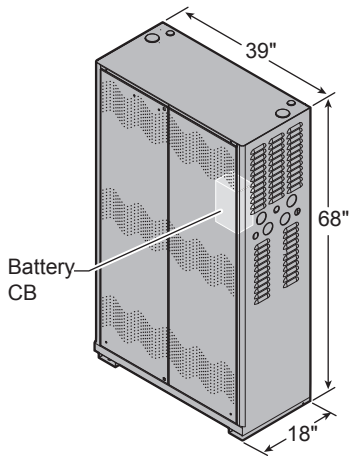


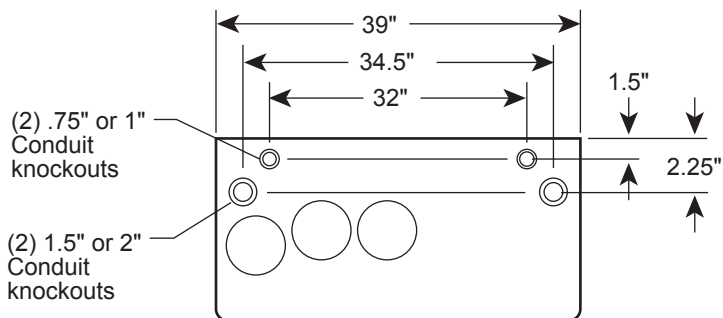
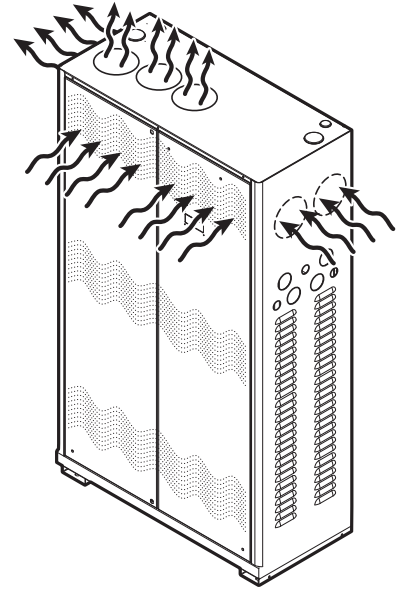
Battery Cabinet



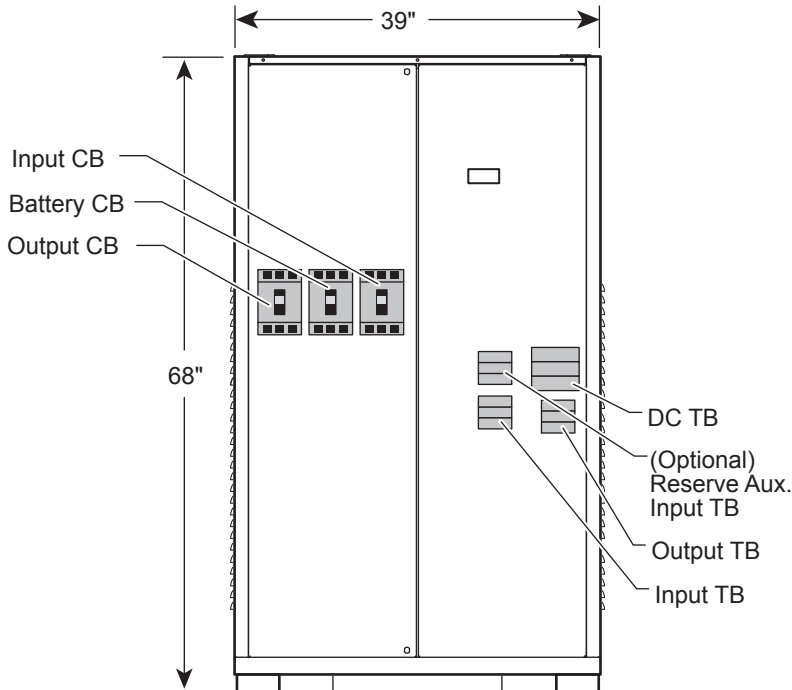
NOTE:

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.

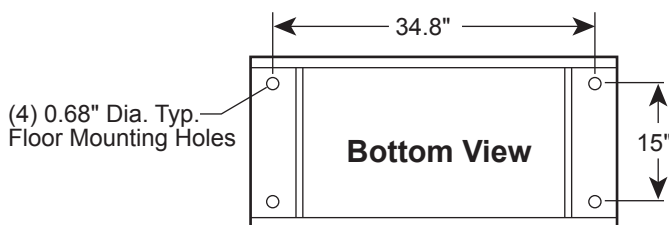
UPS Cabinet



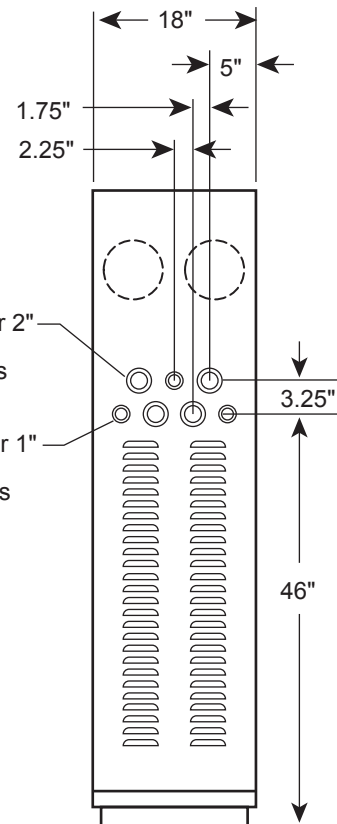
Top View



Front View



Bottom View

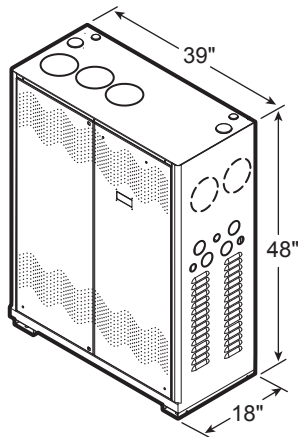


Side View
(Both Sides Typ.)

Drawn by: Chun Chi	Date: 2/1/06	UPS & Battery Cabinet Installations	
Chkd.:	Date:	1 Phase UPS with 90 Min Battery Backup	
Appvd.:	Date:		
		6001-033-01 Rev A	

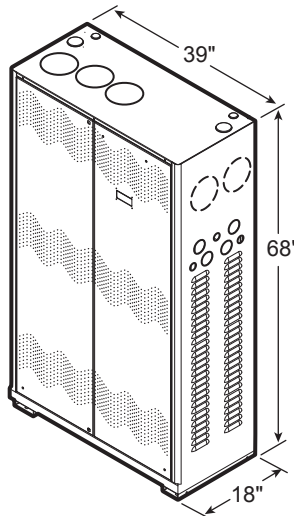
**3 kVA (2.1 kW)
3 kVA (3 kW)**

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.

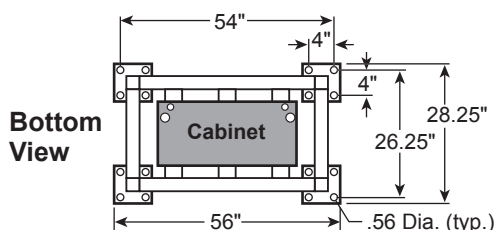
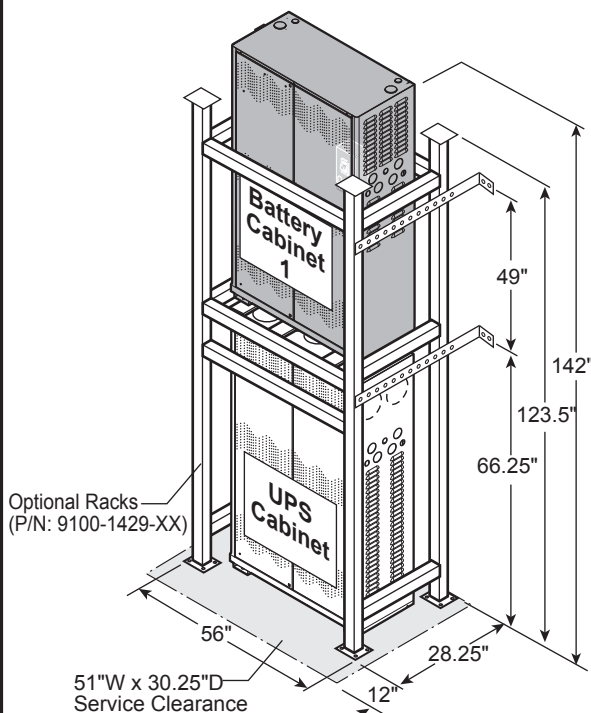


NOTE:

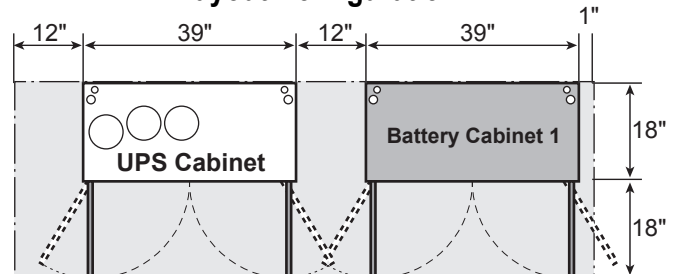
1. Service Clearance Areas are shaded.
2. Each battery cabinet includes 1 C/B.
3. Each battery cabinet have top and both sides conduit entry and same floor mounting hole dimensions as UPS cabinet. (See doc #: 6001-032-03 for detail).
4. Optional Seismic Brackets (P/N: 9100-1317-02) are available. When 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)**

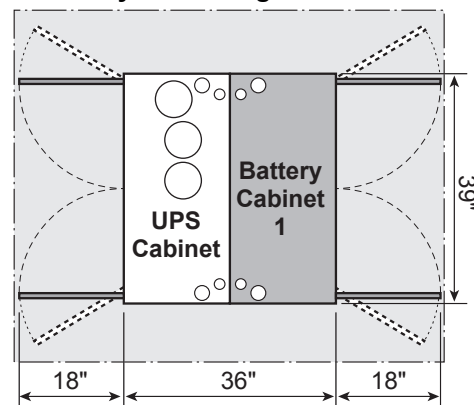
Layout Configuration 3



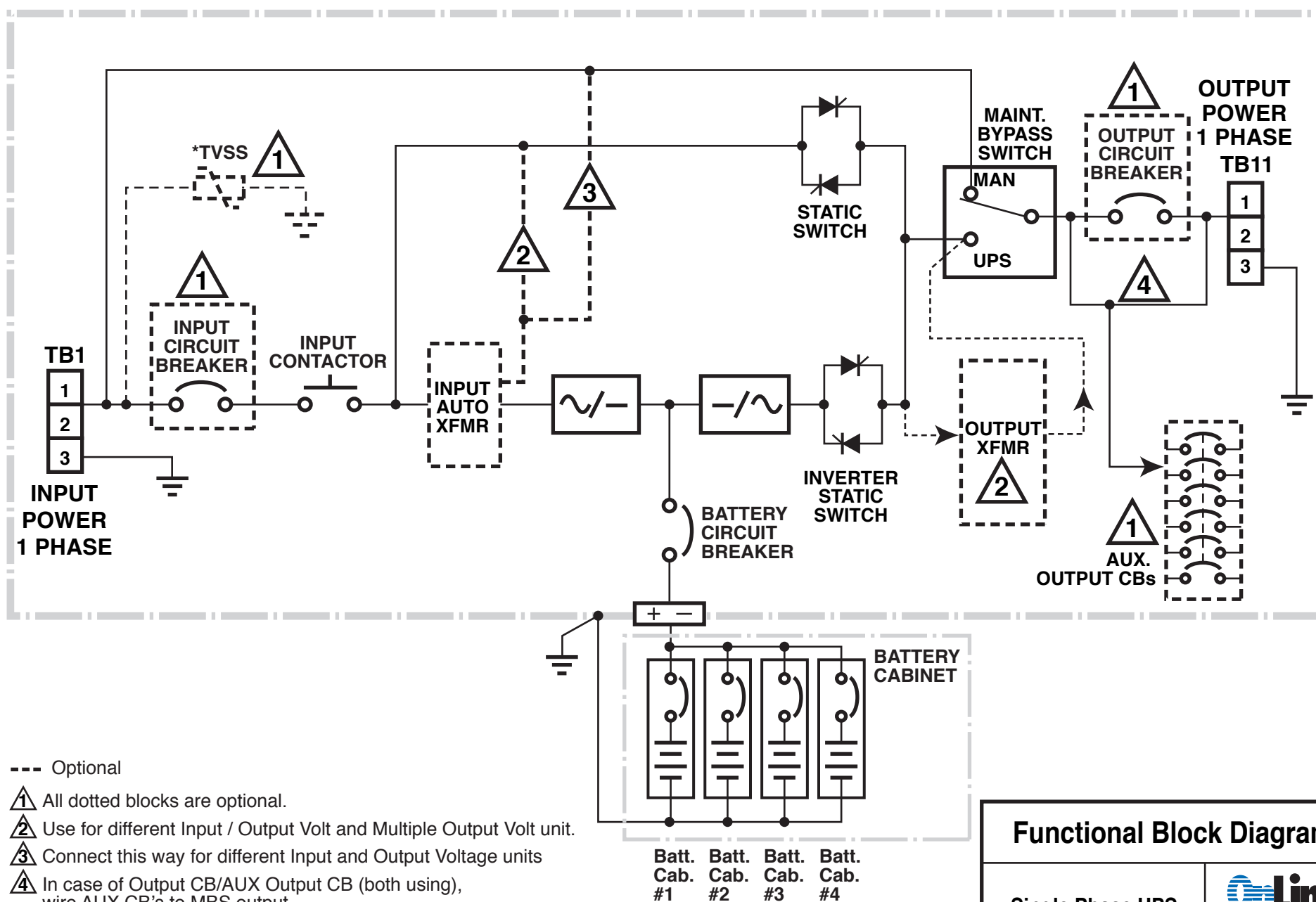
Layout Configuration 1



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 A	



Functional Block Diagram

Single Phase UPS



6001-033-03 Rev B

Remote Status Panel assembly as shown includes:

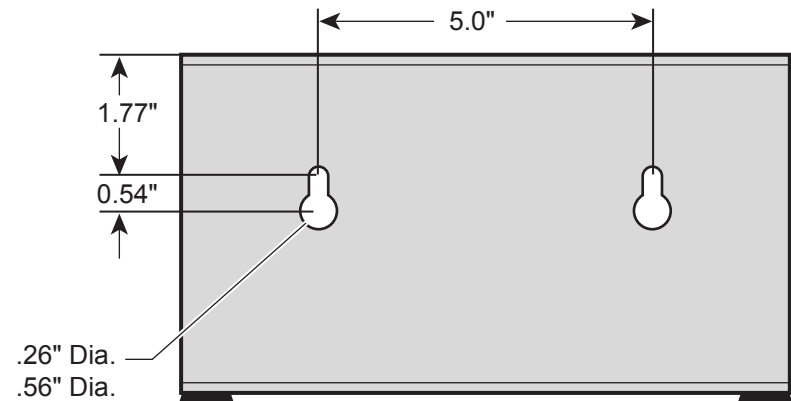
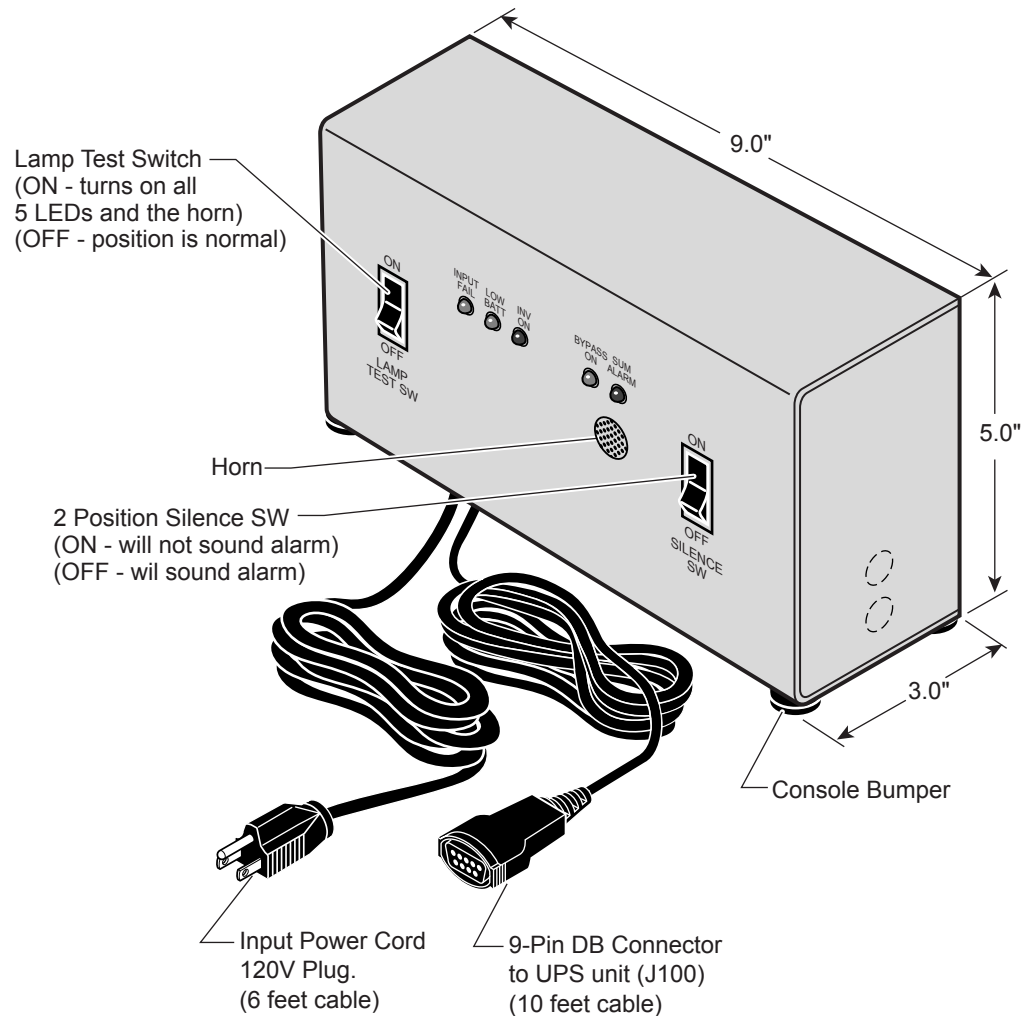
- -10 feet cable with DB Connector.
- -6 feet Power Cord with 120 Plug.
- Contact Factory for other cable length.

Available in console mount style.

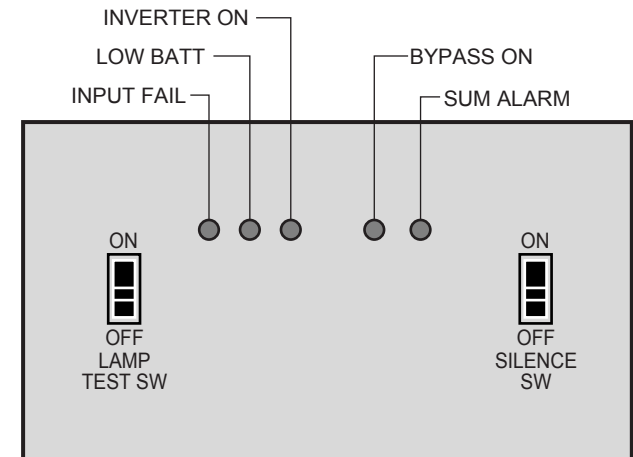
Finish in Black

P/N: 9100-1020-03 - Single Phase

P/N: 9100-1020-04 - Three Phase



REAR VIEW
(Wall Mounting)



FRONT VIEW

Drawn by: Chun Chi	Date: 7/14/05	UPS Remote Status Panel	
Chkd.:SHERRI S.	Date:7/15/05	Installation Drawing	 9100-1020-XX Rev A
Appvd.:H. BAIK	Date:7/15/05		
ECO#7789			

LOADS & DISTRIBUTION: CABINET

LIVE LOAD PER SHELF (BASED ON CLIENT SUPPLIED DATA) = wLL
 DEAD LOAD PER SHELF = wDL
 SEISMIC BASE SHEAR DETERMINED IN ACCORDANCE WITH SECTION 1630.2.1
 WHERE: $V = ((2.5 \times C_a \times I) / R) \times W_{total}$
 WHERE: $W_{total} = (wLL/1 + wDL)$
 SEISMIC ZONE = 4
 $C_a = 0.44 N_a$ WHERE $C_a = 0.44 N_a$ AND $N_a = 1$

$I = 1.00$
 SOIL COEF. = Sd
 R (LONGITUDINAL) = 5.6 (SECTION 2228.5.2)
 R (TRANSVERSE) = 4.4 (SECTION 2228.5.2)
 wDL = 20 LB
 $n = 1$
 DEPTH = 18 in
 SINGLE ROW UNITS

LONGITUDINAL DIRECTION:
 $V_{long} = [2.5 \times 0.44 \times 1 \times (2050/1 + 100)/5.6]/1.4$
 = 302 lb
 $F_i = V_{Wh}/\sum Wh$

TRANSVERSE DIRECTION:
 $V_{trans} = [2.5 \times 0.44 \times 1 \times (2050/1 + 100)/4.5]/1.4$
 = 384 lb
 $F_i = V_{Wh}/\sum Wh$

SEISMIC DISTRIBUTION:

LEVEL	h IN	WEIGHT LB	HEIGHT IN	W X H LB-IN	F _i (long) LB	F _i (trans) LB
1	3.0	410	3.0	1,230	4.9	8.2
2	17.0	410	20.0	8,200	32.6	41.5
3	17.0	410	37.0	15,170	60.3	76.8
4	17.0	410	54.0	22,140	88.1	112.1
5	17.0	410	71.0	29,110	115.8	147.3

71 IN

Σ =

75,850

302 LB

384 LB

TOTAL FRAME LOAD = 2150 LB

OVERTURNING ANALYSIS: CABINET

ANALYSIS OF OVERTURNING WILL BE BASED ON SECTION 2228.7.1

DEPTH = 18 in
 TOP LEVEL HEIGHT = 71 in
 FULLY LOADED:
 Total Shear = 384 lb
 $M_{ot} = \sum (F_i \times h_i) \times 1.15$
 = 23,233 in-lb
 $M_{st} = \sum (W_p + wDL) \times D/2$
 = (2050 lb + 100 lb) × 18 in/2
 = 19,350 in-lb
 $P_{uplift} = 1(M_{ot} - M_{st})/Depth$
 = (23233 - 19350)/18
 = 216 lb <= UPLIFT

TOP SHELF LOADED:
 Shear = 77 lb
 $M_{ot} = V_{top} \times h_t$
 = 77 lb × 71 in
 = 5,452 in-lb
 $M_{st} = (W_p + wDL) \times D/2$
 = (410 lb + 100 lb) × 18/2
 = 4,590 in-lb
 $P_{uplift} = 1(M_{ot} - M_{st})/Depth$
 = 48 lb <= UPLIFT

ANCHORS

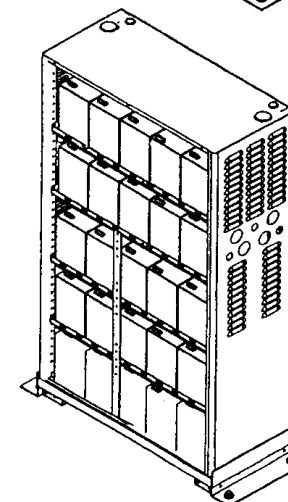
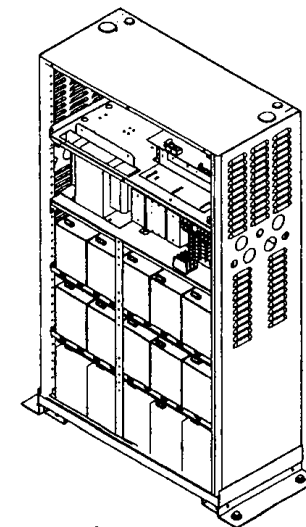
QUANTITY = 2
 PULLOUT = 1250 LB <== 33 1/3% INCREASE FOR SHORT TERM LOADING DUE TO SEISMIC
 SHEAR = 2453 LB <== 33 1/3% INCREASE FOR SHORT TERM LOADING DUE TO SEISMIC
 Eq. = $(P_u/P_t)^{1/3} + (V_u/V_t)^{1/3} \leq 1.0$

INTERACTION EQUATION:

FULLY LOADED = $(216 \text{ lb}/2500 \text{ lb})^{1/3} + (192 \text{ lb}/4906 \text{ lb})^{1/3} \leq 1.0$
 = 0.02 < 1.0 OK

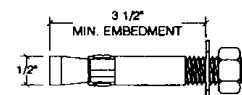
TOP SHELF LOADED = $(48 \text{ lb}/2500 \text{ lb})^{1/3} + (38 \text{ lb}/4906 \text{ lb})^{1/3} \leq 1.0$
 = 0.00 < 1.0 OK

USE (2) 1/2" x 3-1/2" MIN. EMBED. HILTI KWIK BOLT II (I.C.B.O. #4827) OF APPROVED EQUAL
 PULL OUT CAPACITY IS THAT OF WITHOUT SPECIAL INSPECTION.

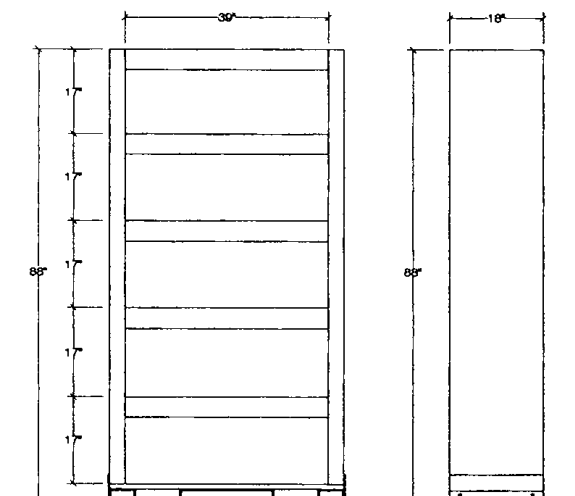
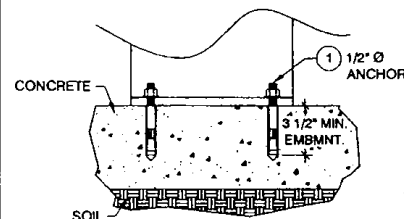


NOTES:

- DESIGNED PER CHAPTER 22, DIVISION X OF THE 2001 CBC & 2002 L.A. COUNTY BLDG. CODE. SEISMIC ZONE 4, $N_a = 1.0$.
- STORAGE CAPACITY: 410# PER LEVEL.
- ASTM A570 FOR SHAPE $F_y = 50,000$ PSI GRADE 50.
- ALL BOLTS A307 (UNLESS OTHERWISE NOTED).
- ANCHORS HILTI KWIK BOLT II, ICC #ESR-1355 OR APPROVED EQUAL.
- SPECIAL INSPECTION IS NOT REQUIRED FOR ANCHOR INSTALLATION.
- CONCRETE 5" THICK x 2,500 PSI.
- SOIL BEARING PRESSURE 1,000 PSF.



(2) REQ'D PER BASE PLATE



FRONT VIEW

SIDE VIEW

CABINET ELEVATIONS

GENERAL CONFIGURATION

1 ANCHOR

TYPICAL LOADING PROFILE

REV.	DATE	BY	DESCRIPTION
Δ	03/22/06	V.L.	ADD TYPICAL LOADING PROFILE

REGISTERED PROFESSIONAL ENGINEER
 SAL E. FATEEN
 No. 25698
 Exp. 12/31/06
 STATE OF CALIFORNIA

SEIZMIC
 EST. 1985

SEIZMIC MATERIAL HANDLING ENGINEERING
 161 Atlantic Street
 Pomona, California 91768
 Tel. (909) 869-0969 / (909) 869-0981

TYPE: ON LINE PWR	DRAWN BY: L.E.	DATE: 7/15/04
CALIFORNIA CONTRACTORS LICENSE NO. 006374	LAST REV. BY: V.L.	DATE: 03/22/06
APPROVED BY: SAL E. FATEEN		SCALE: N.T.S.

CABINET DETAIL	
ADDRESS: ON LINE POWERS, INC. 5940 TRIUMPH STREET COMMERCE, CA 90040	DRAWING NUMBER: 04-0959A