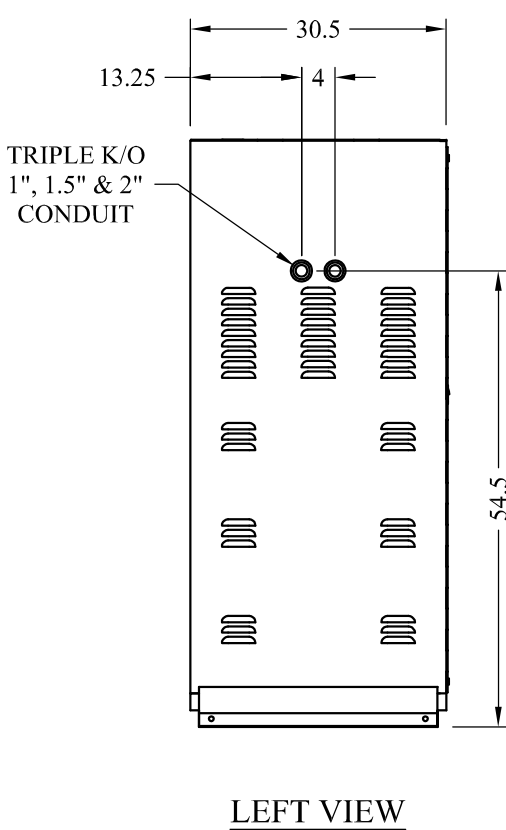
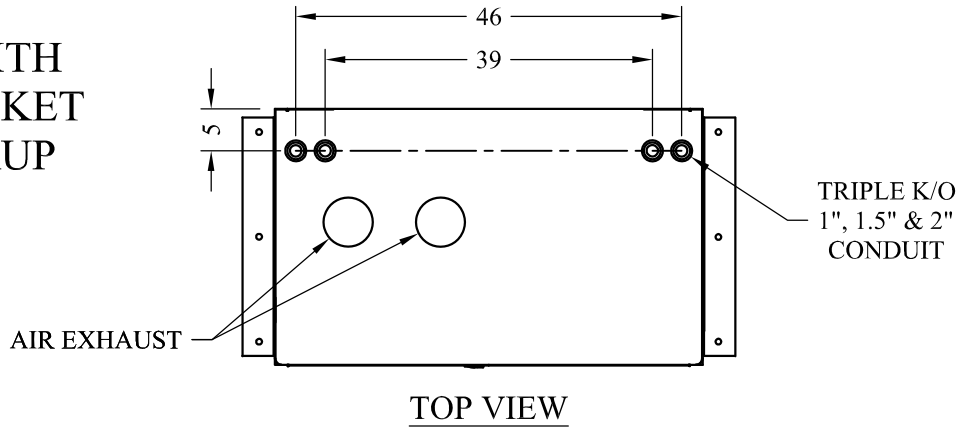


**BOTTOM VIEW**

**STD VRLA  
BATTERY**

<b>CRUCIAL POWER PRODUCTS</b>			
<b>WAVE RIDER 1 2.1 KW - 3 KW</b>			
DRAWN:	SHERRI	5/16/18	<b>410-TD-H</b>
APPVD:	HENRY	5/16/18	
			REV <b>A</b>

# INVERTER WITH SEISMIC BRACKET 90 MIN BACKUP



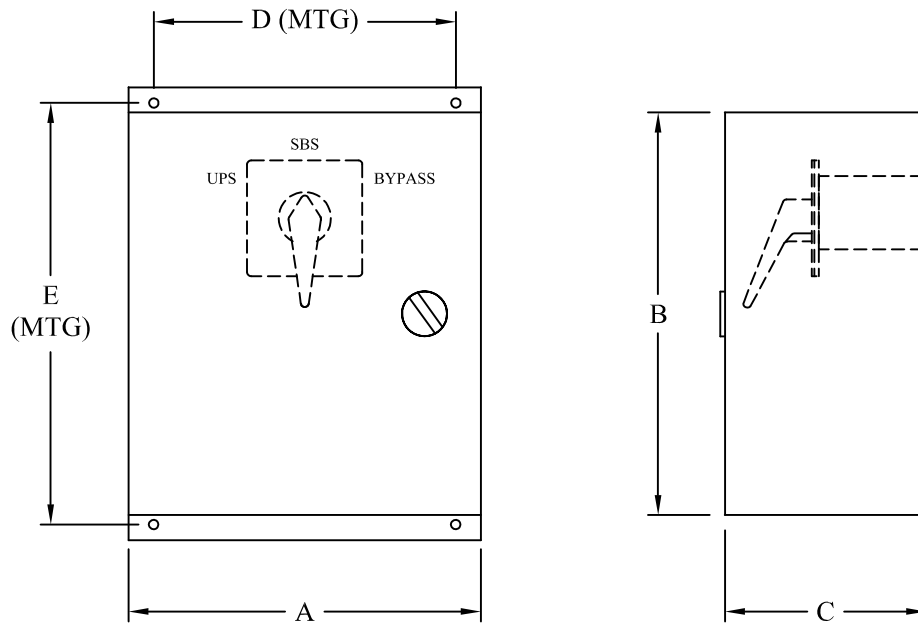
OPTIONAL  
LONG LIFE  
BATTERY

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			
DRAWN:	SHERRI	9/11/19	410-TD-I
APPVD:	HENRY	9/11/19	
			REV A

PART NUMBER	RATING	DIM A	DIM B	DIM C	DIM D (MTG)	DIM E (MTG)
3000-044-2P	55 AMPS	14	16	6	12	16.75
3000-045-2P	110 AMPS	14	16	10	12	16.75
3000-046-2P	175 AMPS	20	20	12	18.5	18.5

# SINGLE PHASE MAKE BEFORE BREAK EXTERNAL WRAP AROUND BY-PASS SWITCH



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.

<b>CRUCIAL POWER PRODUCTS</b>			
<b>WAVE RIDER 1 BYPASS SWITCH ENCLOSURE</b>			
DRAWN:	SHERRI	5/22/18	411-TD-001-A
APPVD:	HENRY	5/22/18	
			REV A