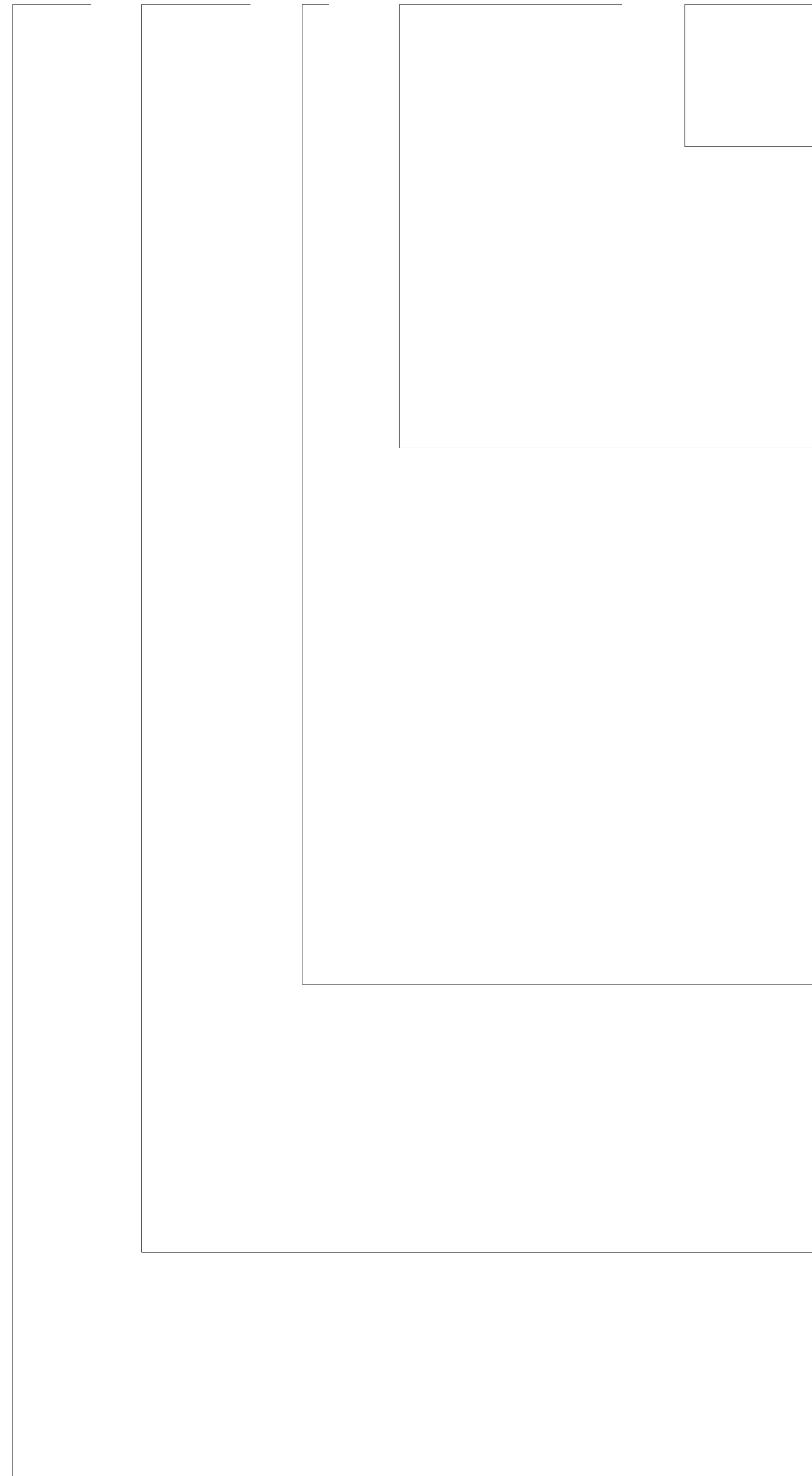


PROPOSED MODEL NUMBER

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

F L P - 0 2 0 T - 1 - 4 Y - 4 Y - X X X



SEPARATE BYPASS INPUT	
BLANK	SINGLE INPUT
2DB	208V DELTA INPUT: MAY BE PROVIDED ONLY ON MODELS WITH "2D-2Y"
2YB	208/120V WYE INPUT. MAY BE PROVIDED ONLY ON MODELS WITH "2Y-4Y"
4DB	480V DELTA INPUT. MAY BE PROVIDED ONLY ON MODELS WITH "4D-2Y"
4YB	480/277V WYE INPUT. MAY BE PROVIDED ONLY ON MODELS WITH "4Y-2Y"


INTERNAL INPUT/OUTPUT TRANSFORMER OR INTERNAL BATTERY #2	
BLANK	BATTERY STRING 2 AND TRANSFORMER NOT PROVIDED
0	BATTERY SHELF PROVIDED FOR STRING 2, BATTERIES AND TRAYS NOT INCLUDED
1	90W/23AH BATTERY STRING 2 PROVIDED
2	51W/13AH BATTERY STRING 2 PROVIDED
3	34W/8AH BATTERY STRING 2 PROVIDED
2D-2Y	208V DELTA INPUT; 208/120V WYE OUTPUT
2D-4Y	208V DELTA INPUT; 480/277V WYE OUTPUT
2Y-4Y	208/120 WYE INPUT; 480/277V WYE OUTPUT
4D-2Y	480V DELTA INPUT; 208/120V WYE OUTPUT
4D-4Y	480V DELTA INPUT; 480/277V WYE OUTPUT
4Y-2Y	480/277V WYE INPUT; 208/120V WYE OUTPUT
4Y-4Y	480/277V DELTA INPUT; 480/277V WYE OUTPUT

INTERNAL BATTERY STRING #1	
0	BATTERY SHELF PROVIDED, BUT BATTERIES AND BATTERY TRAY NOT INCLUDED
1	90W/23AH BATTERY STRING
2	51W/13AH BATTERY STRING
3	34W/8AH BATTERY STRING

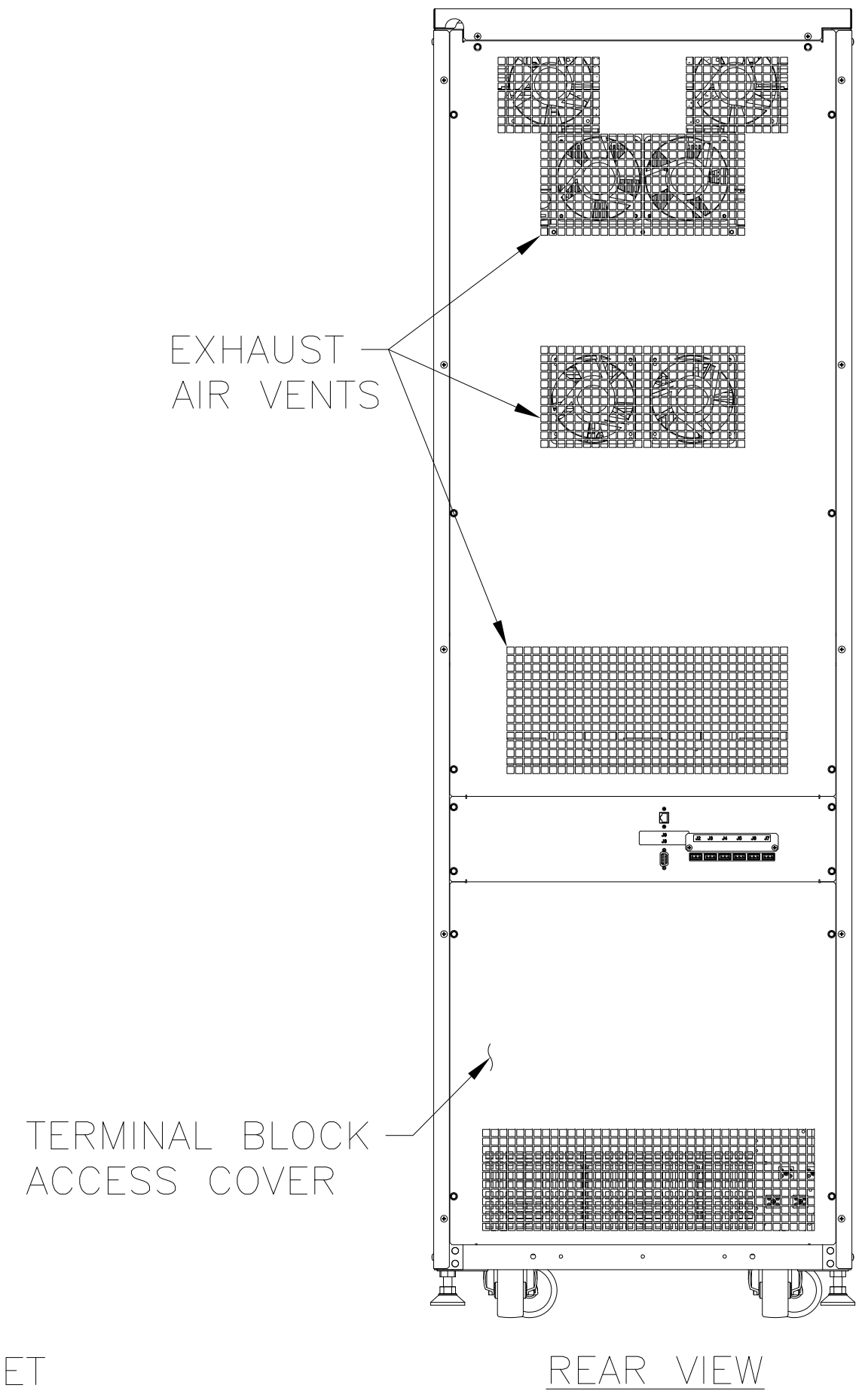
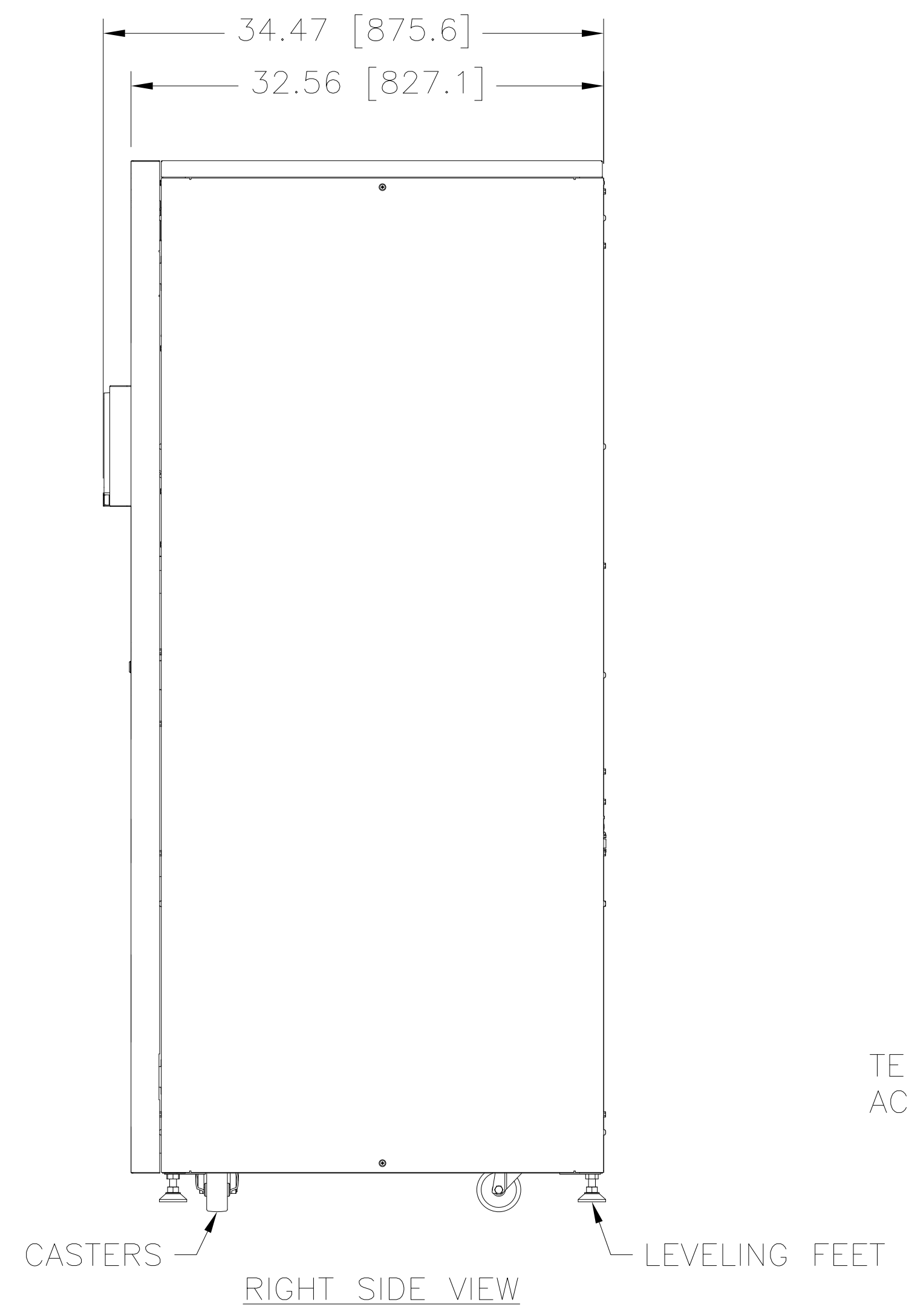
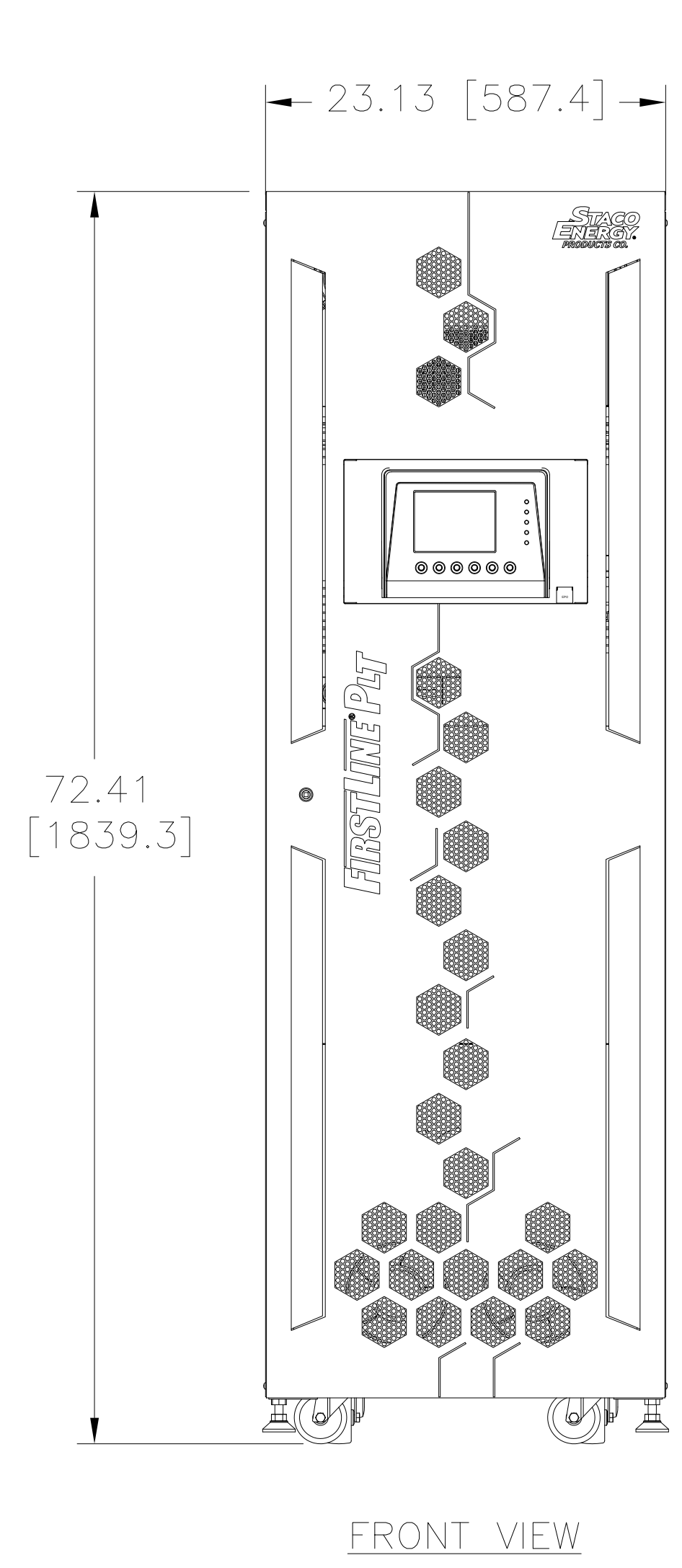
KVA AND CABINET TYPE	
020T	20 KVA TALL
015T	15 KVA TALL
010T	10 KVA TALL

SERIES	
FLP	FIRSTLINE PL

DWG. SIZE	D			DWG. NO.	096-6050		
REVISIONS							
SYM.	E.C.O.	DATE	APVD.				
A	28283	10/1/15		UPDATES AND REVISIONS			
B	28288	10/13/15		WAS PL, ADD FIRST PAGE & UPDATED SPECS.			
C	28457	4/12/16		ADDED THIRD WEIGHT NOTE			
D	28532	6/29/16		UPDATES & REVISIONS			
E	28771	3/2/17		UPDATED WEIGHTS			
F	28799	4/3/17		MINOR CHANGES			

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±		UNITS		TITLE: SPECIFICATION CONTROL DRAWING				 <p>A Components Corporation of America Company 301 Gessie Boulevard Dayton, Ohio 45403 USA</p>					
DECIMALS	HOLES	ANGLES	DRAFT	IN [mm]		FIRSTLINE PLT							
.XX	.12	1°	1-1/2°			UNINTERRUPTIBLE POWER SUPPLY							
.XXX	.005												
MATERIAL:				ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY		FIRST USED ON		DO NOT SCALE DWG.			
<small>The information and design disclosed herein was originated by and is the property of STACO ENERGY PRODUCTS CO., which reserves all patent, proprietary, design, manufacturing, reproduction, use and sale rights thereto, and to any article disclosed therein except to the extent rights are expressly granted to others. The foregoing does not apply to vendor proprietary parts.</small>						SLB		10/22/15					
						CHECKER		B.FOX		10/26/15		WEIGHT APPROX.	
						ENGINEER		B.FOX		10/26/15		SCALE 1/8	
								CASE CODE 83008		DWG. NO. 096-6050			
								SHEET 1 OF 5					

REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28283	10/1/15	
UPDATES AND REVISIONS			
B	28288	10/13/15	
SEE SHEET 1			
C	28457	4/12/16	
SEE SHEET 1			
D	28532	6/29/16	
SEE SHEET 1			
E	28771	3/2/17	
SEE SHEET 1			



SUMMARY OF EQUIPMENT

THE FIRSTLINE PLT UNINTERRUPTIBLE POWER SUPPLY (UPS) IS A TRUE ON-LINE, DOUBLE CONVERSION, PARALLELABLE, THREE PHASE SYSTEM THAT CAN PREVENT THE LOSS OF ELECTRONIC INFORMATION AND MINIMIZE EQUIPMENT DOWN TIME.

THE FIRSTLINE PLT UPS CONSTANTLY MONITORS THE INCOMING ELECTRICAL POWER AND PROTECTS THE CONNECTED LOAD BY REMOVING VOLTAGE SPIKES, SAGS, TRANSIENTS, AND OTHER DAMAGING IRREGULARITIES THAT ARE COMMON IN COMMERCIAL UTILITY POWER. THE UPS SUPPLIES THE CLEAN, CONSISTENT POWER THAT SENSITIVE ELECTRONIC EQUIPMENT REQUIRES FOR RELIABLE OPERATION. DURING BROWNOUTS, BLACKOUTS AND OTHER POWER INTERRUPTIONS, THE BATTERIES PROVIDE EMERGENCY POWER TO SAFEGUARD OPERATION.

THE FRONT DISPLAY PANEL PROVIDES ACCESS TO DETAILED INFORMATION REGARDING THE STATUS OF THE UTILITY, LOAD AND FIRSTLINE PLT UPS.

THE BLOCK DIAGRAM BELOW SHOWS THE MAIN FUNCTIONAL SUBASSEMBLIES OF THE FIRSTLINE PLT UPS. THE AC THREE PHASE UTILITY SUPPLY IS RECTIFIED TO PROVIDE DIRECT CURRENT, THE INVERTER WHICH PROVIDES THE THREE PHASE OUTPUT, AND ELECTRONIC STATIC SWITCH.

THE INVERTER HAS ITS OWN INTERNAL CONTROL TO STABILIZE THE OUTPUT FREQUENCY IF THE UTILITY FREQUENCY IS OUT OF LIMITS. THE ELECTRONIC STATIC SWITCH SWITCHES THE OUTPUT FROM THE INVERTER TO THE UTILITY, WITHOUT INTERRUPTION, TO MEET ANY LOAD CURRENT SURGES.

ENVIRONMENTAL

OPERATING TEMPERATURE: 0°C TO 40°C  
 ALTITUDE: 0-3300 FEET [1000 METERS] (WITHOUT DERATING)  
 RELATIVE HUMIDITY: 0-95%, NON-CONDENSING

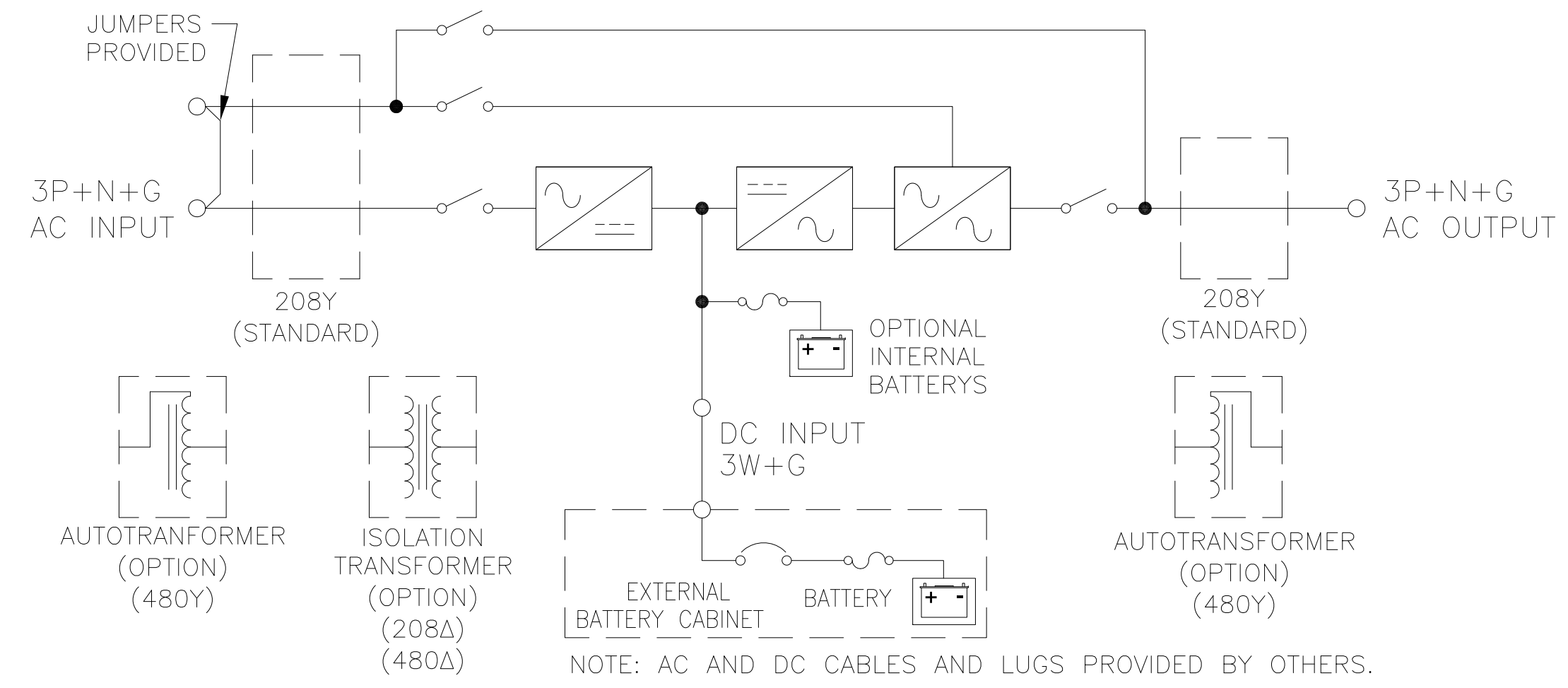
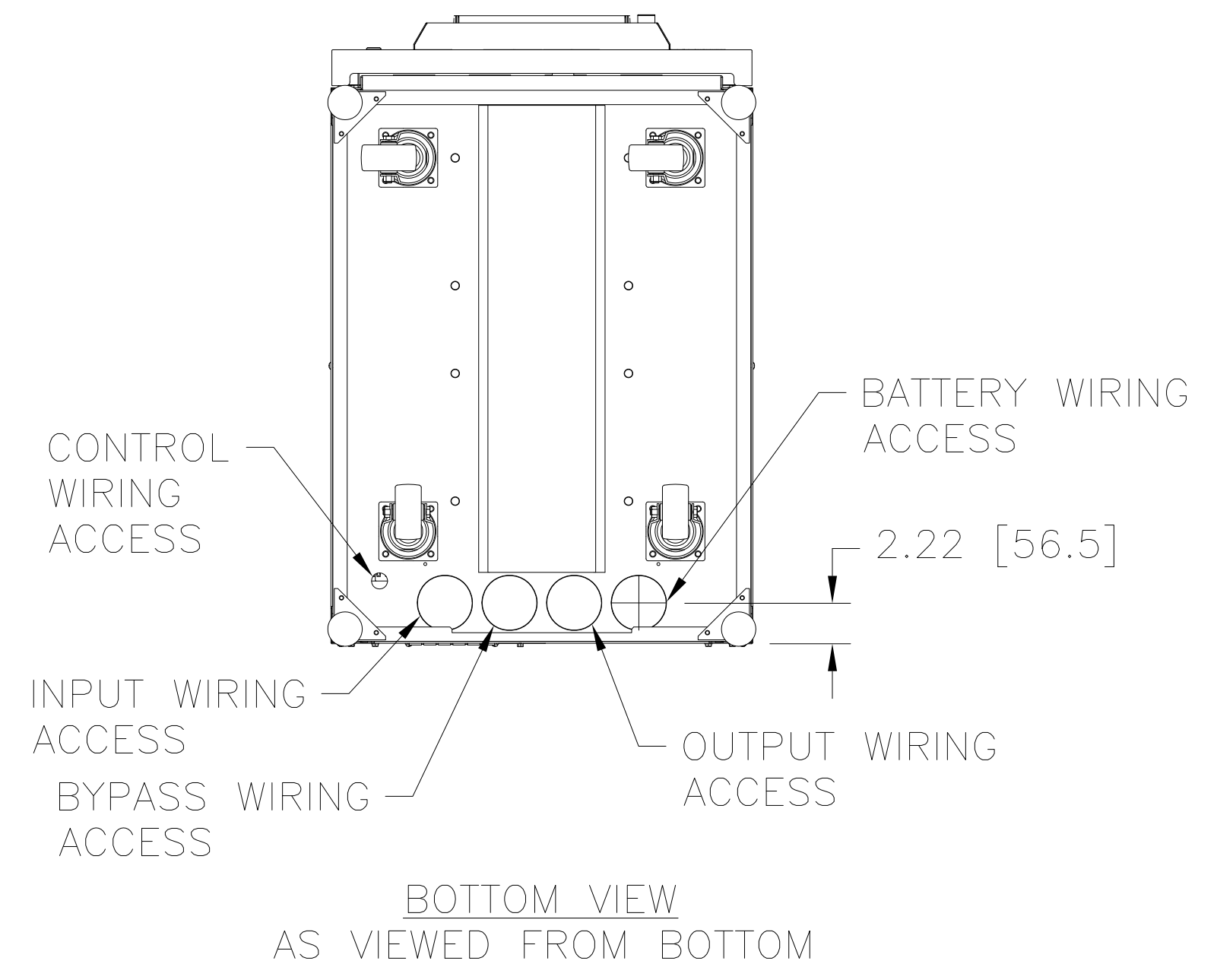
SERVICE/VENTILATION CLEARANCES

FROM TOP OF CABINET: 18.00 [457.2]  
 FROM FRONT OF CABINET: 36.00 [914.4]  
 FROM REAR OF CABINET: 8.00 [203.2]\*

UL LISTED TO UL 1778, FILE NO.: E191175

NOTES:

REAR CLEARANCE CAN BE REDUCED TO 3" [76.2] IF THERE IS AT LEAST 4" [101.6] CLEARANCE ON BOTH SIDES.

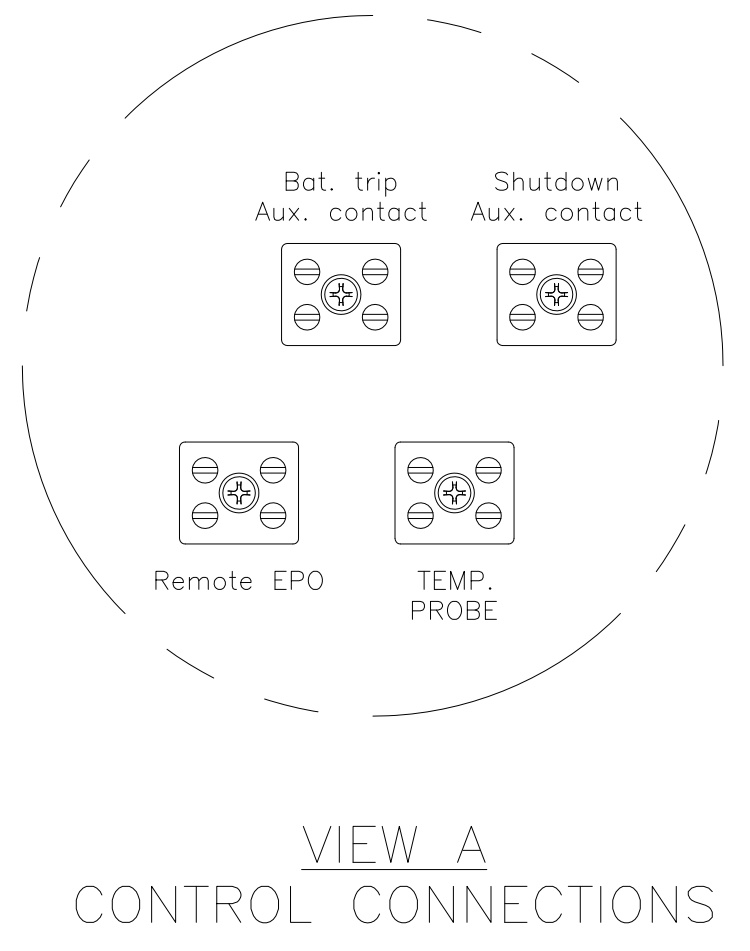
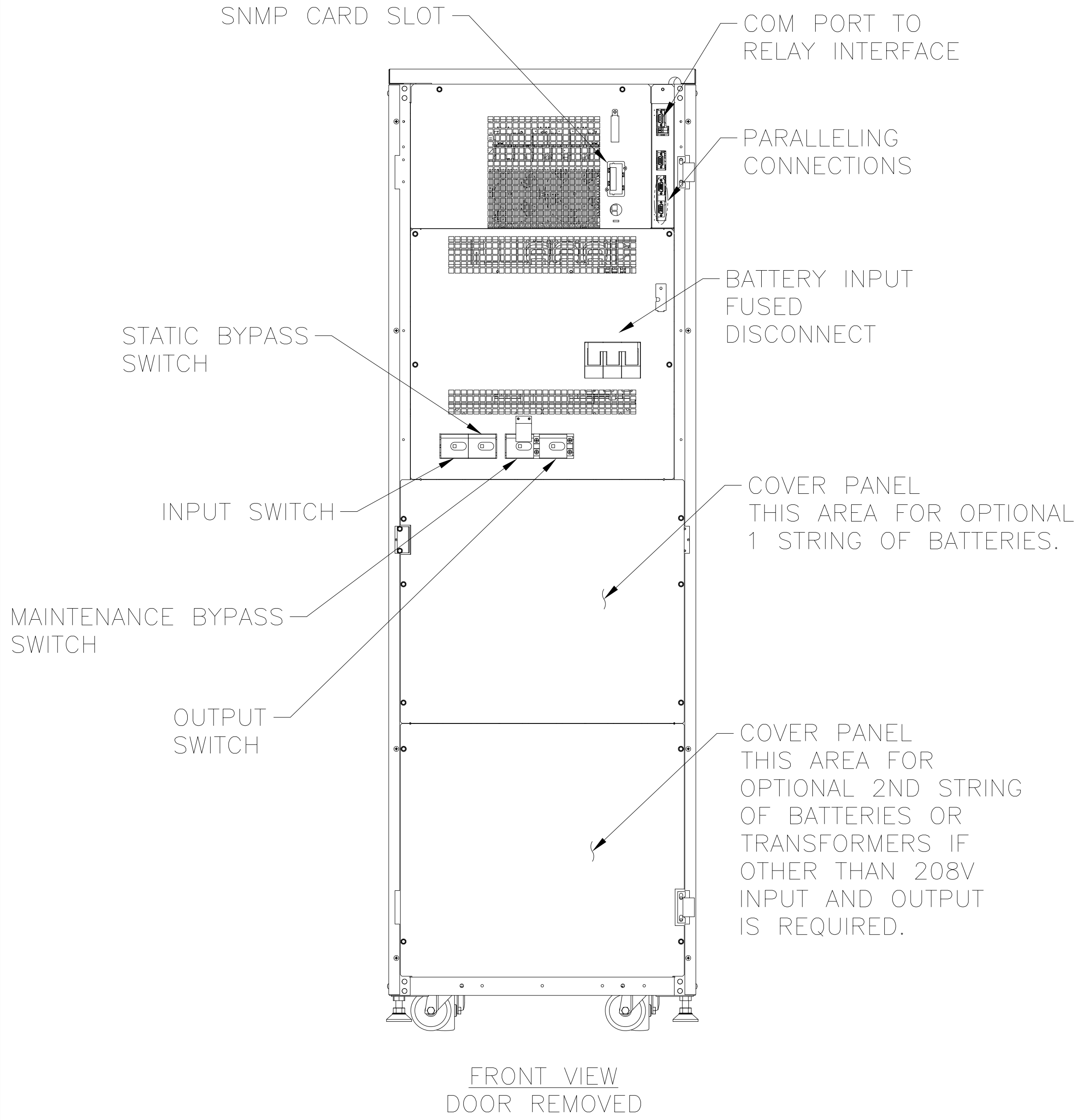


UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±		UNITS		TITLE:	
DECIMALS	HOLES	ANGLES	DRAFT	SPECIFICATION CONTROL DRAWING	
XX .005	12 .005	1°	1-1/2°	FIRSTLINE PLT UNINTERRUPTIBLE POWER SUPPLY	
MATERIAL:				ALL DIMENSIONS APPLY AFTER PLATING	
DRAWN BY: S.A. SMITH		DATE: 7/31/15		FIRST USED ON	
CHECKER: B. FOX		DATE: 9/2/15		DO NOT SCALE DWG.	
ENGINEER: B. FOX		DATE: 9/2/15		WEIGHT APPROX. CASE CODE 83008	
		SCALE: 1/8		SHEET 2 OF 5	
				DWG. NO. 096-6050	

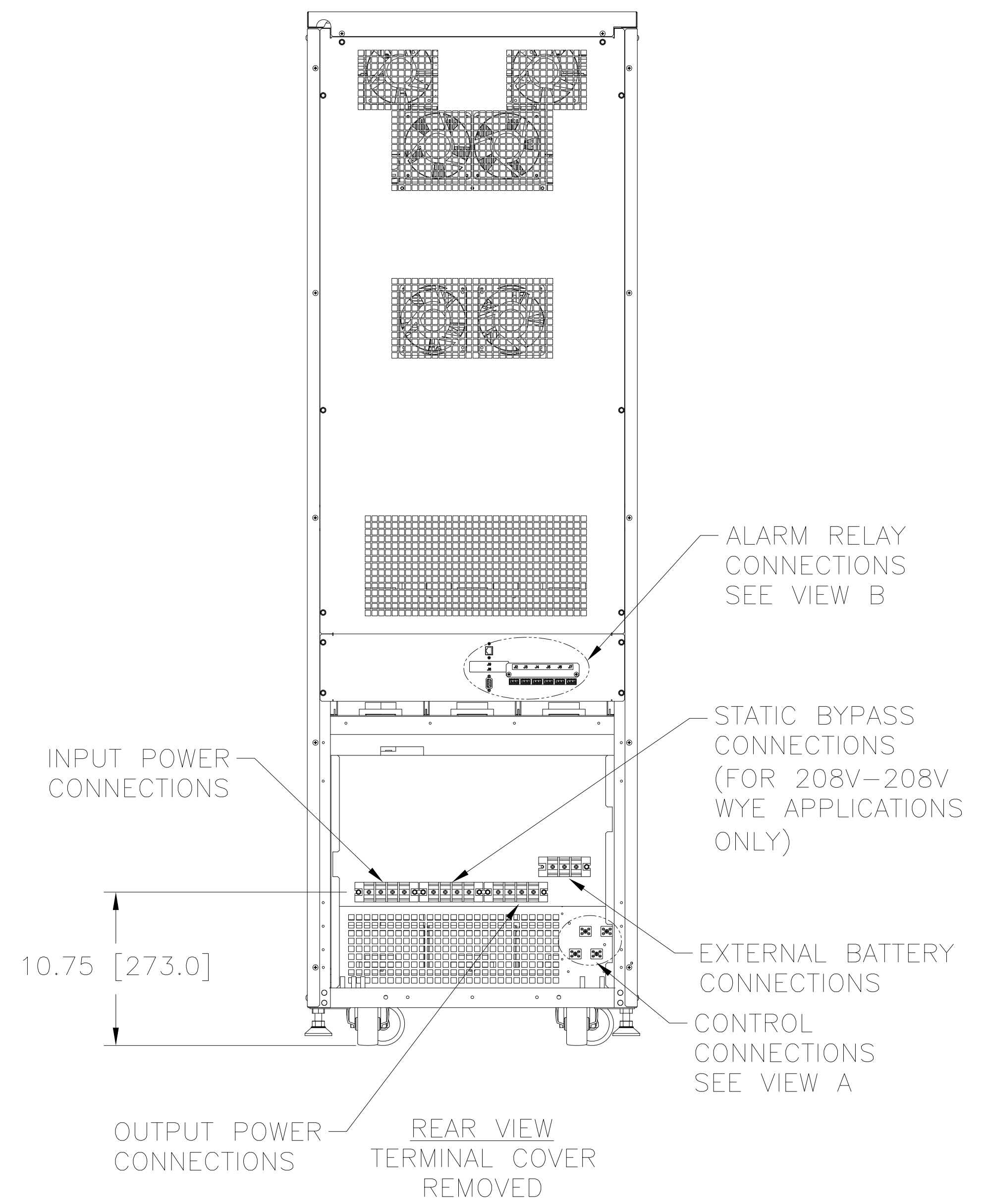


A Components Corporation of America Company  
 301 Gadsden Boulevard Dayton, Ohio 45403 USA

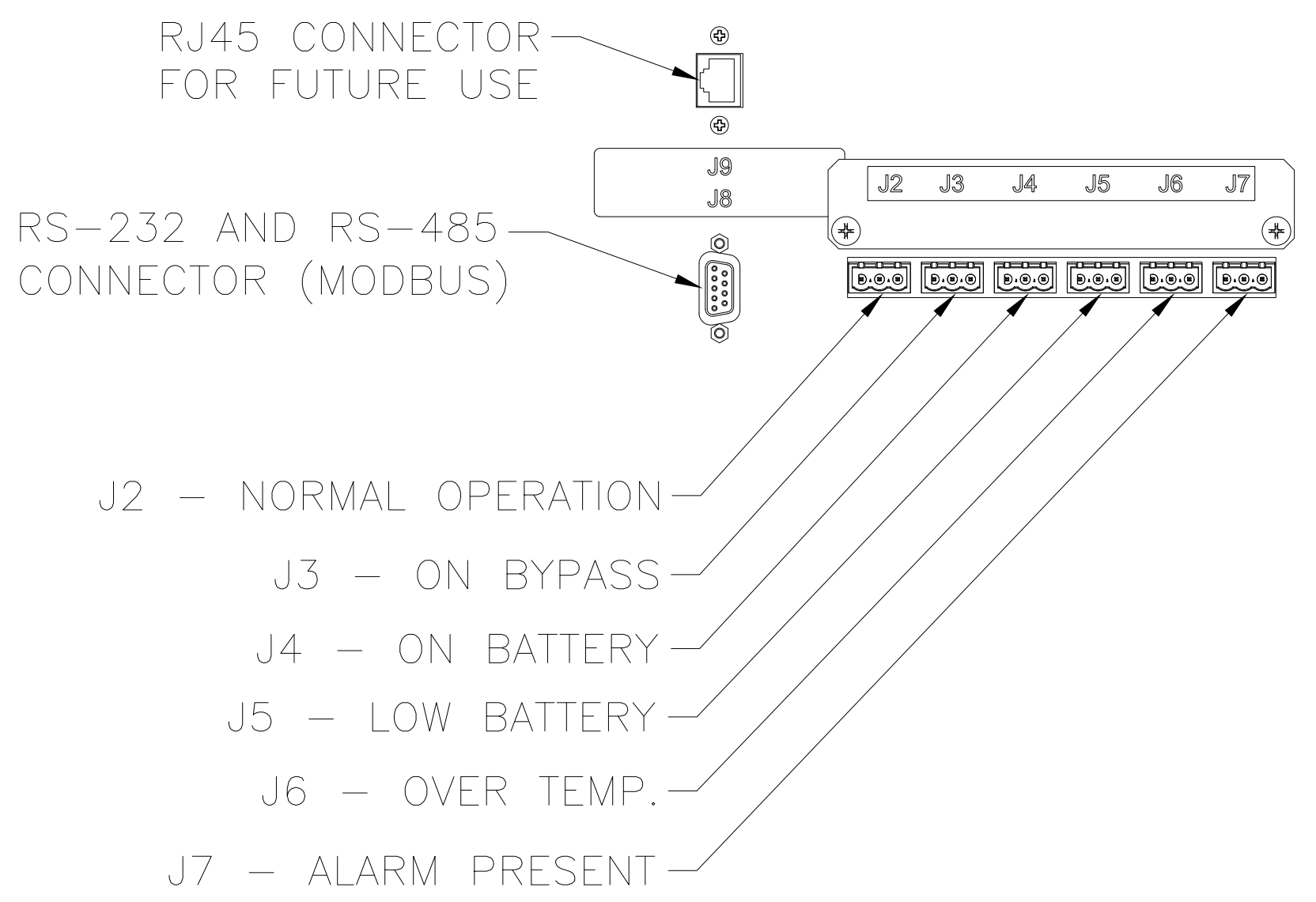
DWG. NO.	096-6050		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28283	10/1/15	
UPDATES AND REVISIONS			
B	28288	10/13/15	
SEE SHEET 1			
C	28457	4/12/16	
SEE SHEET 1			
D	28532	6/29/16	
SEE SHEET 1			
E	28771	3/2/17	
SEE SHEET 1			
F	28799	4/3/17	
SEE SHEET 1			



VIEW A  
CONTROL CONNECTIONS



VIEW B  
ALARM RELAY CONNECTIONS

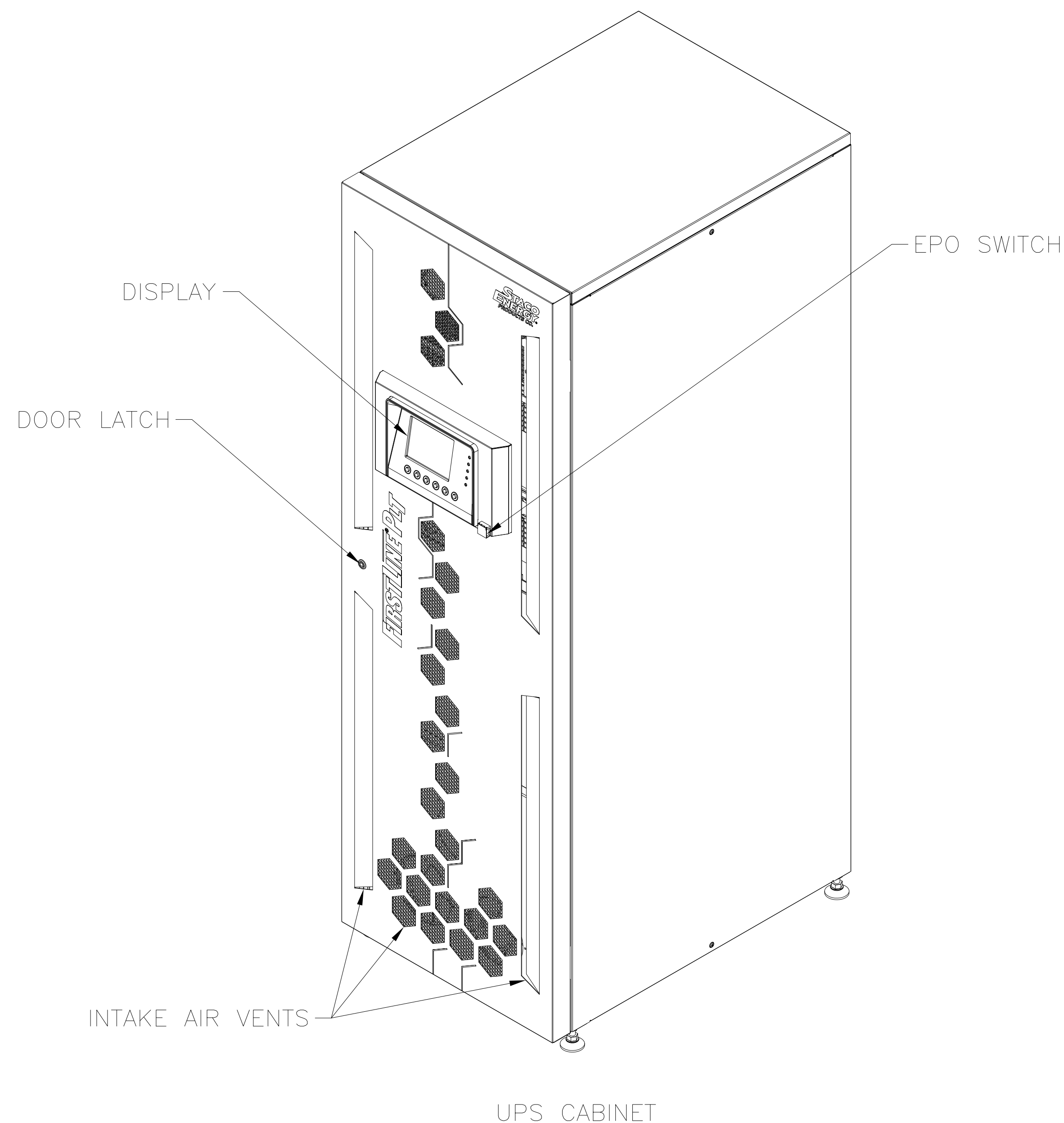


TERMINAL BLOCK CONNECTION DATA  
 POWER AND BATTERY TERMINAL SCREW SIZE: M8  
 POWER AND BATTERY TERMINAL TORQUE: 30 IN-LBS (3.4 N-M)  
 CONTROL TERMINAL BLOCKS TORQUE: 6 IN-LBS (0.7 N-M)

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±		UNITS		TITLE:	
DECIMALS	HOLE	ANGLES	DRAFT	SPECIFICATION CONTROL DRAWING	
.XX	.12	1°	1-1/2°	FIRSTLINE PLT	
.XXX	.005			UNINTERRUPTIBLE POWER SUPPLY	
MATERIAL:		ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY	
				S.A. SMITH	
				DATE	
				7/31/15	
				FIRST USED ON	
				DO NOT SCALE DWG.	
				CHECKER	
				B. FOX	
				DATE	
				9/2/15	
				WEIGHT APPROX.	
				8.3008	
				ENGINEER	
				B. FOX	
				DATE	
				9/2/15	
				SCALE	
				.15	
				SHEET 3 OF 5	
				DWG. NO.	
				096-6050	

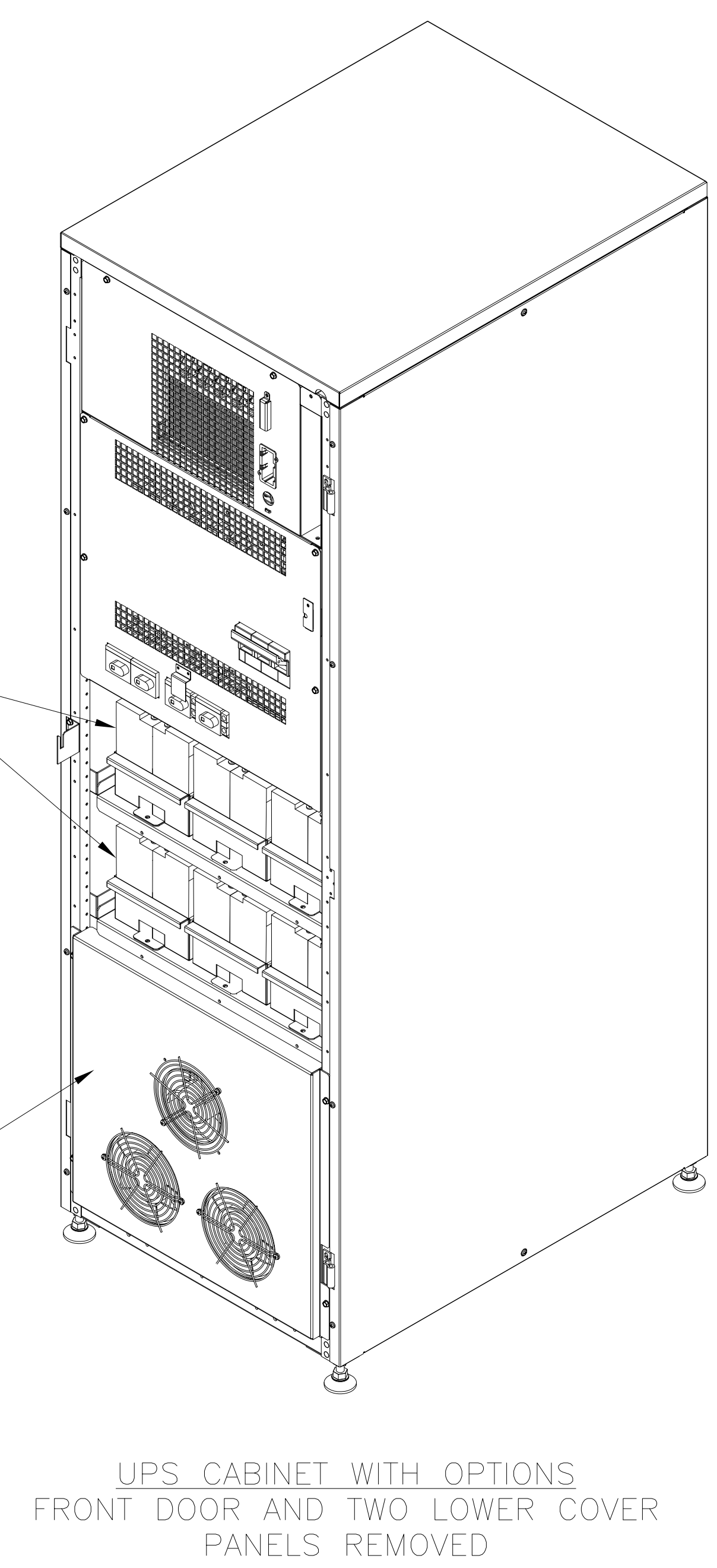


DWG. NO.	096-6050		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
D	28532	6/29/16	SEE SHEET 1
E	28771	3/2/17	SEE SHEET 1
F	28799	4/3/17	SEE SHEET 1



OPTIONAL INTERNAL BATTERIES – SINGLE STRING. SECOND STRING CAN BE ADDED IN LOWER COMPARTMENT IF NO TRANSFORMERS ARE REQUIRED.

LOWER COMPARTMENT FAN PANEL USED ONLY IF TRANSFORMERS ARE REQUIRED.



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DECIMALS	HOLE	ANGLES	DRAFT	SPECIFICATION CONTROL DRAWING	
.XX	.12	1°	1-1/2°	FIRSTLINE PLT	
.XXX	.005			UNINTERRUPTIBLE POWER SUPPLY	
MATERIAL:		ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY	
				SLB	
				DATE	
				6/29/16	
				FIRST USED ON	
				DO NOT SCALE DWG.	
				CHECKER	
				B.FOX	
				DATE	
				7/1/16	
				WEIGHT APPROX.	
				83008	
				ENGINEER	
				B.FOX	
				DATE	
				7/1/16	
				SCALE	
				.15	
				SHEET 4 OF 5	
				DWG. NO.	
				D 096-6050	



DWG. NO.	096-6050		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
D	28532	6/29/16	
	SEE SHEET 1		
E	28771	3/2/17	
	SEE SHEET 1		
F	28799	4/3/17	
	SEE SHEET 1		

FIRSTLINE PLT SPECIFICATIONS									
kVA	RECTIFIER INPUT (3-PHASE, 60HZ)		OUTPUT (3-PHASE, 60HZ)		DC		NUMBER OF BATTERY STRING	MAXIMUM WEIGHT	BTU/hr
	VAC	CURRENT	VAC	CURRENT	VDC	CURRENT		LBS	
10	208/120	33	208Y/120	28	432	27	1	1230	2400
10	208Δ	34	208Y/120	28	432	27	1	1379	3200
10	480Δ	15	208Y/120	28	432	27	1	1409	3200
10	480Y/277	15	208Y/120	28	432	27	1	1299	2900
10	480Y/277	15	480Y/277	12	432	27	1	1399	3400
10	208Δ	34	480Y/277	12	432	27	1	1479	3700
10	208Y/120	33	480Y/277	12	432	27	1	1299	2900
10	480Δ	15	480Y/277	12	432	27	1	1509	3700
10	208Y/120	33	208Y/120	28	432	27	2	1770	2400
15	208Y/120	49	208Y/120	42	432	40	1	1230	3500
15	208Δ	50	208Y/120	42	432	40	1	1449	4800
15	480Δ	22	208Y/120	42	432	40	1	1449	4800
15	480Y/277	22	208Y/120	42	432	40	1	1399	4300
15	480Y/277	22	480Y/277	18	432	40	1	1599	5000
15	208Δ	51	480Y/277	18	432	40	1	1649	5600
15	208Y/120	50	480Y/277	18	432	40	1	1399	4300
15	480Δ	22	480Y/277	18	432	40	1	1649	5600
15	208Y/120	49	208Y/120	42	432	40	2	1770	3500
20	208Y/120	65	208Y/120	56	432	53	1	1230	4700
20	208Δ	67	208Y/120	56	432	53	1	1429	6400
20	480Δ	29	208Y/120	56	432	53	1	1499	6400
20	480Y/277	29	208Y/120	56	432	53	1	1429	5700
20	480Y/277	29	480Y/277	24	432	54	1	1659	6700
20	208Δ	68	480Y/277	24	432	54	1	1659	7400
20	208Y/120	66	480Y/277	24	432	54	1	1429	5700
20	480Δ	30	480Y/277	24	432	54	1	1729	7400
20	208Y/120	65	208Y/120	56	432	53	2	1770	4700

1. ALL WEIGHTS ARE IN POUNDS
2. WEIGHT WITH 90W BATTERIES.  
FOR 51 W BATTERIES, SUBTRACT 234 LBS PER STRING.  
FOR 34W BATTERIES, SUBTRACT 341 LBS PER STRING.
3. BASE UNIT WITH NO BATTERIES OR TRANSFORMERS WEIGHS 659 LBS.

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.XX	.12	1°	1-1/2°	FIRSTLINE PLT	
.XXX	.005			UNINTERRUPTIBLE POWER SUPPLY	
MATERIAL:			ALL DIMENSIONS APPLY AFTER PLATING		
DRAWN BY		DATE	FIRST USED ON	DO NOT SCALE DWG.	
SLB		6/29/16			
CHECKER		DATE	WEIGHT APPROX.	CASE CODE	
B.FOX		7/1/16		83008	
ENGINEER		DATE	SCALE	SHEET 5 OF 5	
B.FOX		7/1/16	1/1		
				DWG. NO.	096-6050



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