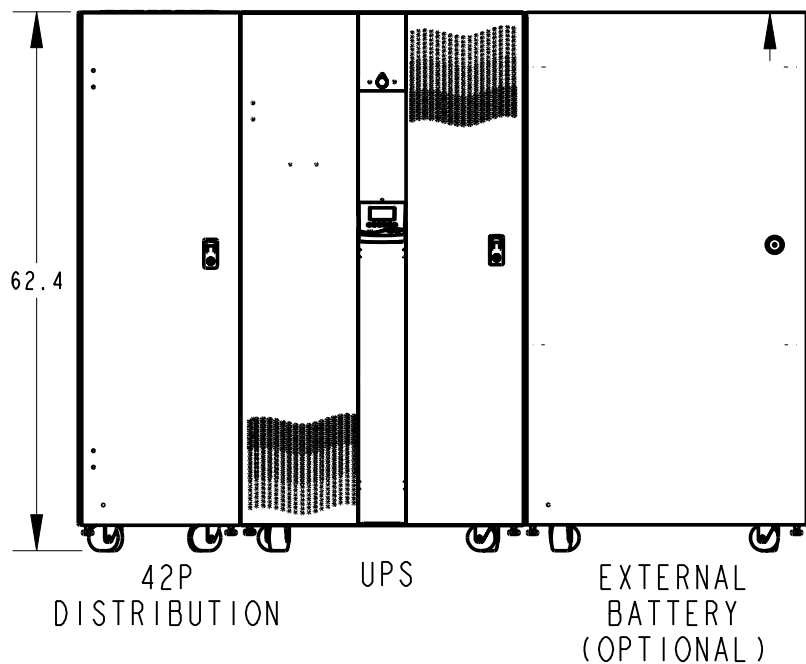
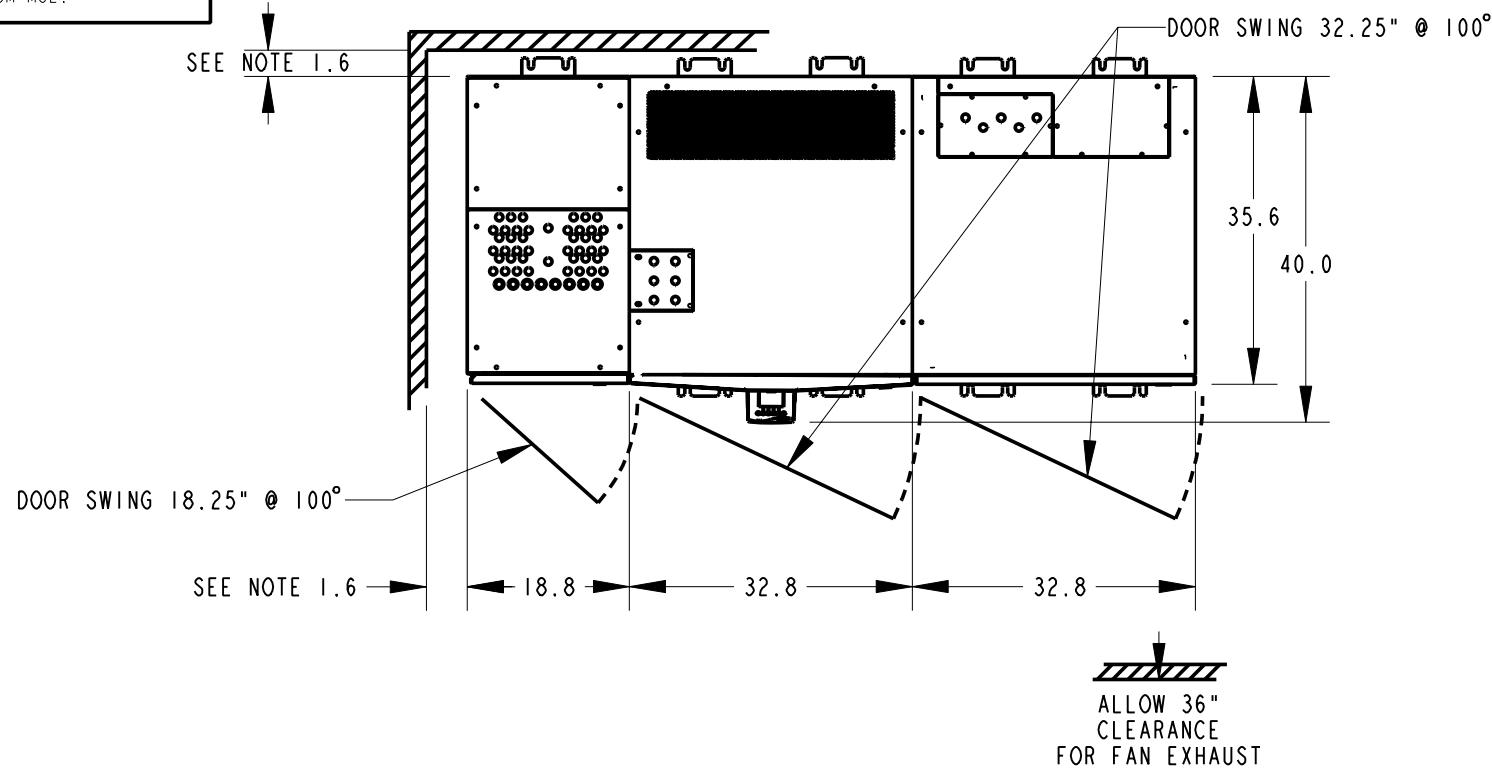


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SYSTEM DIMENSIONS



REVISIONS				
ZONE	REV	DESCRIPTION	DATE	APPROVED
	A00	RELEASED PER ECN-003817	3-18-04	I. KENNEDY
	B00	RELEASED PER ECN-004297	12-22-05	B. K.
	B01	REVISED CHART; SEE ECN-004992	23OCT06	JRS

TABLE I

	UPS CABINET WEIGHTS (LBS.)			
	10-15KVA		20-30KVA	
	W/INPUT XFMR	NO INPUT XFMR	W/INPUT XFMR	NO INPUT XFMR
NO BATTERIES	1032	742	1185	785
LEVEL 1 BATTERY	1322	1032	1475	1075
LEVEL 2 BATTERY	1549/1716	1302/1469	1702/1869	1302/1469
LEVEL 3 BATTERY	1832/1892	1542/1602	1832/1892	1585/1645
LEVEL 4 BATTERY	2182/2412	1935/2165	2395/2565	1935/2165

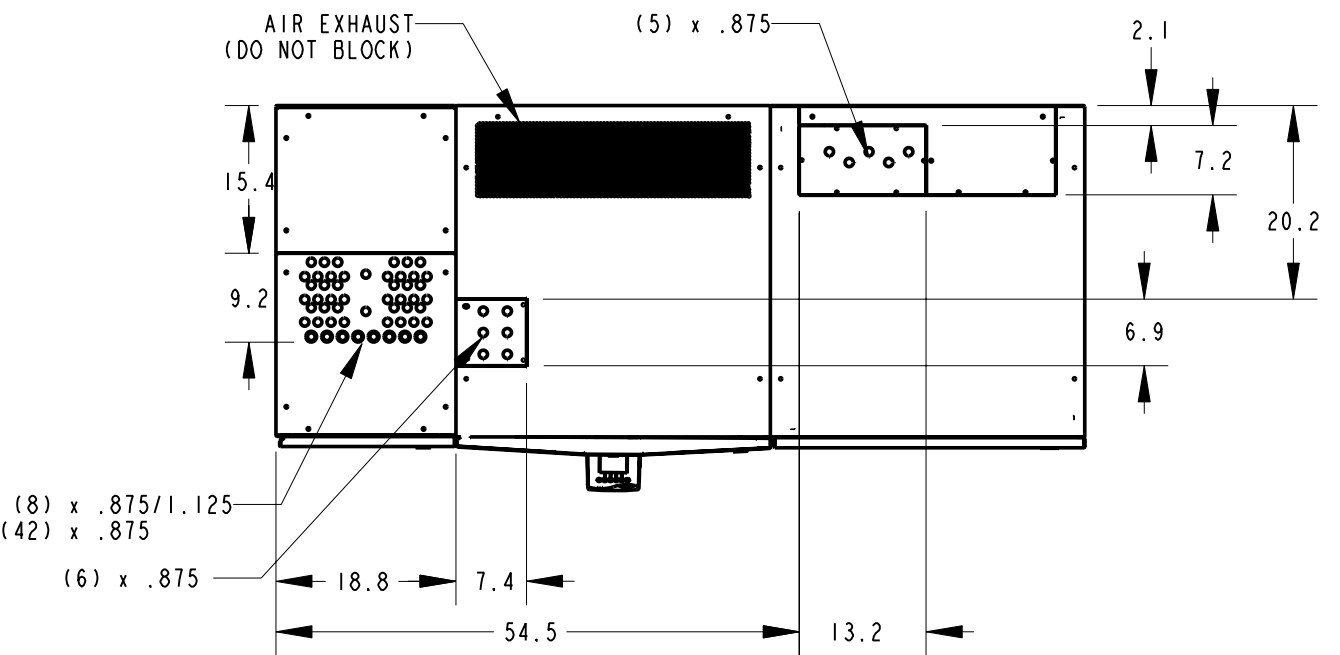
- 1.1. DIMENSION FORMAT IS IN INCHES.
- 1.2. COLOR: MGE LIGHT GRAY.
- 1.3. CABINET WEIGHTS: UPS: SEE TABLE I, 42P DISTRIBUTION: 180 LBS. EXTERNAL BATTERY: 1940 LBS. MIN/2723 LBS. MAX.
- 1.4. RECOMMENDED OPERATING RANGE: 60°F (15°C) TO 77°F (25°C) REFER TO SPECS FOR HIGHER TEMPERATURE. HEAT REJECTION FROM TOP OF CABINETS.
- 1.5. IF STORING UPS FOR MORE THAN THREE MONTHS, UPS SHOULD BE POWERED UP FOR 8 HOURS MIN. EVERY THREE MONTHS TO PREVENT DAMAGE TO BATTERIES.
- 1.6. IF INSTALLED WITH SEISMIC BRACKETS, 4.5" CLEARANCE IS REQUIRED.

NOTES: UNLESS OTHERWISE SPECIFIED.

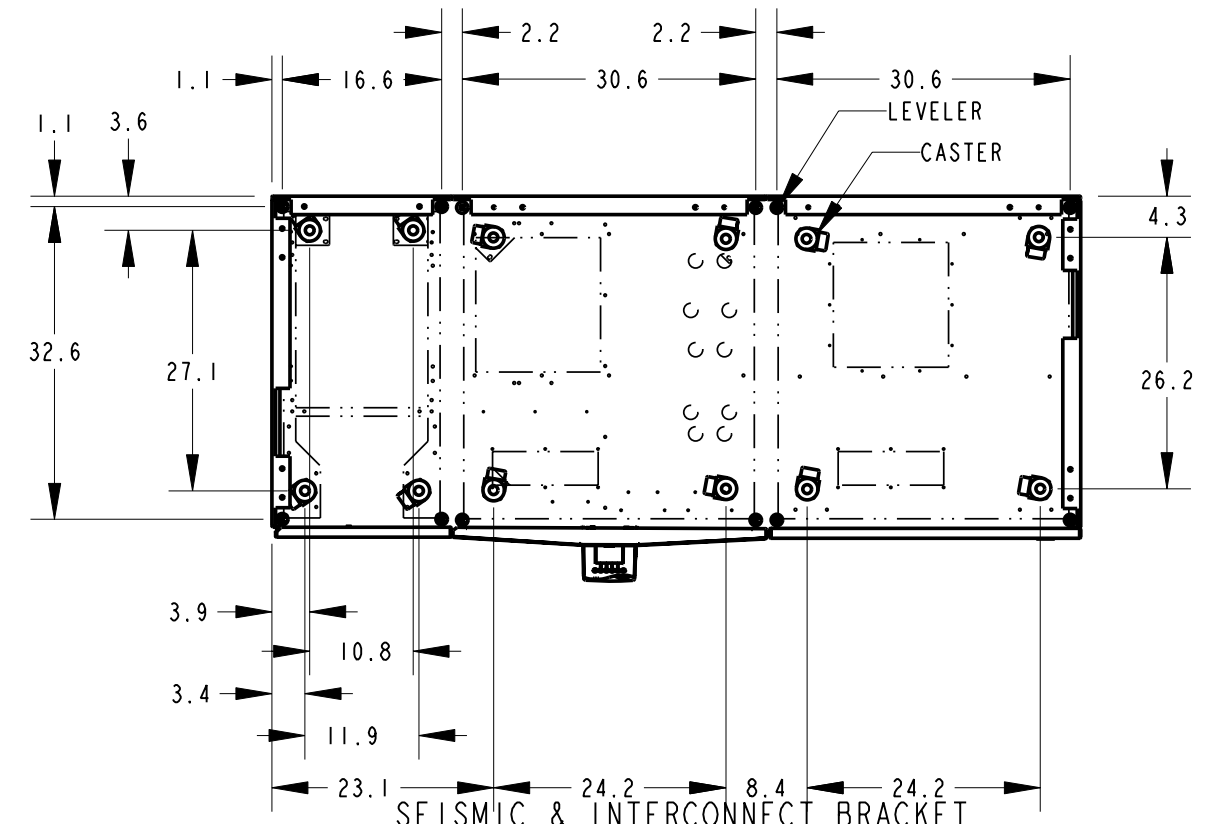
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES ARE: DECIMALS .XX ±.03 .XXX ±.010 ANGLES ± 1/2°	CONTRACT NO.		MGE UPS Systems, Inc. 1660 Scenic Avenue Costa Mesa, CA 92626	
	APPROVALS	DATE		
MATERIAL	DRAWN	H. DO	12-9-03	INSTALLATION DRAWING 10-30KVA UPS AND 42POLE DISTRIBUTION
FINISH	CHECKED	I. K.	12-9-03	
	MFG ENG			
	ISSUED	H. DO	12-9-03	SIZE B FSCM NO. 9L985 DWG. NO. 90-170804-00 REV. B01
SCALE 0.045		90-17080X-XX.1		SHEET 1 OF 3

4 3 2 1

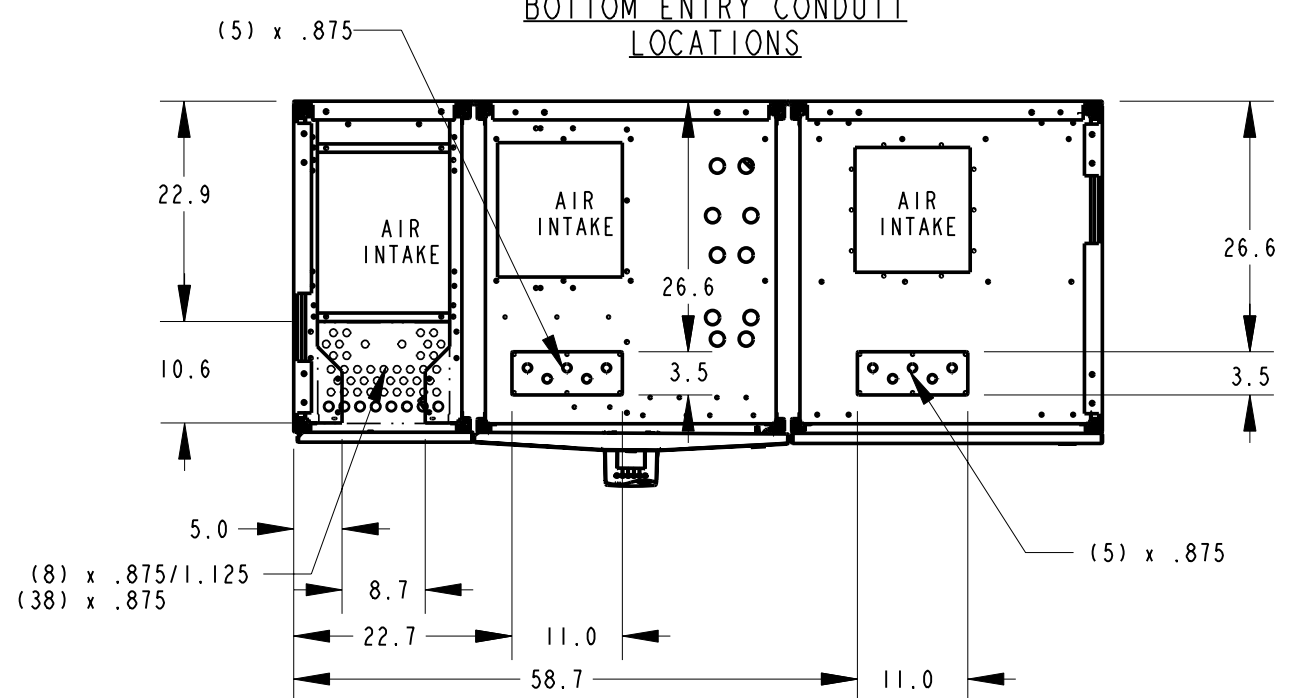
TOP ENTRY CONDUIT LOCATIONS



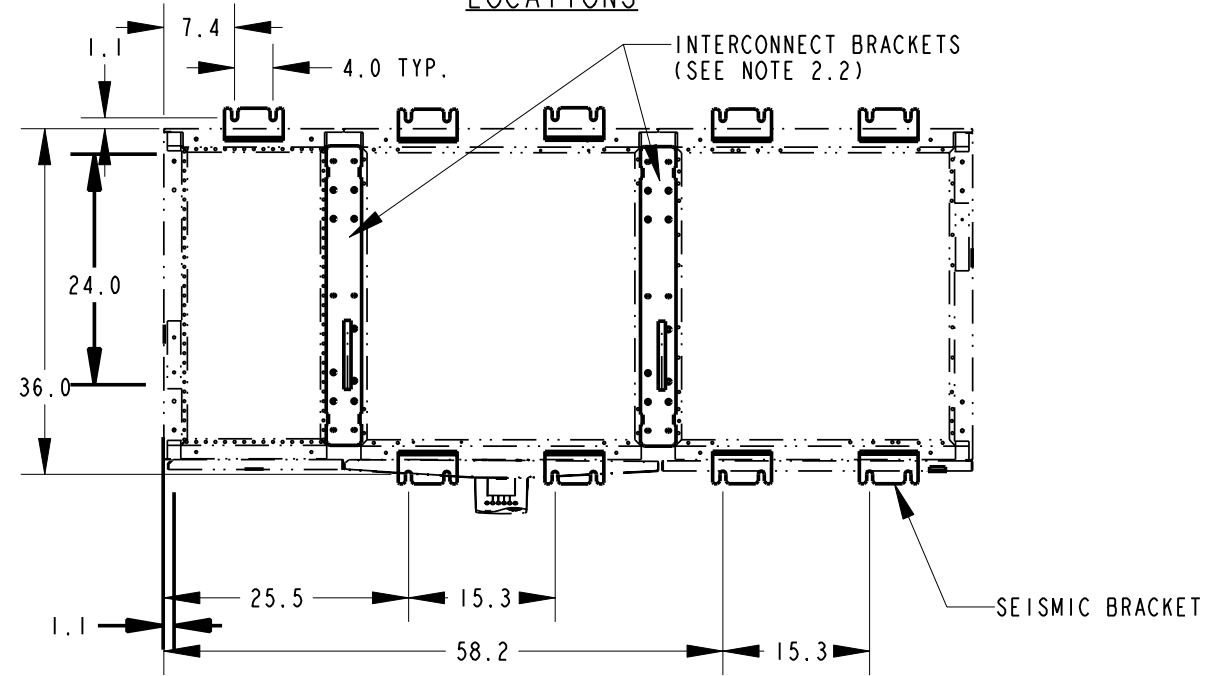
CASTER & LEVELER LOCATIONS



BOTTOM ENTRY CONDUIT LOCATIONS



SEISMIC & INTERCONNECT BRACKET LOCATIONS



2.1. CONDUIT PLATE INSTALLATION INSTRUCTIONS:
 REMOVE SCREWS FROM CONDUIT PLATE. CONDUIT PLATE MAY NOW BE REMOVED TO PUNCH HOLES.
 REINSTALL CONDUIT PLATE AND SECURE WITH SCREWS.

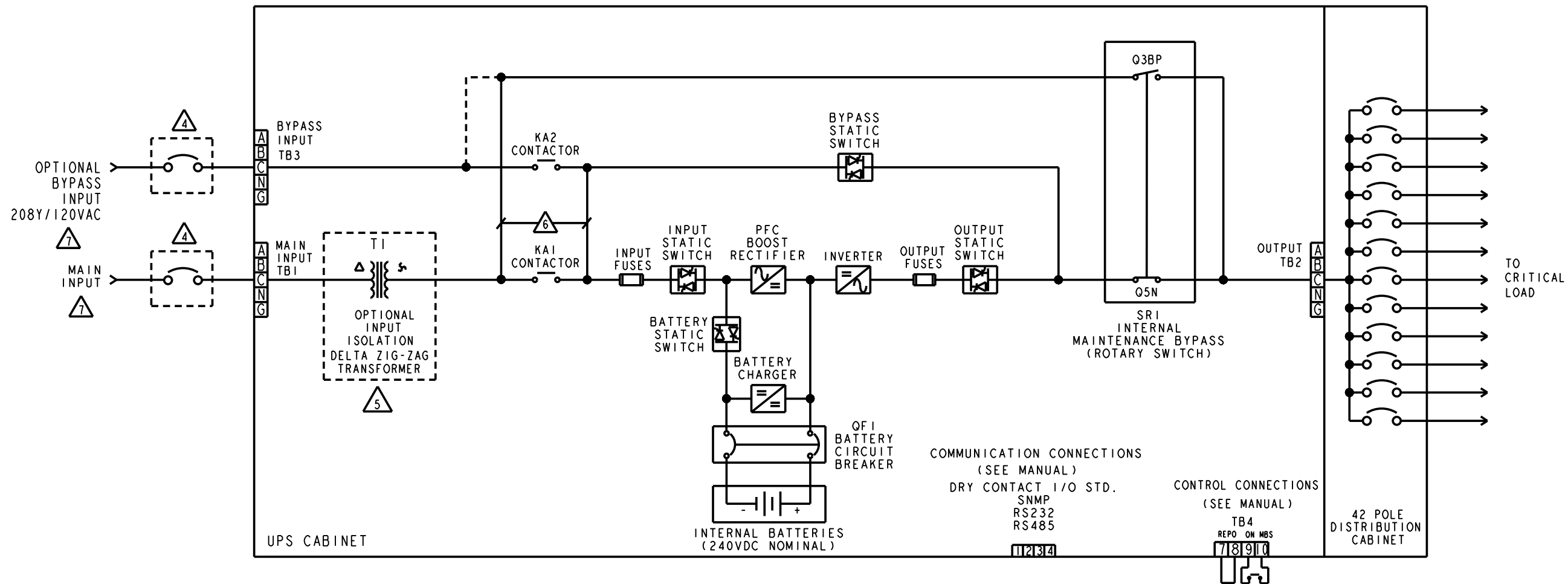
2.2. INTERCONNECT BRACKETS INSTALLATION INSTRUCTIONS:
 ALIGN CABINETS NEXT TO EACH OTHER. REMOVE THE TOP PANELS, PLACE BRACKET OVER TOP
 TWO FRAME RAILS AND SECURE WITH SIX 10-32 SCREWS. PLACE TOP PANELS BACK AND SECURE
 WITH SUPPLIED HARDWARE.

NOTES: UNLESS OTHERWISE SPECIFIED.

SIZE B	FSCM NO. 9L985	DWG. NO. 90-170804-00	REV. B01
SCALE 0.050		90-17080X-XX.1	SHEET 2 OF 3

4 3 2 1

UPS SYSTEM WITH DISTRIBUTION SINGLE LINE



NOMINAL INPUT AND OUTPUT CURRENTS (A)

Vin/Vout	10KVA/8KW		15KVA/12KW		20KVA/16KW		30KVA/24KW	
	I (in)	I (out)	I (in)	I (out)	I (in)	I (out)	I (in)	I (out)
208/208	26	28	39	42	52	56	78	63
220/220	26	26	39	39	53	53	79	79
480/208	12	28	18	42	23	56	35	83
600/208	10	28	14	42	19	56	29	83

INPUT CIRCUIT BREAKER RATING

	10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW
208-220	40A	60A	70A	100A
480	20A	30A	40A	50A
600	20A	20A	30A	40A

MAXIMUM HEAT REJECTION (BTU'S)

10KVA/8KW	15KVA/12KW	20KVA/16KW	30KVA/24KW
4,100	6,100	8,200	12,200

ELECTRICAL SPECIFICATIONS

Frequency (in/out) 60Hz (+8% / -25%)
 Input Phase Rotation A,B,C, Clockwise
 Input PF > 0.98
 Input THD < 3%

Input Voltage { 208,220, (±15%) 3 Phase, 4W, N + G
 480,600, (±15%) 3 Phase, 3W, N + G

Nominal DC Voltage (Float) 240 VDC (272VDC) Float
 Min. DC Voltage 200 VDC
 Max. DC Current 60 ADC (10-15kVA), 120 ADC (20-30KVA)
 Internal Battery Disconnect (QF1) 63 A (10-15KVA), 125 A (20-30KVA)
 Internal Maintenance Bypass Switch (A) 55 A (10-15KVA), 100 A (20-30KVA)

- FOLLOW ALL APPLICABLE NEC AND LOCAL ELECTRICAL CODES.
- ALL EXTERNAL WIRING BY OTHERS.
- POWER AND CONTROL CABLES SHALL BE IN SEPARATE CONDUITS.
- UPSTREAM PROTECTIVE DEVICE REQUIRED PROVIDED BY OTHERS.
- OPTIONAL FOR 208VAC OP 220 INPUT. REQUIRED FOR 480VAC AND 600VAC.
- NOT PRESENT WITH SEPARATE BYPASS OPTION.
- NOT USED FOR 480V AND 600V.

NOTES: UNLESS OTHERWISE SPECIFIED.

SIZE B	FSCM NO. 9L985	DWG. NO. 90-170804-00	REV. B01
SCALE 0.031		90-17080X-XX.1	SHEET 3 OF 3