

MODEL NUMBER
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
F L X - 0 4 0 6 1 - 1 - 1 0 0 0

INTERNAL INPUT/OUTPUT TRANSFORMER OR INTERNAL BATTERY #2	
NNNN	BATTERY STRING 2 AND TRANSFORMERS NOT PROVIDED. (208/120V INPUT;120V OUTPUT)
0000	BATTERY SHELF PROVIDED FOR STRING 2, BATTERIES AND TRAYS NOT INCLUDED. (208/120V INPUT;120V OUTPUT)
1000	90W/23AH BATTERY STRING 2 PROVIDED. (208/120V INPUT;120V OUTPUT)
2000	51W/13AH BATTERY STRING 2 PROVIDED. (208/120V INPUT;120V OUTPUT)
3000	34W/8AH BATTERY STRING 2 PROVIDED. (208/120V INPUT;120V OUTPUT)
2D1Y	208V INPUT ISOLATION TRANSFORMER, 208V BYPASS AUTOTRANSFORMER AND NO OUTPUT TRANSFORMER
2D2Y	208V INPUT ISOLATION TRANSFORMER, 208V BYPASS AUTOTRANSFORMER AND 208V OUTPUT AUTOTRANSFORMER
2D5Y	208V INPUT ISOLATION TRANSFORMER, 208V BYPASS AUTOTRANSFORMER AND 277V OUTPUT AUTOTRANSFORMER
2Y5Y	208/120V NO INPUT TRANSFORMER AND 277V OUTPUT AUTOTRANSFORMER
4D1Y	480V INPUT ISOLATION TRANSFORMER, 480V BYPASS AUTOTRANSFORMER AND NO OUTPUT TRANSFORMER
4D2Y	480V INPUT ISOLATION TRANSFORMER, 480V BYPASS AUTOTRANSFORMER AND 208V OUTPUT AUTOTRANSFORMER
4D5Y	480V INPUT ISOLATION TRANSFORMER, 480V BYPASS AUTOTRANSFORMER AND 277V OUTPUT AUTOTRANSFORMER
4Y1Y	480/277V INPUT AUTOTRANSFORMER, 277V BYPASS AUTOTRANSFORMER AND NO OUTPUT TRANSFORMER
4Y2Y	480/277V INPUT AUTOTRANSFORMER, 277V BYPASS AUTOTRANSFORMER AND 208V OUTPUT AUTOTRANSFORMER
4Y5Y	480/277V INPUT AUTOTRANSFORMER, 480V BYPASS AUTOTRANSFORMER AND 277V OUTPUT AUTOTRANSFORMER

INTERNAL BATTERY STRING #1	
0	BATTERY SHELF PROVIDED, BUT BATTERIES AND BATTERY TRAY NOT INCLUDED
1	90W/23AH BATTERY STRING (AVAILABLE ONLY FOR 208/120V INPUT OR 120V OUTPUT)
2	51W/13AH BATTERY STRING (AVAILABLE ONLY FOR 208/120V INPUT OR 120V OUTPUT)
3	34W/8AH BATTERY STRING (AVAILABLE ONLY FOR 208/120V INPUT OR 120V OUTPUT)

# of Output Phases	
1	SINGLE PHASE OUTPUT

FREQUENCY	
6	60 HZ

KVA AND CABINET TYPE	
040	40 KVA
030	30 KVA

SERIES	
FLX	FIRSTLINE INDUSTRIAL UPS

DWG. SIZE D	DWG. NO. 096-6073		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28531	6/27/16	UPDATES & REVISIONS
B	28542	7/18/16	ADDED OPER. TEMP NOTE

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS HOLES ANGLES DRAFT .XX .0005 .12 .005 1° 1-1/2° .XXX .005		UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE XD INDUSTRIAL 3X1 UNINTERRUPTIBLE POWER SUPPLY					
MATERIAL :		ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY SLB	DATE 2/22/16	FIRST USED ON	DO NOT SCALE DWG.		
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				ENGINEER B.FOX	DATE 5/16/16	SCALE .15	SHEET 1 OF 5		
				DWG. SIZE D	DWG. NO. 096—6073				



DWG. SIZE D	DWG. NO. 096-6073		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28531	6/27/16	SEE SHEET 1
B	28542	7/18/16	SEE SHEET 1

SUMMARY OF EQUIPMENT

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

THE FIRSTLINE XD 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 XD UPS.

THE BLOCK DIAGRAM BELOW SHOWS THE MAIN FUNCTIONAL SUBASSEMBLIES OF THE FIRSTLINE XD UPS. THE AC THREE PHASE UTILITY SUPPLY IS RECTIFIED TO PROVIDE DIRECT CURRENT, THE INVERTER WHICH PROVIDES THE SINGLE 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.

EACH UNIT COMES WITH THE FOLLOWING:

- MODBUS AND SNMP COMMUNICATION
- ANTI-FUNGAL COATING
- CONFORMAL COATING ON CIRCUIT BOARDS

ENVIRONMENTAL

OPERATING TEMPERATURE: 0°C TO 50°C
(UNITS WITHOUT INTERNAL BATTERIES)
ALTITUDE: 0-3300 FEET [1000 METERS]
(WITHOUT DERATING)
RELATIVE HUMIDITY: 0-95%, NON-CONDENSING

SERVICE/VENTILATION CLEARANCES

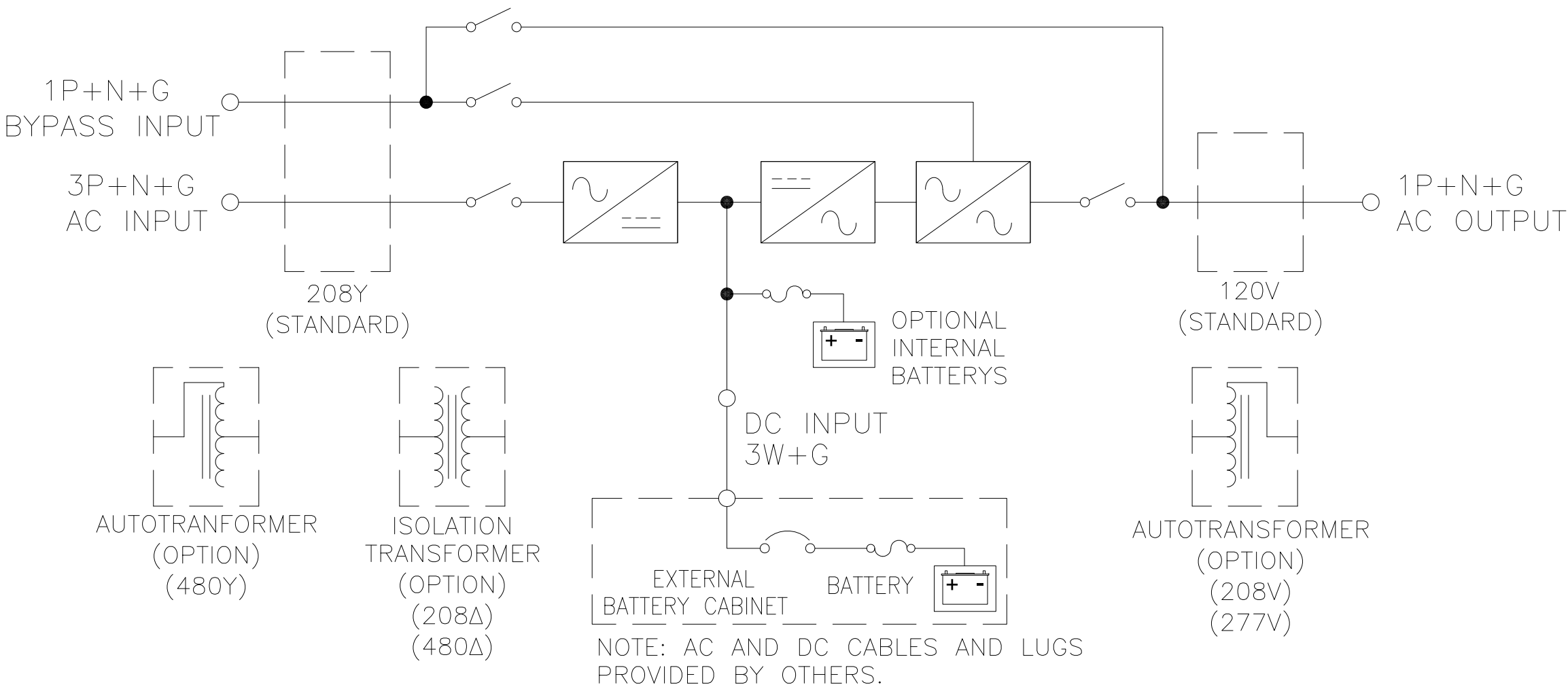
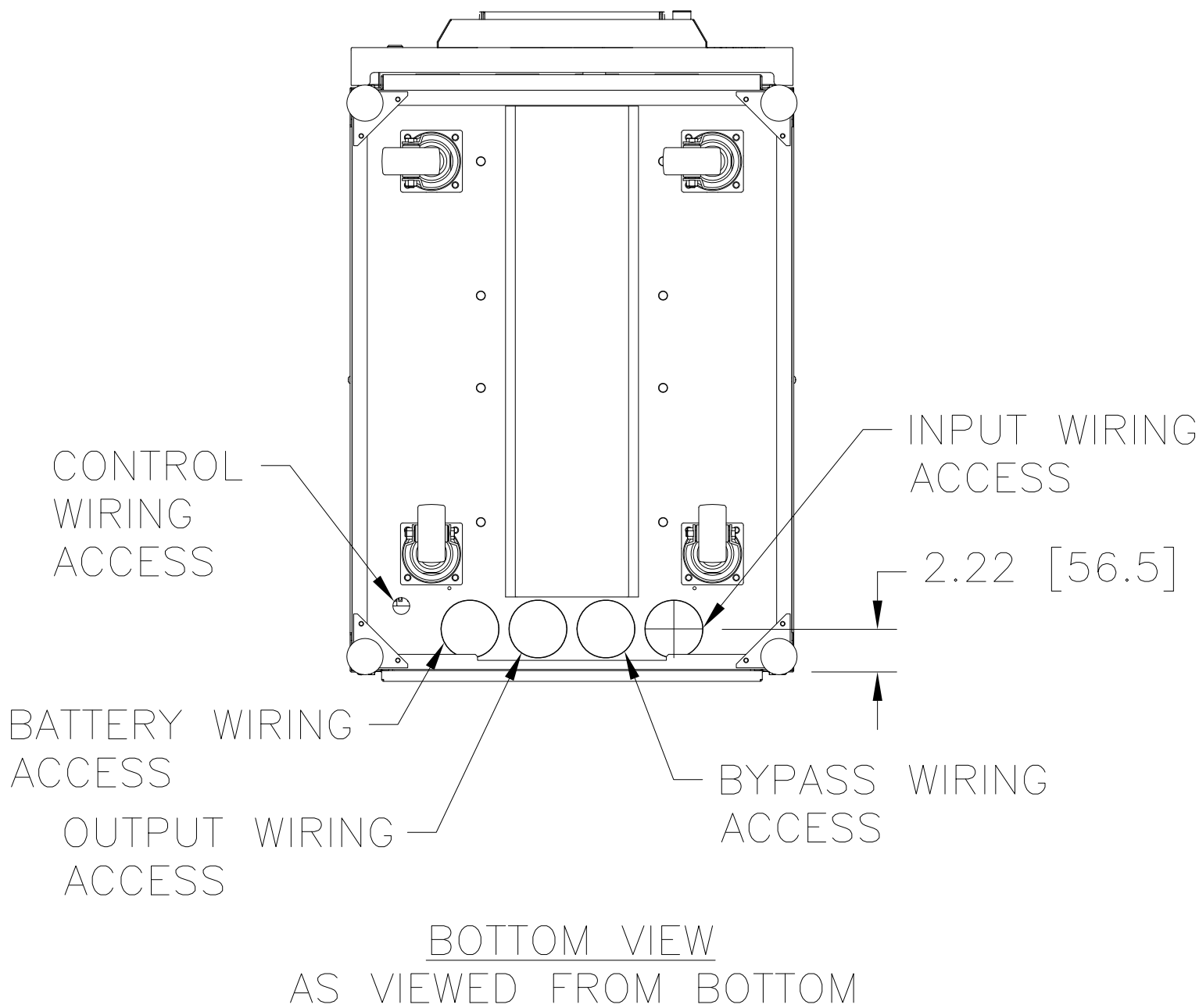
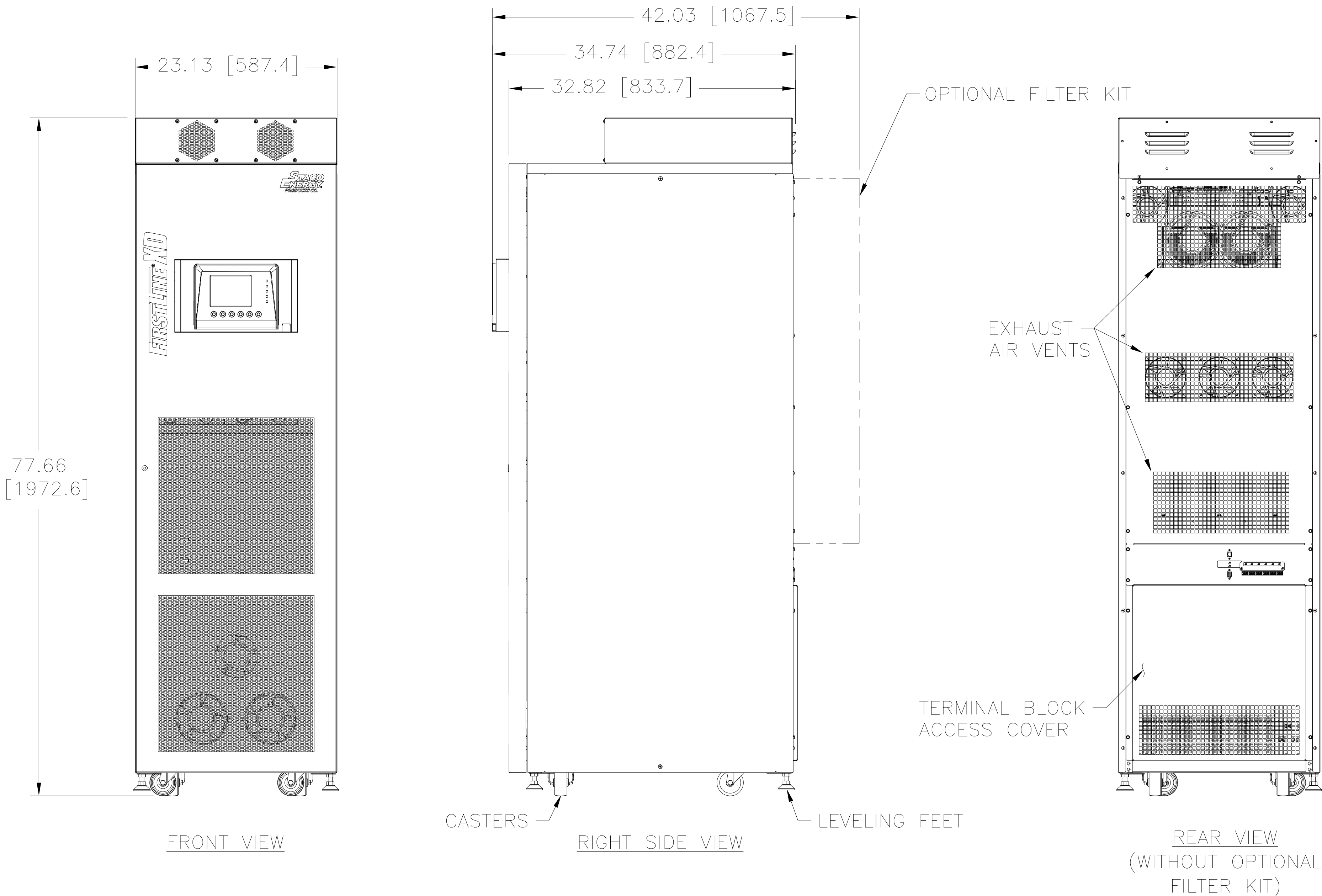
FROM TOP OF CABINET: 18.00 [457.2]
FROM FRONT OF CABINET: 36.00 [914.4]
FROM REAR OF CABINET: 8.00 [203.2]*

*REAR CLEARANCE CAN BE REDUCED TO 3"[76.2] IF THERE IS AT LEAST 4"[101.6] CLEARANCE ON BOTH SIDES. IF OPTIONAL FILTER KIT IS INSTALLED, REAR CLEARANCE IS REDUCED TO 0" [0].

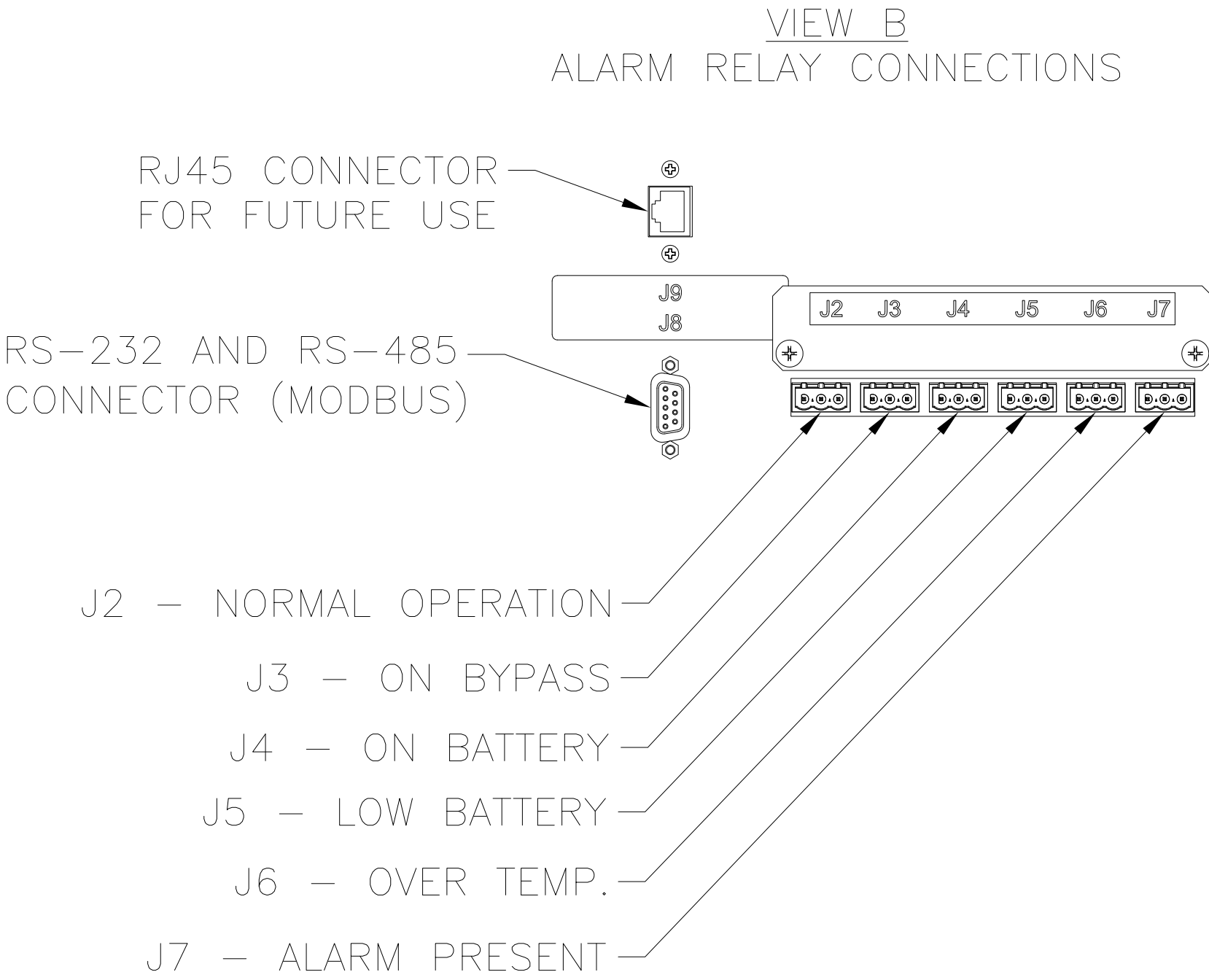
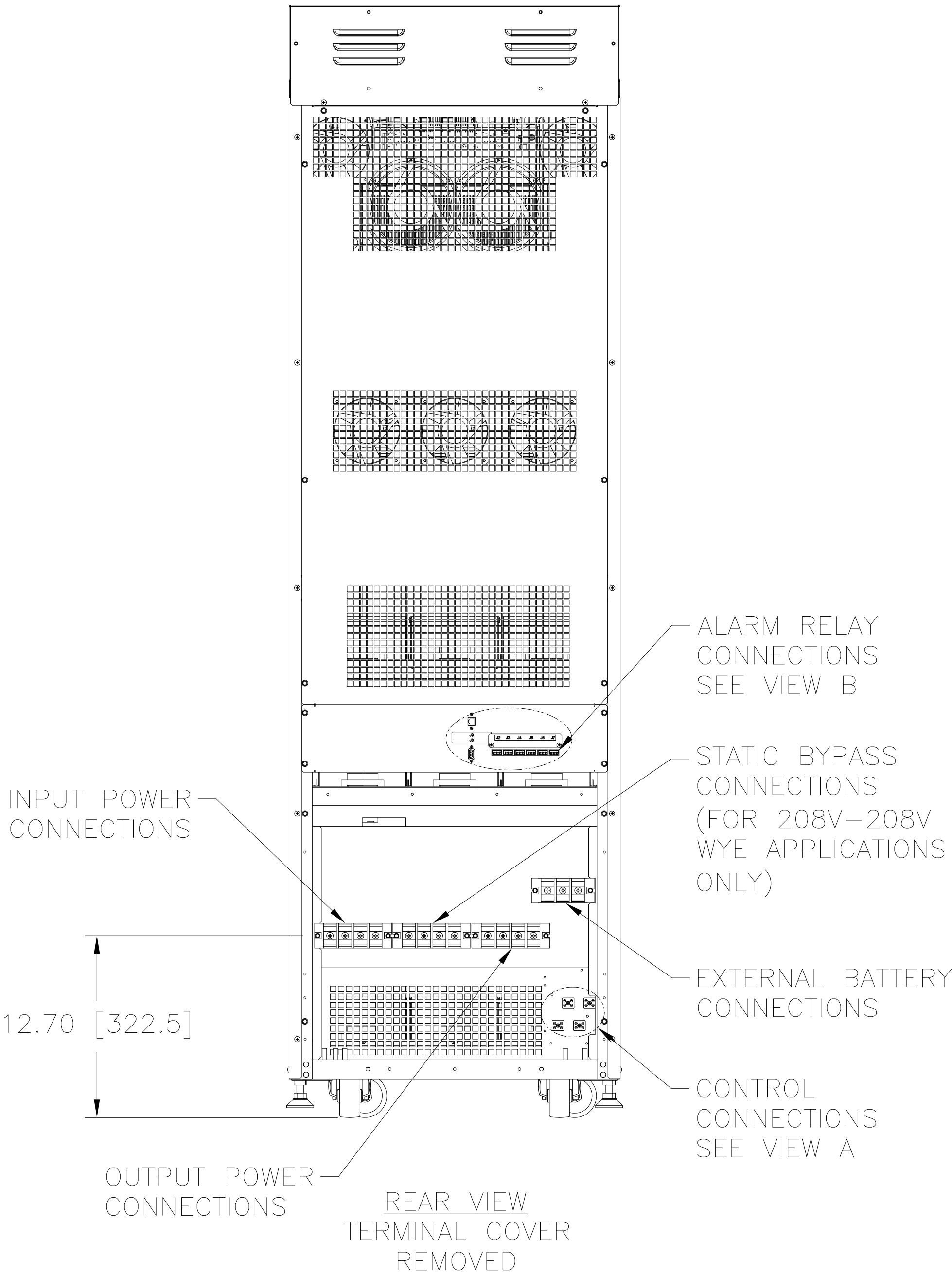
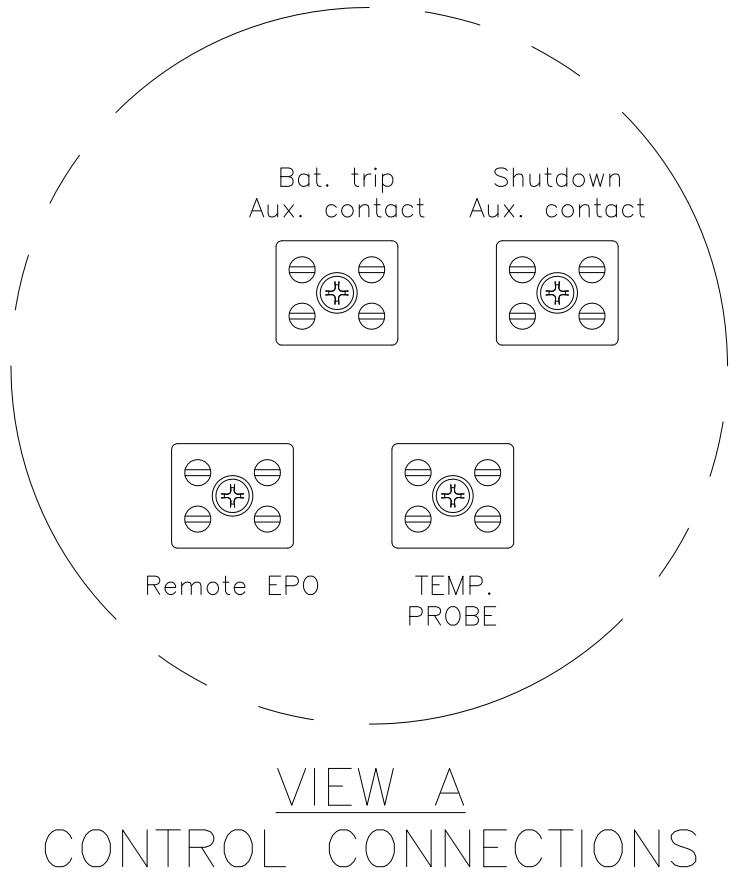
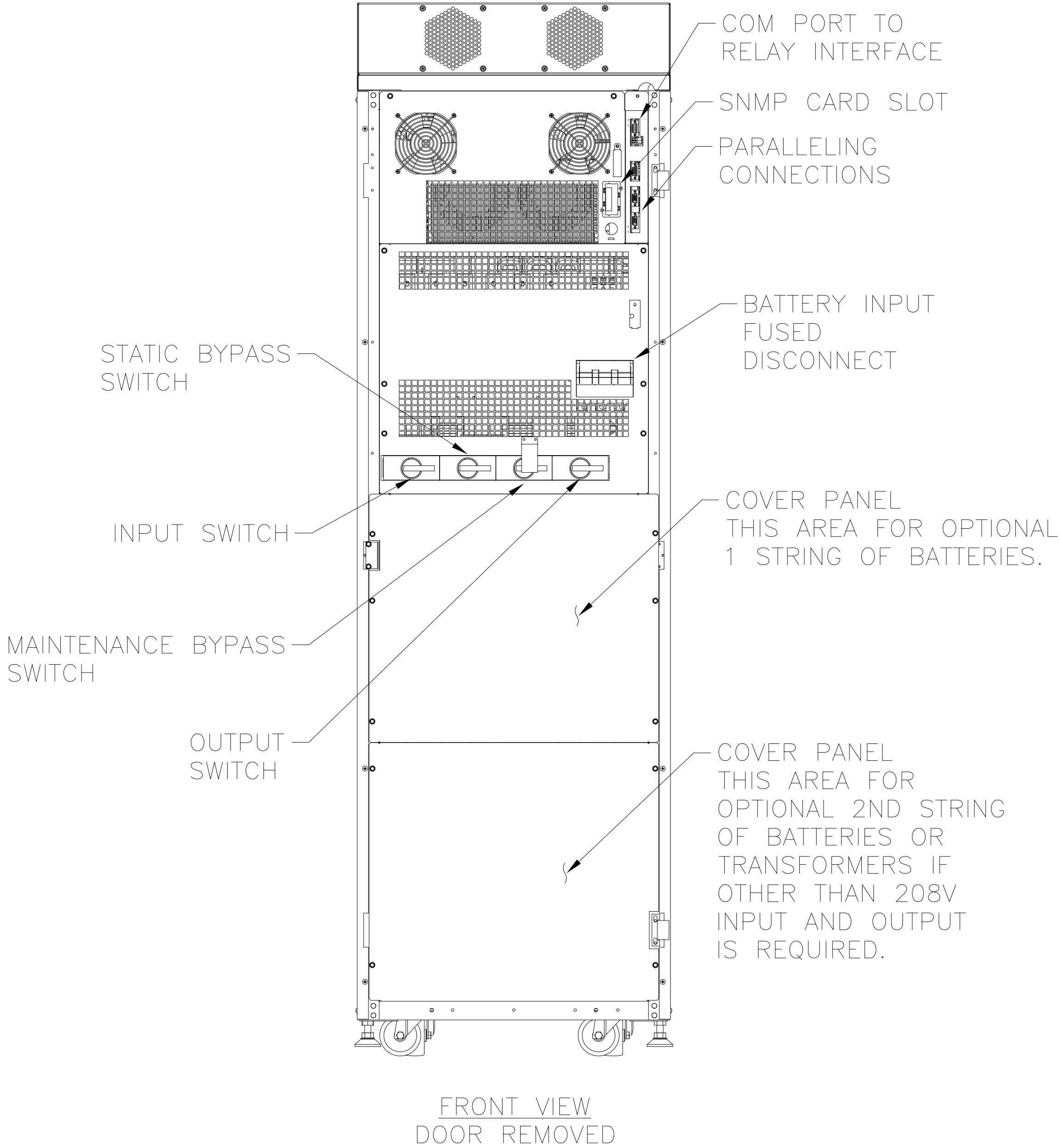
UL LISTED TO UL 1778, FILE NO.: E191175

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS HOLES DRIFT ANGLES .XX .000 .12 .005 1° 1-1/2° XXX .005		UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE XD INDUSTRIAL 3X1 UNINTERRUPTIBLE POWER SUPPLY		 A Components Corporation of America Company 301 Gaddis Boulevard Dayton, Ohio 45403 USA	
MATERIAL :		ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY SLB	DATE 2/22/16	FIRST USED ON	DO NOT SCALE DWG.
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.		CHECKER S.A.SMITH		DATE 5/16/16	WEIGHT APPROX.	CAGE CODE 83008	DWG. SIZE
				ENGINEER B.FOX	DATE 5/16/16	SCALE 1/8	SHEET 2 OF 5

D 096-6073



DWG. SIZE D	DWG. NO. 096-6073		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28531	6/27/16 SEE SHEET 1	
B	28542	7/18/16 SEE SHEET 1	

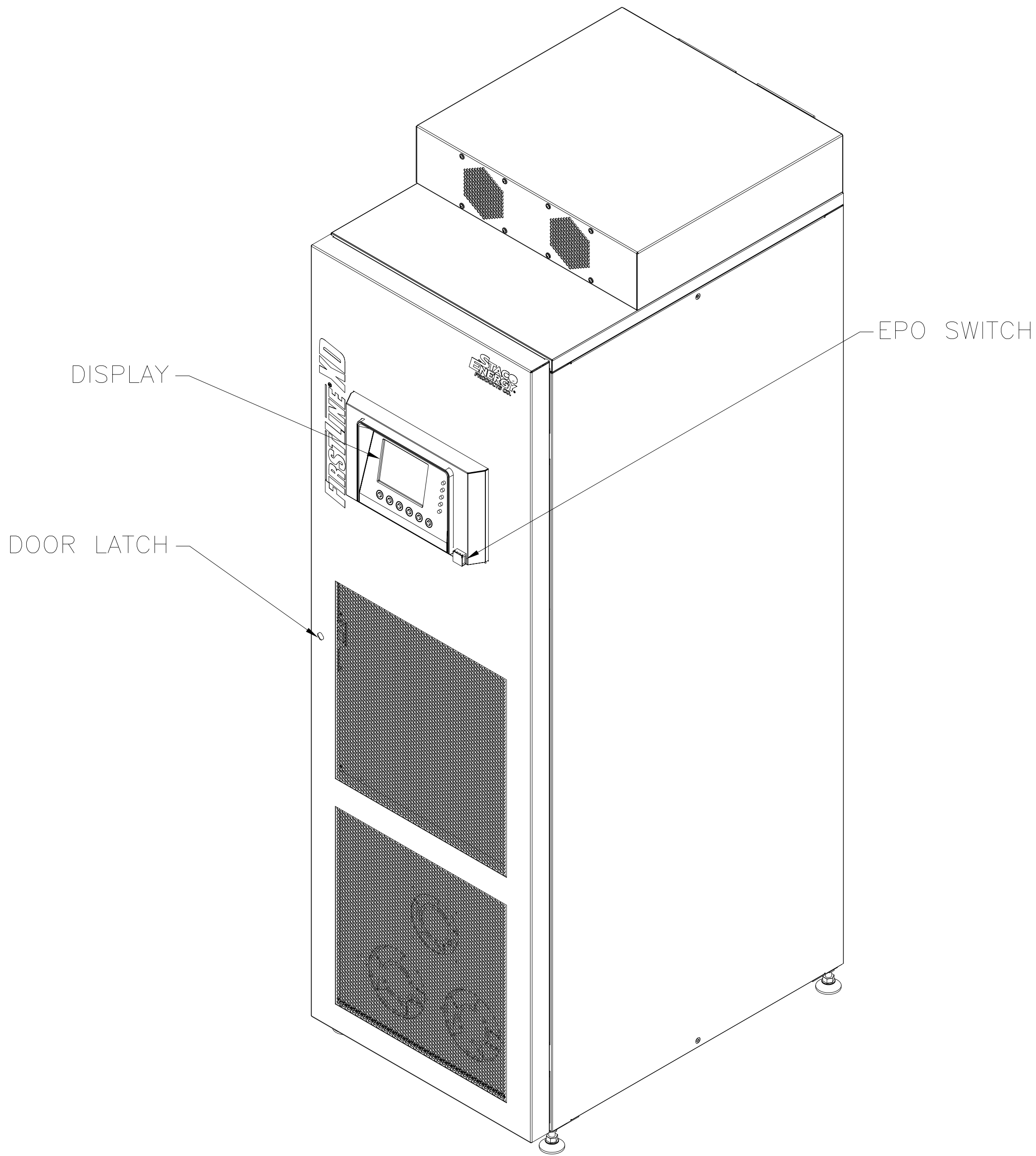


TERMINAL BLOCK CONNECTION DATA
POWER AND BATTERY TERMINAL SCREW SIZE: M8
POWER AND BATTERY TERMINAL TORQUE: 30 IN-LBS (3.4 N-M)
CONTROL TERMINAL BLOCKS TORQUE: 6 IN-LBS (0.7 N-M)

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS HOLES ANGLES DRAFT .XX .0012 .12 .005 1° 1-1/2° .XXX .005		UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE XD INDUSTRIAL 3X1 UNINTERRUPTIBLE POWER SUPPLY	
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ENGINEER B.FOX		DATE 5/16/16		SCALE .15	DO NOT SCALE DWG. CAGE CODE 83008
SHEET 3 OF 5		DWG. SIZE D		DWG. NO. 096-6073	



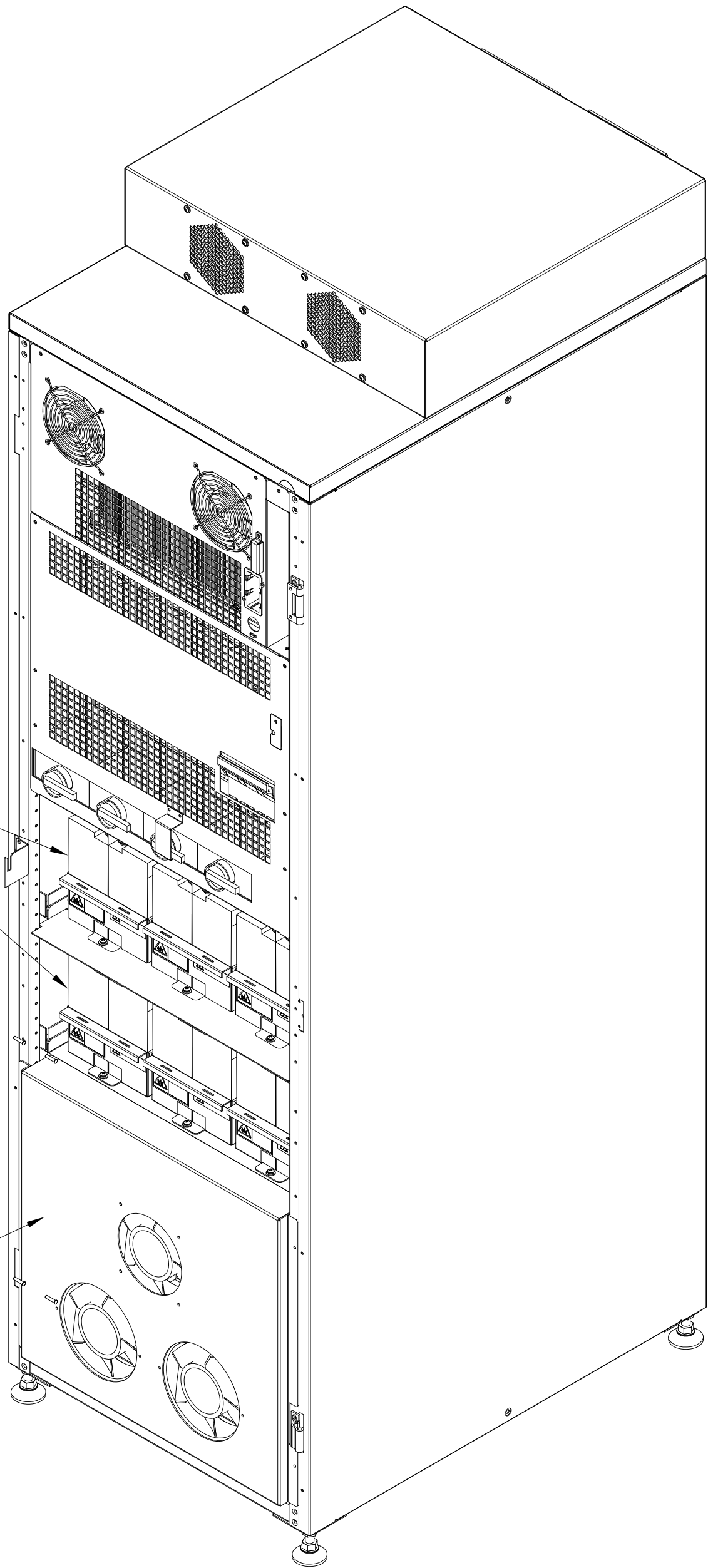
DWG. SIZE D	DWG. NO. 096-6073		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28531	6/27/16	SEE SHEET 1
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UPS CABINET

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.



UPS CABINET WITH OPTIONS
FRONT DOOR AND TWO LOWER COVER
PANELS REMOVED

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS HOLES ANGLES DRAFT XX .0000 .12 .005 1° 1-1/2° XXX .005				UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE XD INDUSTRIAL 3X1 UNINTERRUPTIBLE POWER SUPPLY				 A Components Corporation of America Company 301 Gaddis Boulevard Dayton, Ohio 45403 USA			
MATERIAL :				ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY SLB	DATE 2/22/16	FIRST USED ON	DO NOT SCALE DWG.				
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						ENGINEER B.FOX	DATE 5/16/16	SCALE .15	SHEET 4 OF 5	D	096-6073		

DWG. SIZE D	DWG. NO. 096-6073		
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FIRSTLINE XD SPECIFICATIONS									
KVA	RECTIFIER INPUT (3-PHASE, 60HZ)		BYPASS INPUT (1-PHASE, 60HZ)		OUTPUT (1-PHASE)		DC		WEIGHT
	VAC	CURRENT	VAC	CURRENT	VAC	CURRENT	VDC	CURRENT	LBS
30	208/120Y	97.7A	120V	250A	120V	250A	432	79.6	688
30	208/120Y	99.2A	120V	253.8A	277V	108.3A	432	80.8	888
30	208Δ	100.2A	208V	147.9A	120V	250A	432	79.6	1398
30	208Δ	101.7A	208V	150.2A	208V	144.2A	432	80.8	1608
30	208Δ	101.7A	208V	150.2A	277V	108.3A	432	80.8	1598
30	480/277Y	43A	277V	111.1A	120V	250A	432	79.6	1223
30	480/277Y	43.6A	277V	112.8A	208V	144.2A	432	80.8	1433
30	480/277Y	43.6A	277V	112.8A	277V	108.3A	432	80.8	1423
30	480Δ	43.4A	120V	64.1A	120V	250A	432	79.6	1388
30	480Δ	44.1A	208V	65.1A	208V	144.2A	432	80.8	1598
30	480Δ	44.1A	277V	65.1A	277V	108.3A	432	80.8	1588
40	208/120Y	130.2A	120V	333.3A	120V	333.3A	432	106.2	688
40	208/120Y	132.2A	120V	338.4A	277V	144.4A	432	107.8	918
40	208Δ	133.6A	208V	197.2A	120V	333.3A	432	106.2	1472
40	208Δ	135.6A	208V	200.2A	208V	192.3A	432	107.8	1712
40	208Δ	135.6A	208V	200.2A	277V	144.4A	432	107.8	1702
40	480/277Y	57.3A	277V	148.1A	120V	333.3A	432	106.2	1238
40	480/277Y	58.2A	277V	150.4A	208V	192.3A	432	107.8	1478
40	480/277Y	58.2A	277V	150.4A	277V	144.4A	432	107.8	1468
40	480Δ	57.9A	120V	85.5A	120V	333.3A	432	106.2	1418
40	480Δ	58.8A	208V	86.8A	208V	192.3A	432	107.8	1658
40	480Δ	58.8A	277V	86.8A	277V	144.4A	432	107.8	1648

- NOTES:
- ALL WEIGHTS ARE IN POUNDS
 - WEIGHTS ARE WITH NO INTERNAL BATTERIES INSTALLED
90W BATTERIES: ADD 540 LBS. PER STRING
51W BATTERIES: ADD 337 LBS. PER STRING
34W BATTERIES: ADD 230 LBS. PER STRINGS
 - FOR FILTER KIT OPTION, ADD 54 LBS
 - FOR FILTER KIT WITH REDUNDANT FAN OPTION, ADD 65.25 LBS

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		ENGINEER B.FOX		DATE 5/16/16	SCALE 1/1	SHEET 5 OF 5	D	096—6073	