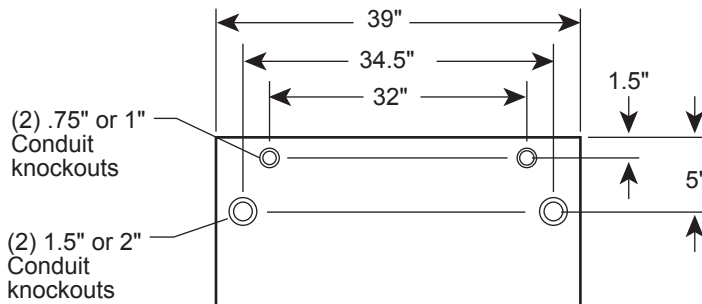
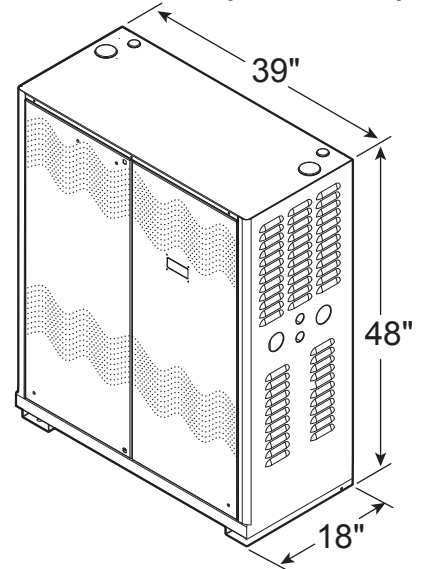
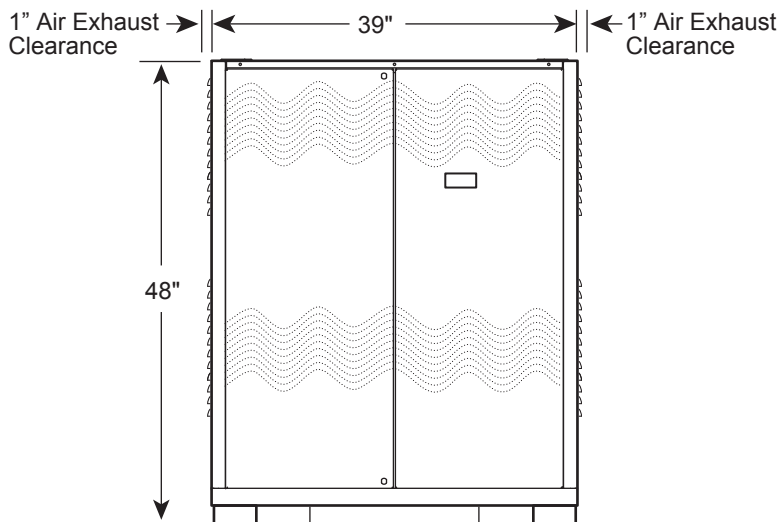


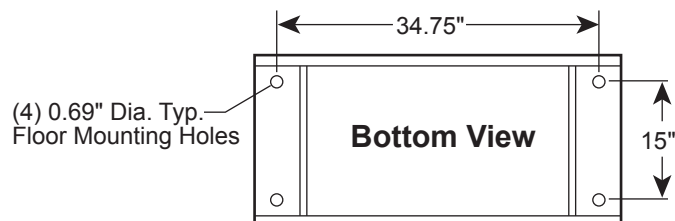
UPS Cabinet (Standard)



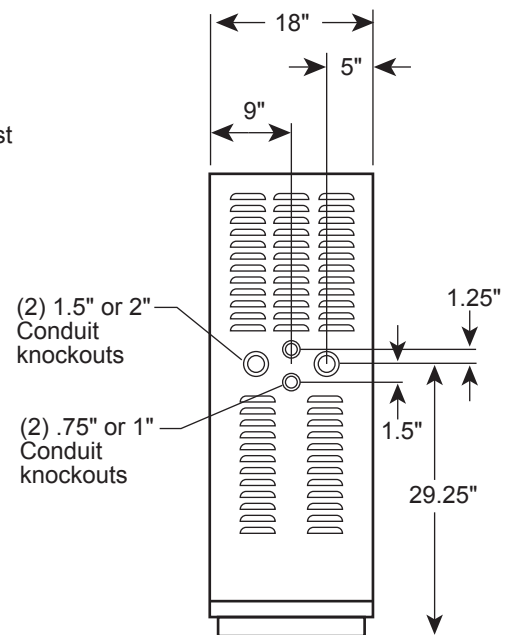
Top View



Front View



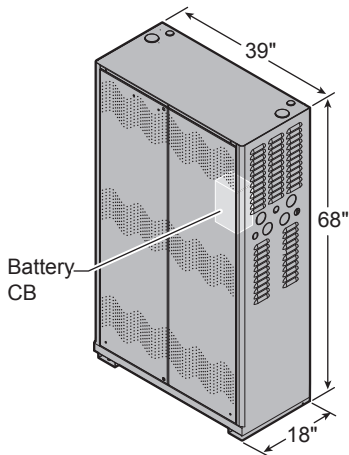
Bottom View



Side View
(Both Sides Typ.)

☐ APPROVED ☐ DISAPPROVED ☐ APPROVED WITH COMMENTS		DATE:	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.		TITLE:
COMMENTS:			ILLUSTD: CHUN	7/15/09	UPS & Battery Cabinet Installations
			CHKD:		
			APPVD:		1 Phase UPS 3kW
			APPVD:		
NAME:	SIGNATURE:	SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE			DWG #: 6001-032-03 Rev P1

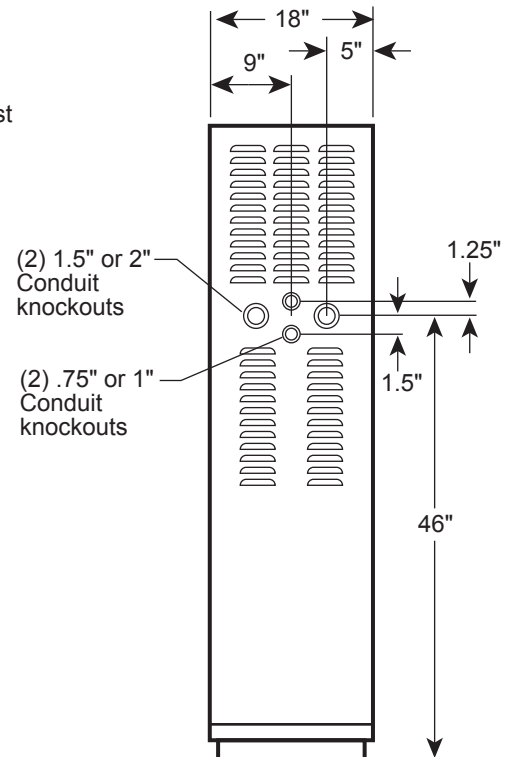
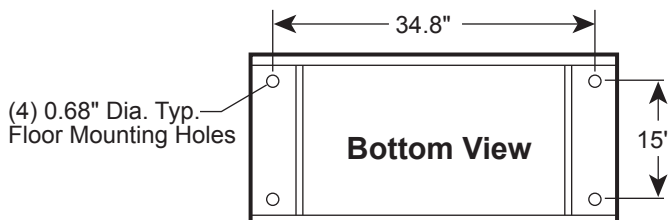
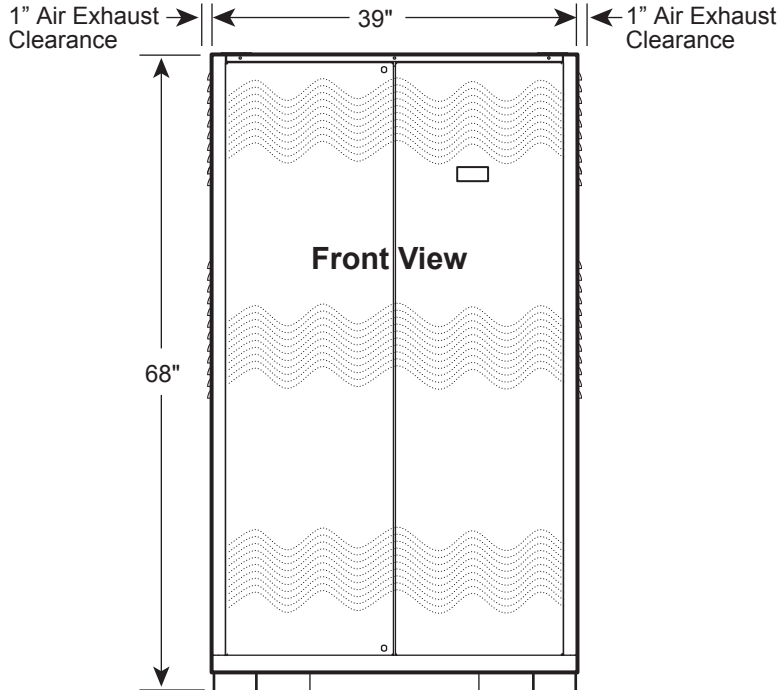
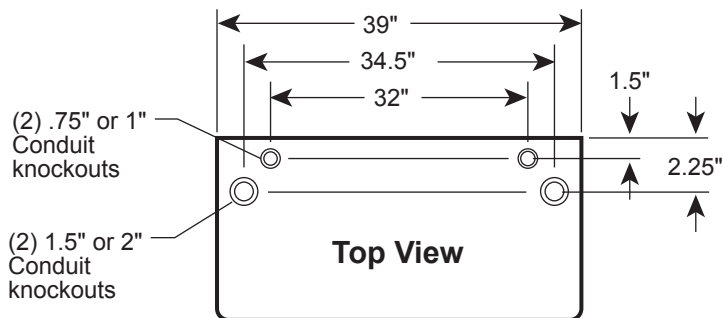
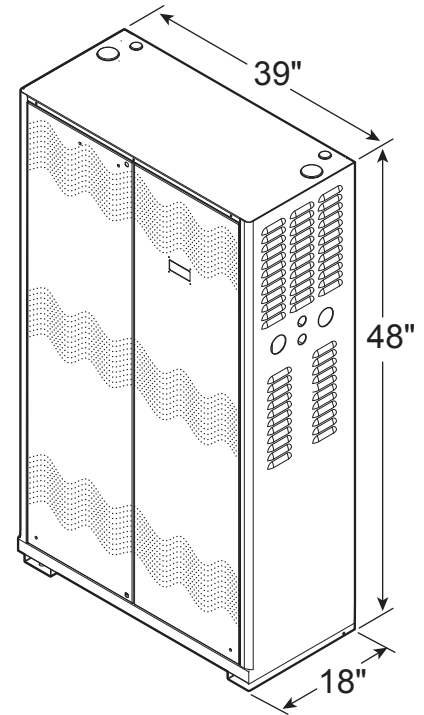
Battery Cabinet



NOTE:

1. Matching Battery Cabinet has same physical dimensions.
2. Each battery cabinet includes 1 CB.
3. Each battery cabinet have top and sides conduit entry and same floor mounting hole dimensions.
4. Optional Seismic Brackets (P/N: 9100-1317-02) are available. When seismic bracket used, 8" min. space required between cabinets. Anchoring hardware to be supply by customer.

UPS Cabinet (Standard)



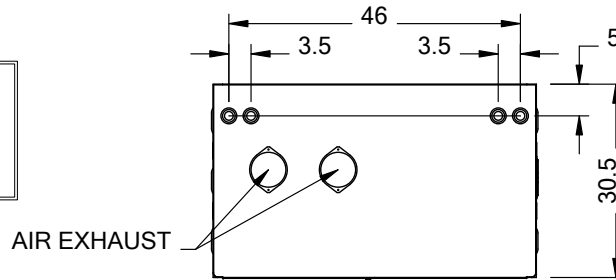
Side View
(Both Sides Typ.)

Drawn by: Chun Chi	Date: 7/15/09	UPS & Battery Cabinet Installations	
Chkd.:	Date:	1 Phase UPS 5 KW	
Appvd.:	Date:		6001-033-01 Rev P1

REVISION				
REV	ECO	DESCRIPTION	DATE	APPROVED
P1		PRELIMINARY	6/21/10	H. BAIK

Using 51" wide cabinet

**STD VRLA
BATTERY**

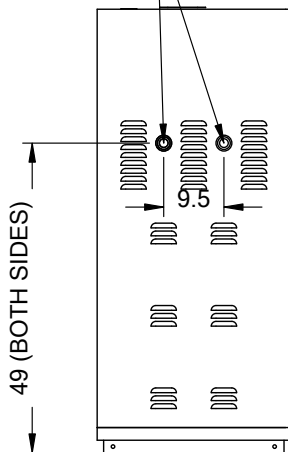


TOP VIEW

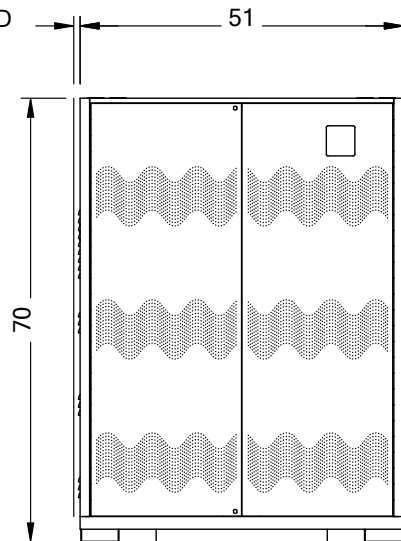
KNOCK OUT
FOR 1", 1.5" & 2"
CONDUIT (TYP)

1 AIR INTAKE
CLEARANCE
REQUIRED

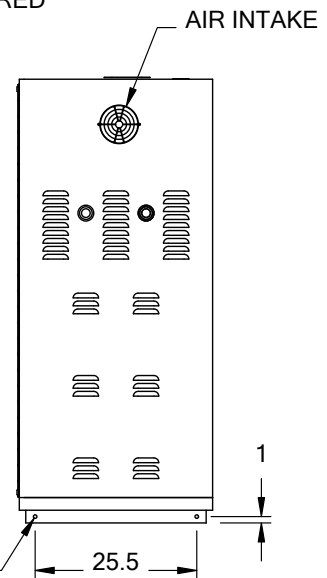
1 AIR INTAKE
CLEARANCE
REQUIRED



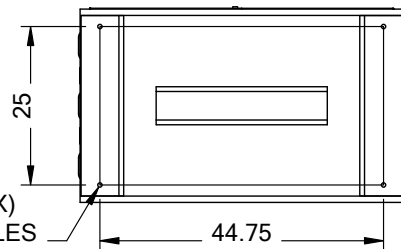
LEFT VIEW



FRONT VIEW



RIGHT VIEW



BOTTOM VIEW

NOTES: (UNLESS OTHERWISE SPECIFIED)

- 1) DIMENSIONS SHOWN ARE APPROXIMATE.
- 2) CONSTRUCTION: INDOOR NEMA 1.
- 3) RATING & WEIGHT: CHARTED.
- 4) WEIGHT ARE APPROX. DEPENDING ON OPTION(S).
- 5) PROVISION FOR SEISMIC BRACKET

17	4200 LBS
15	4120 LBS
12.5	3370 LBS
10	3050 LBS
7.5	2300 LBS
KW	WT. (NOTE 4)

☐ APPROVED ☐ DISAPPROVED
☐ APPROVED WITH COMMENTS

DATE:

COMMENTS:

NAME:

SIGNATURE:

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS FRACTIONS ANGLES
.XX ± .03 ± 1/64 ± 1/2°
.XXX ± .010

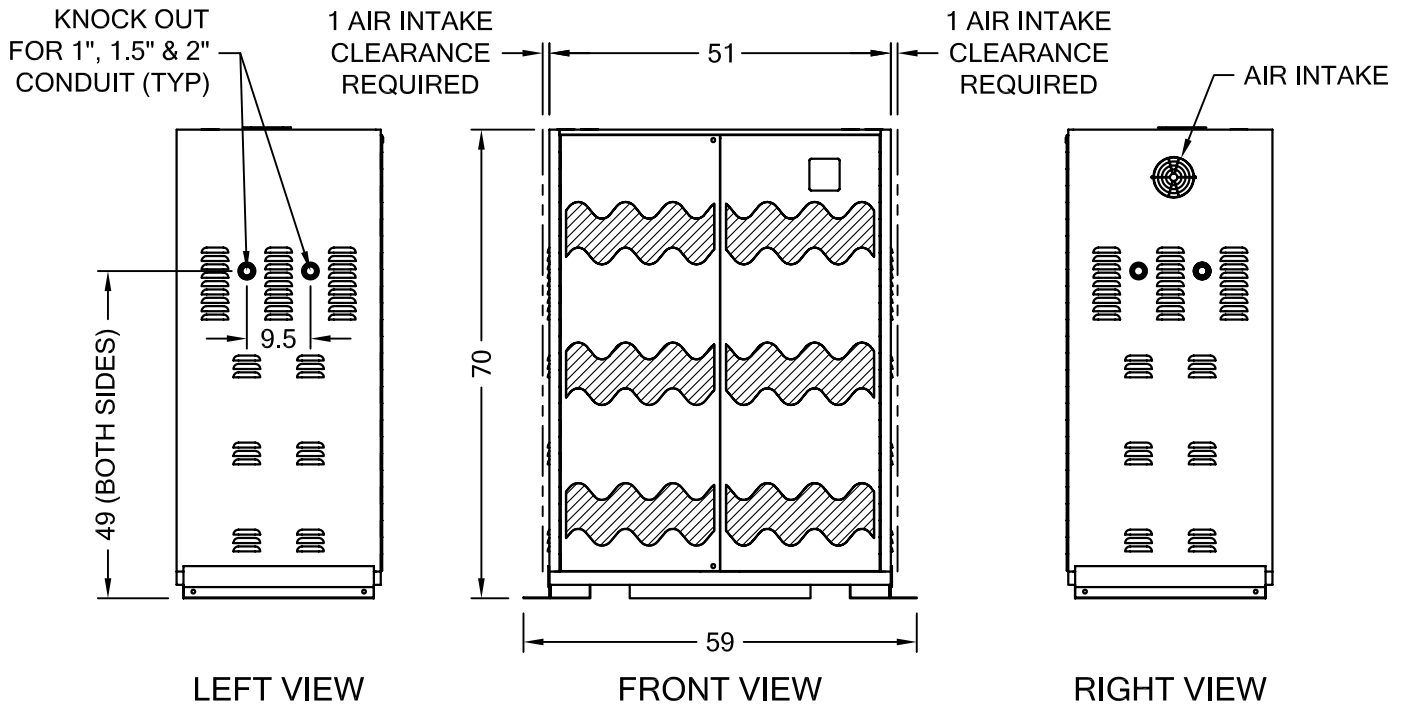
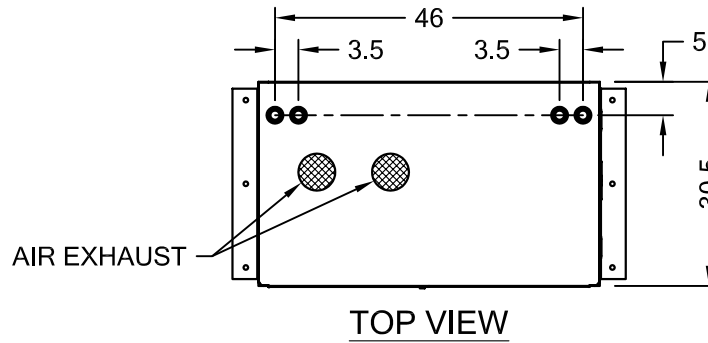
CADD:	HAI NGUYEN	6/21/10
CHKD:	HAI NGUYEN	6/21/10
APPVD:	H. BAIK	6/21/10



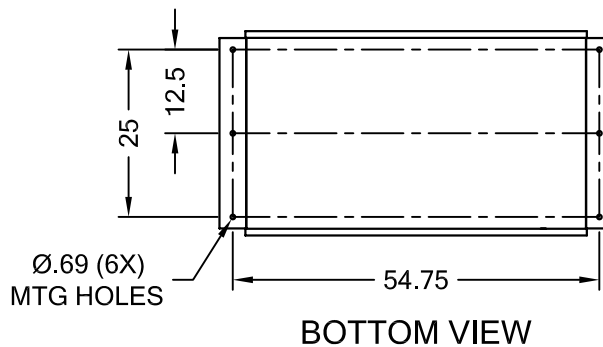
TITLE 7.5 KW - 17 KW, 1 PHASE INVERTER WITH 90 MIN. BATT.		
SIZE A	DWG 6001-155	REV P1
SCALE: NONE	EST. WT:	SHT 1 OF 1

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

REVISION				
REV	ECO	DESCRIPTION	DATE	APPROVED
X1		PRELIMINARY	8/29/12	H. BAIK



17	4200 LBS	4640 LBS
15	4120 LBS	4560 LBS
12.5	3370 LBS	3722 LBS
10	3050 LBS	3226 LBS
7.5	2300 LBS	2520 LBS
KW	STD VRLA BATTERY	LONG LIFE BATTERY
	WEIGHT (NOTE 4)	



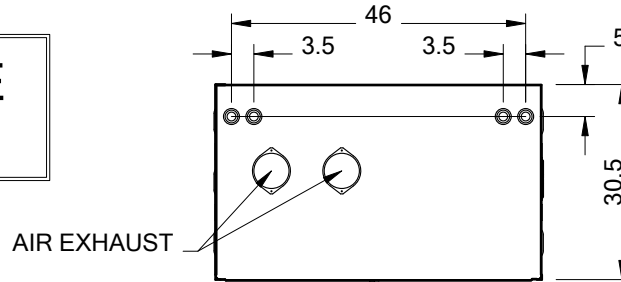
- NOTES:** (UNLESS OTHERWISE SPECIFIED)
- 1) DIMENSIONS SHOWN ARE APPROXIMATE.
 - 2) CONSTRUCTION: INDOOR NEMA 1.
 - 3) RATING & WEIGHT: CHARTED.
 - 4) WEIGHT ARE APPROX. DEPENDING ON OPTION(S).

☐ APPROVED ☐ DISAPPROVED ☐ APPROVED WITH COMMENTS		DATE:	UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE: DECIMALS FRACTIONS ANGLES .XX ± .03 ± 1/64 ± 1/2" .XXX ± .010	PERFECT POWER SYSTEMS COMMERCE, CA			
COMMENTS: _____ _____ _____		CADD: HAI NGUYEN 8/29/12 CHKD: HAI NGUYEN 8/29/12 APPVD: H. BAIK 8/29/12		TITLE 7.5 KW - 17 KW, 1 PHASE WITH SEISMIC (90 MIN BATT)			
				SIZE A	DWG 6001-237P		REV X1
				SCALE:		EST. WT:	SHT 1 OF 1
NAME:		SIGNATURE:	SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE				

REVISION				
REV	ECO	DESCRIPTION	DATE	APPROVED
P1		PRELIMINARY	6/21/10	H. BAIK

Using 51" wide cabinet

**LONG LIFE
BATTERY**

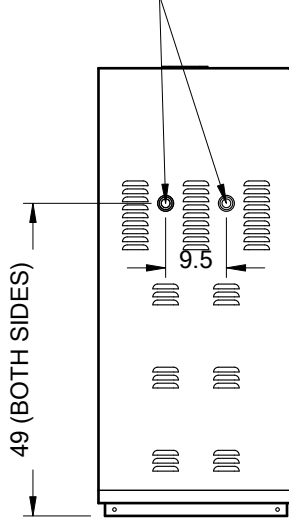


TOP VIEW

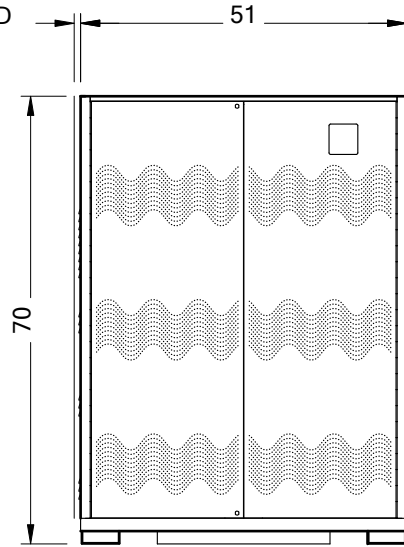
KNOCK OUT
FOR 1", 1.5" & 2"
CONDUIT (TYP)

1 AIR INTAKE
CLEARANCE
REQUIRED

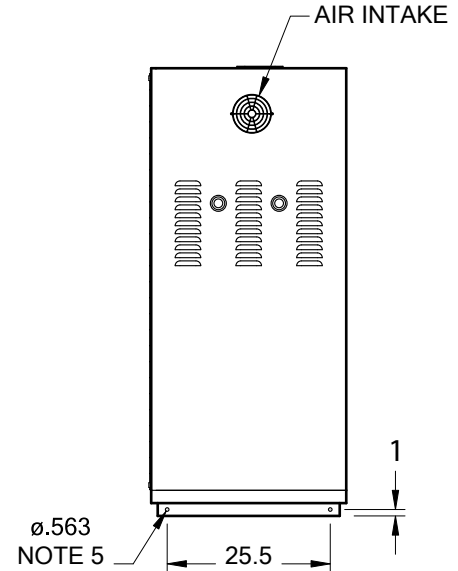
1 AIR INTAKE
CLEARANCE
REQUIRED



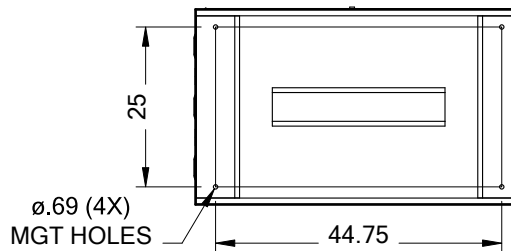
LEFT VIEW



FRONT VIEW



RIGHT VIEW



BOTTOM VIEW

NOTES: (UNLESS OTHERWISE SPECIFIED)

- 1) DIMENSIONS SHOWN ARE APPROXIMATE.
- 2) CONSTRUCTION: INDOOR NEMA 1.
- 3) RATING & WEIGHT: CHARTED.
- 4) WEIGHT ARE APPROX. DEPENDING ON OPTION(S).
- 5) PROVISION FOR SEISMIC BRACKET

17	4640 LBS
15	4560 LBS
12.5	3722 LBS
10	3226 LBS
7.5	2520 LBS
KW	WT. (NOTE 4)

☐ APPROVED ☐ DISAPPROVED
☐ APPROVED WITH COMMENTS

DATE:

COMMENTS:

NAME:

SIGNATURE:

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS FRACTIONS ANGLES
.XX ± .03 ± 1/64 ± 1/2°
.XXX ± .010

CADD:	HAI NGUYEN	6/21/10
CHKD:	HAI NGUYEN	6/21/10
APPVD:	H. BAIK	6/21/10



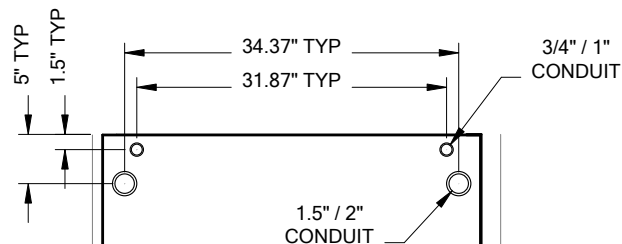
TITLE 7.5 KW - 17 KW, 1 PHASE
INVERTER WITH 90 MIN. BATT.

SIZE	DWG	6001-150	REV
A			P1
SCALE:	NONE	EST. WT:	SHT 1 OF 1

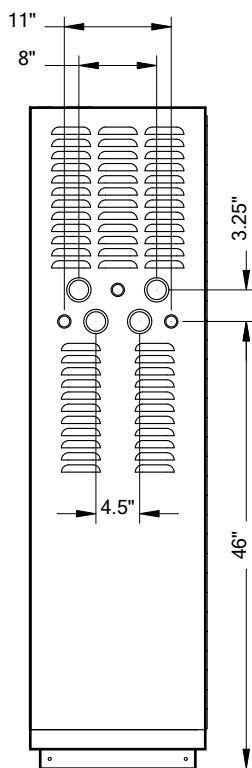
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

REV	ECO	DESCRIPTION	DATE	APPROVED
P1		PRELIMINARY	6/22/10	H. BAIK

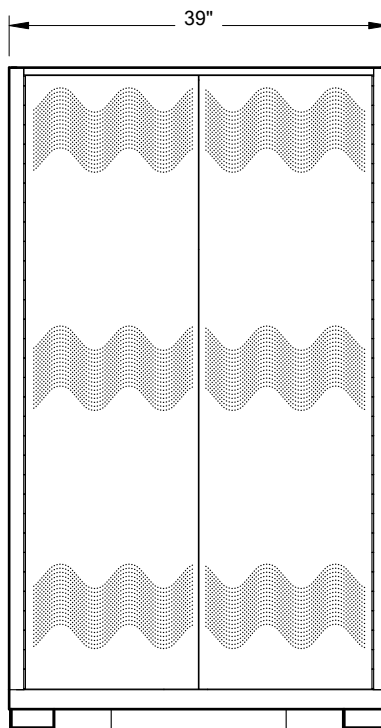
LONG LIFE
BATTERY



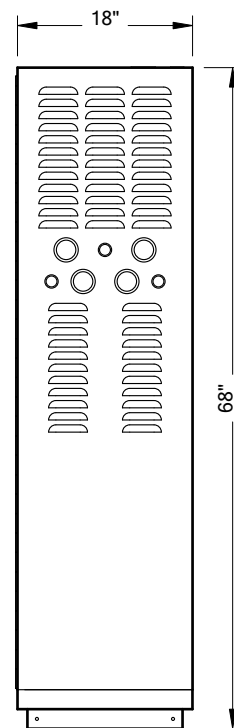
1" CLEARANCE TOP VIEW 2" CLEARANCE



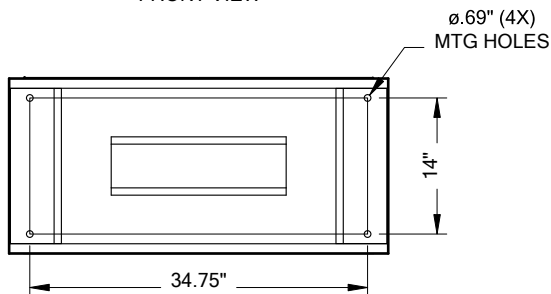
LEFT VIEW



FRONT VIEW



RIGHT VIEW



BOTTOM VIEW

NOTES: (UNLESS OTHERWISE SPECIFIED)

- 1) ALL DIMENSIONS SHOWN ARE APPROXIMATE.
- 2) CONSTRUCTION: INDOOR NEMA 1.

UNLESS OTHERWISE SPECIFIED,
DIMENSIONS ARE IN INCHES.
TOLERANCES ARE:
DECIMALS FRACTIONS ANGLES
.XX $\pm .03$ $\pm 1/64$ $\pm 1/2^\circ$
.XXX $\pm .010$



TITLE 3KW - 5KW, 1 PHASE
INVERTER WITH 90 MIN. BATT.

CADD: HAI NGUYEN 6/22/10

CHKD: HAI NGUYEN 6/22/10

APPVD: H. BAIK 6/22/10

SIZE DWG
A

6001-152

REV
P1

SCALE:

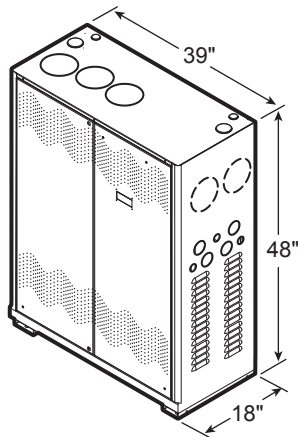
EST. WT:

SHT 1 OF 1

SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE

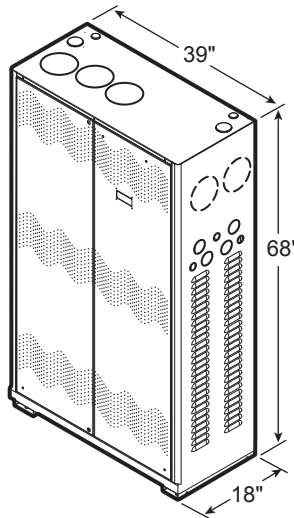
**3 kVA (2.1 kW)
3 kVA (3 kW)**

UPS & Battery Cabinet are
in a Single Cabinet.



**5 kVA (3.5 kW), 7.5 kVA (5.25 kW)
5 kVA (5.0 kW)**

UPS & Battery Cabinet are
in a Single Cabinet.

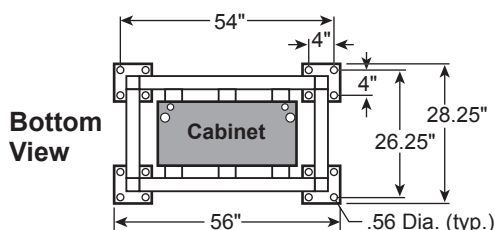
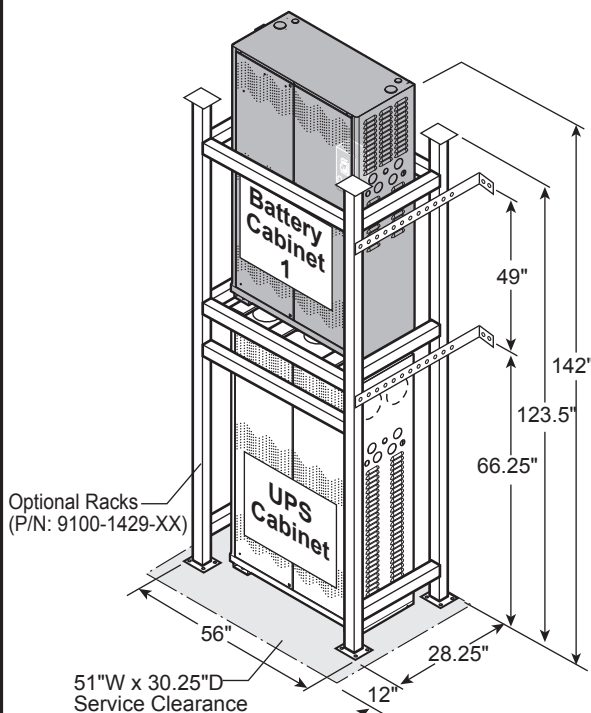


NOTE:

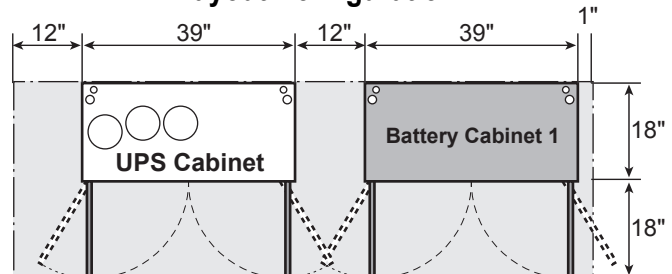
1. Service Clearance Areas are shaded.
2. Each battery cabinet includes 1 C/B.
3. Each battery cabinet have top and both sides conduit entry and same floor mounting hole dimensions as UPS cabinet. (See doc #: 6001-032-03 for detail).
4. Optional Seismic Brackets (P/N: 9100-1317-02) are available. When seismic bracket used, 8" min. space required between cabinets. Anchoring hardware to be supply by the customer.
5. Optional racks (P/N: 9100-1429-XX) available for stack battery cabinets. (see doc #: 6001-032-07).
6. Consult factory for different back-up times and number of battery cabinet require.

**10 kVA (7.0 kW), 7.5 kVA (7.5 kW), 10 kVA (10 kW), 12.5 kVA (8.85 kW), 12.5 kVA (12.5 kW),
15 kVA (10.5 kW), 15 kVA (15 kW), 20 kVA (14 kW)**

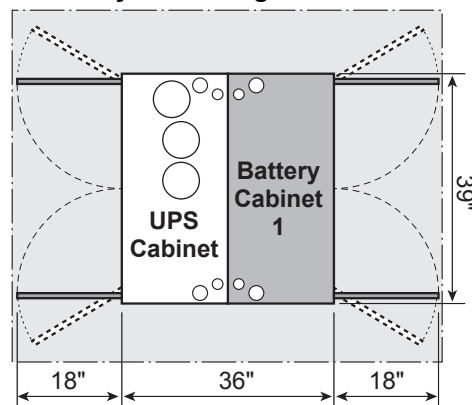
Layout Configuration 3



Layout Configuration 1



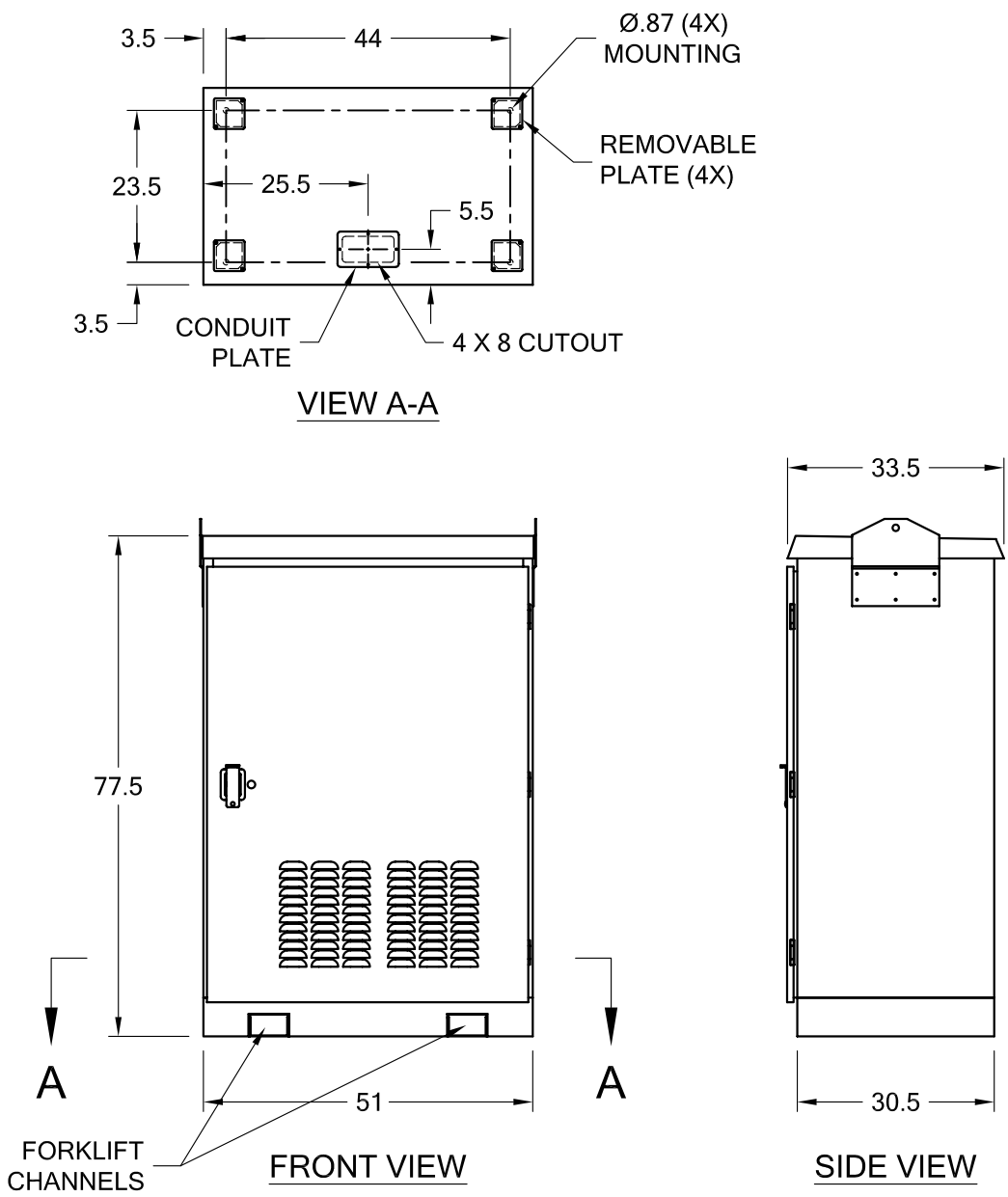
Layout Configuration 2



Drawn by: Chun Chi	Date: 2/1/06	Battery Cabinet Installations	
Chkd.:	Date:	1 Phase UPS with 90 Min Battery Backup	
Appvd.:	Date:		6001-033-02 Rev P1

REVISION				
REV	ECO	DESCRIPTION	DATE	APPROVED
X1		PRELIMINARY	4/7/10	H. BAIK

Outdoor Cabinet

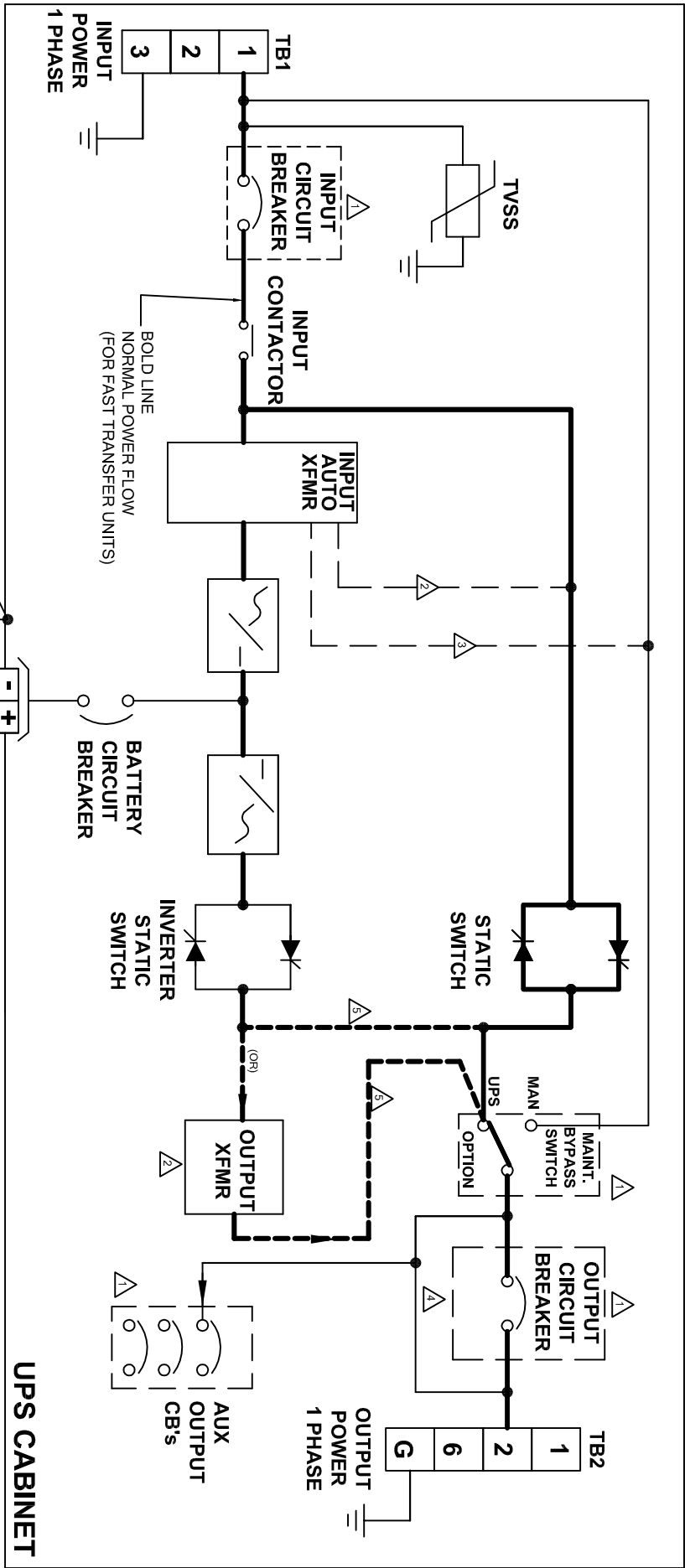


NOTES: (UNLESS OTHERWISE SPECIFIED)

- 1) DIMENSIONS SHOWN ARE APPROXIMATE.
- 2) CONSTRUCTION: OUTDOOR.
- 3) RATING: 7.5 KW TO 17 KW.

☐ APPROVED ☐ DISAPPROVED		DATE:		 TITLE OUTDOOR - 7.5 KW - 17 KW INVERTER WITH 90 MIN. BATT.			
☐ APPROVED WITH COMMENTS						CADD: HAI NGUYEN 4/7/10	
COMMENTS: _____ _____ _____				CHKD: HAI NGUYEN 4/7/10		SIZE DWG 6001-131P REV X1	
				APPVD: H. BAIK 4/7/10		SCALE: EST. WT: SHT 1 OF 1	
				NAME: SIGNATURE: SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE			

REVISION				
REV	ECO	DESCRIPTION	DATE	APPROVED
A	8323	NEW RELEASE	01/07/07	H.BAIK
B	9550	REVISED FOR INTERNAL BATTERY	7/12/11	H.BAIK
C	9835	REVISED	8/10/12	H.BAIK



NOTES: (UNLESS OTHERWISE SPECIFIED)

- 1 ALL DOTTED LINE ARE OPTIONAL.
- 2 USE FOR DIFFERENT INPUT/OUTPUT VOLTAGE UNITS.
- 3 CONNECT THIS WAY FOR DIFFERENT INPUT/OUTPUT VOLTAGE UNITS.
- 4 IN CASE OF OUTPUT CB / AUX OUTPUT CB BOTH USED, WIRES AUX CB's TO MBS OUTPUT.
- 5 FAST TRANSFER UNITS (INVERTER IS AT STAND-BY MODE WITH OR WITHOUT OUTPUT XFMR).

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES. TOLERANCES ARE:				PERFECT POWER SYSTEMS			
DECIMALS	FRACTIONS	ANGLES		COMMERCE, CA			
.XX ± .03	± 1/64	± 1/2°		TITLE			
CADD: S.SHAHSAVARI				1Ø PHASE UPS, BLOCK DIAGRAM			
CHKD: S.S.				STANDARD MODE/ FAST TRANSFER			
APPVD: H. BAIK				6001-033-03P			
SCALE:				SHT 1 OF 1			
SPECIFICATIONS SUBJECT TO CHANGE WITHOUT NOTICE							

**SIDE
MOUNT
PROVISION**

**BACK
MOUNTING
PROVISION**

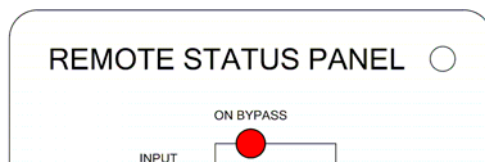


**TO UPS P100 TERMINAL
BLOCK
SEE INSTALLATION
INSTRUCTION SHIPPED
WITH THE ASSEMBLY**

**USE
BUMPER
FOR
CONSOL
INSTALL**

Remote Status Panel displays the following:

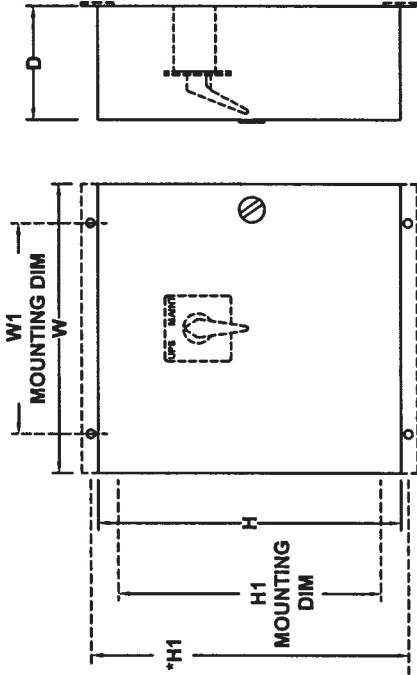
INPUT OK:	Input power is within acceptable range
INVERTER ON:	Inverter is on.
ON BYPASS:	Unit is on bypass mode.
ON BATT:	Unit is running from Battery.
LOW BATT:	Battery voltage is at low voltage before shutdown.
SUM ALARM:	Unit is on critical alarm such as: Over temperature, DC OV/UV.
HORN:	Audible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



DISPLAY PANEL

**REMOTE STATUS PANEL ASSEMBLY:
9100-1020-06: SINGLE PHASE
9100-1020-07: THREE PHASE**

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



PART NO.	AMP	ENCLOSURE SIZE "INCH"			
		W	H	D	H1
3000-044	55 AMP	14	16	8	*16.75
3000-045	110 AMP	14	16	10	*16.75

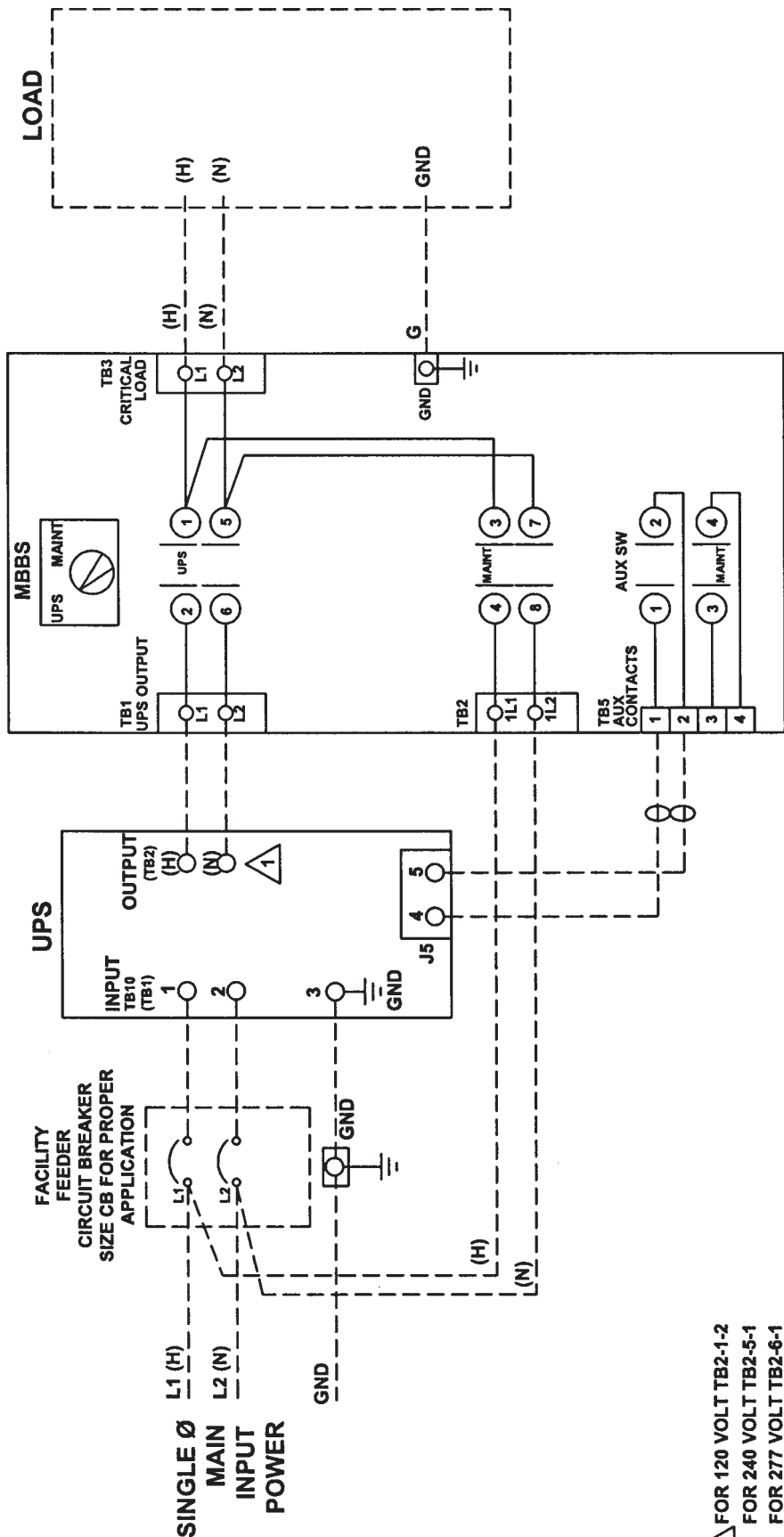
ENCLOSURE DIM'S

SELECTION CHART FOR SINGLE PHASE UPS

KVA	KVA	KVA	KVA	KVA	KVA	FOR WIRING DIAGRAM SEE DWG
3	5	7.5	10	15	20	
3000-044	3000-044	3000-044	3000-045	3000-045	3000-045	6001-032-11-S

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

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



- 1) FOR 120 VOLT TB2-1-2
FOR 240 VOLT TB2-5-1
FOR 277 VOLT TB2-6-1
- 2) L3 NOT USED

INCOMING POWER: TO 600 VOLTS AC, SINGLE PHASE, 60HZ
INTERNAL CABLE:
55A : #8 AWG (60A)
110A : #2 AWG (140A)
TERMINALS ARE SIZED FOR PROPER APPLICATION

PERFECT

POWER SYSTEMS

DRAWINGS:

1. APPROVED AS SUBMITTED:

SINGLE PHASE (WIRING DIAGRAM)

EXTERNAL WRAP AROUND

BY-PASS PANEL, 55AMP-110AMP

B

DWG

6001-032-31-S

REV

P1

CADD: SHERRI BHANSAVARI Date: 1/9/03

SCALE:

Sheet

1

of

1