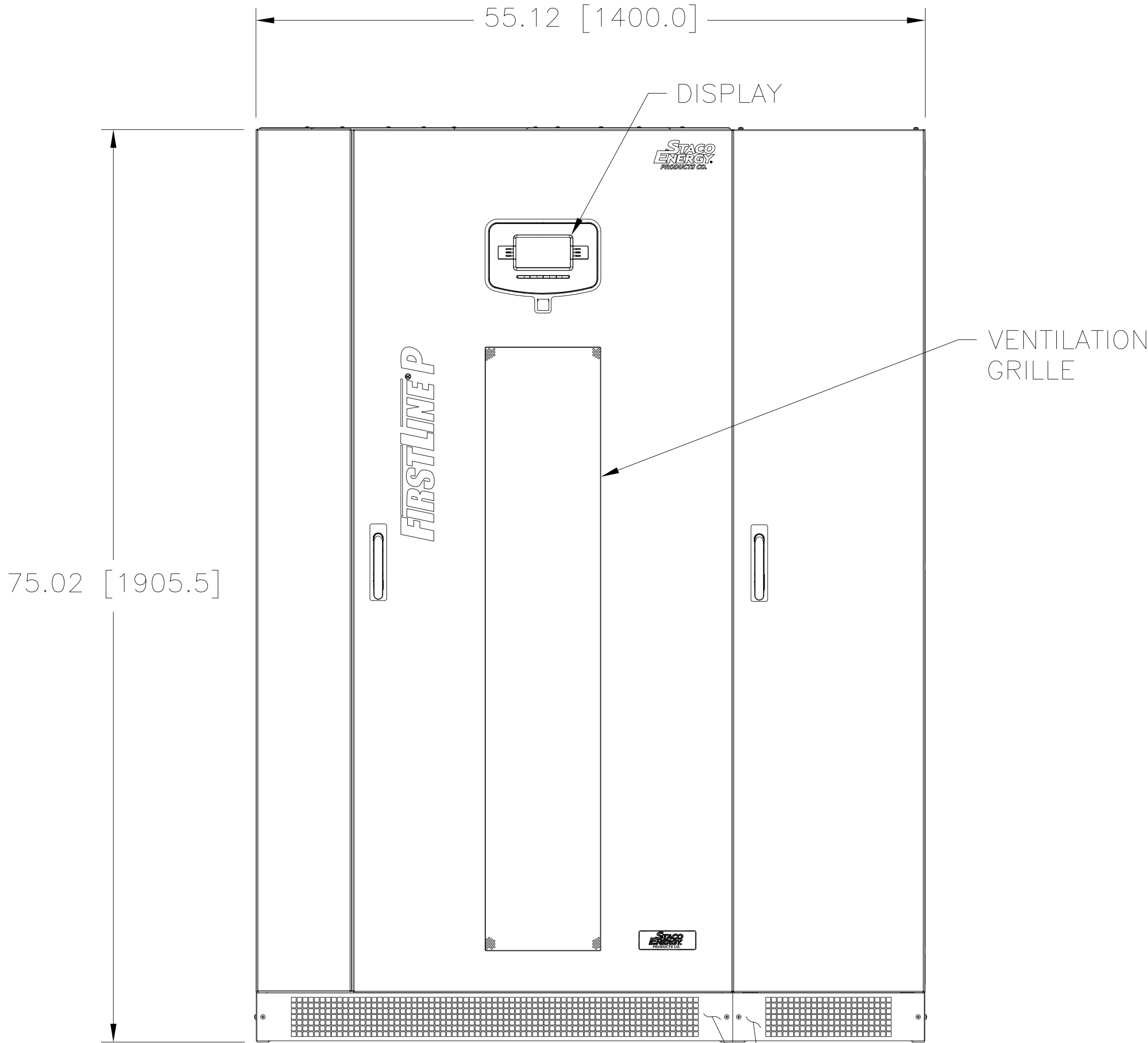
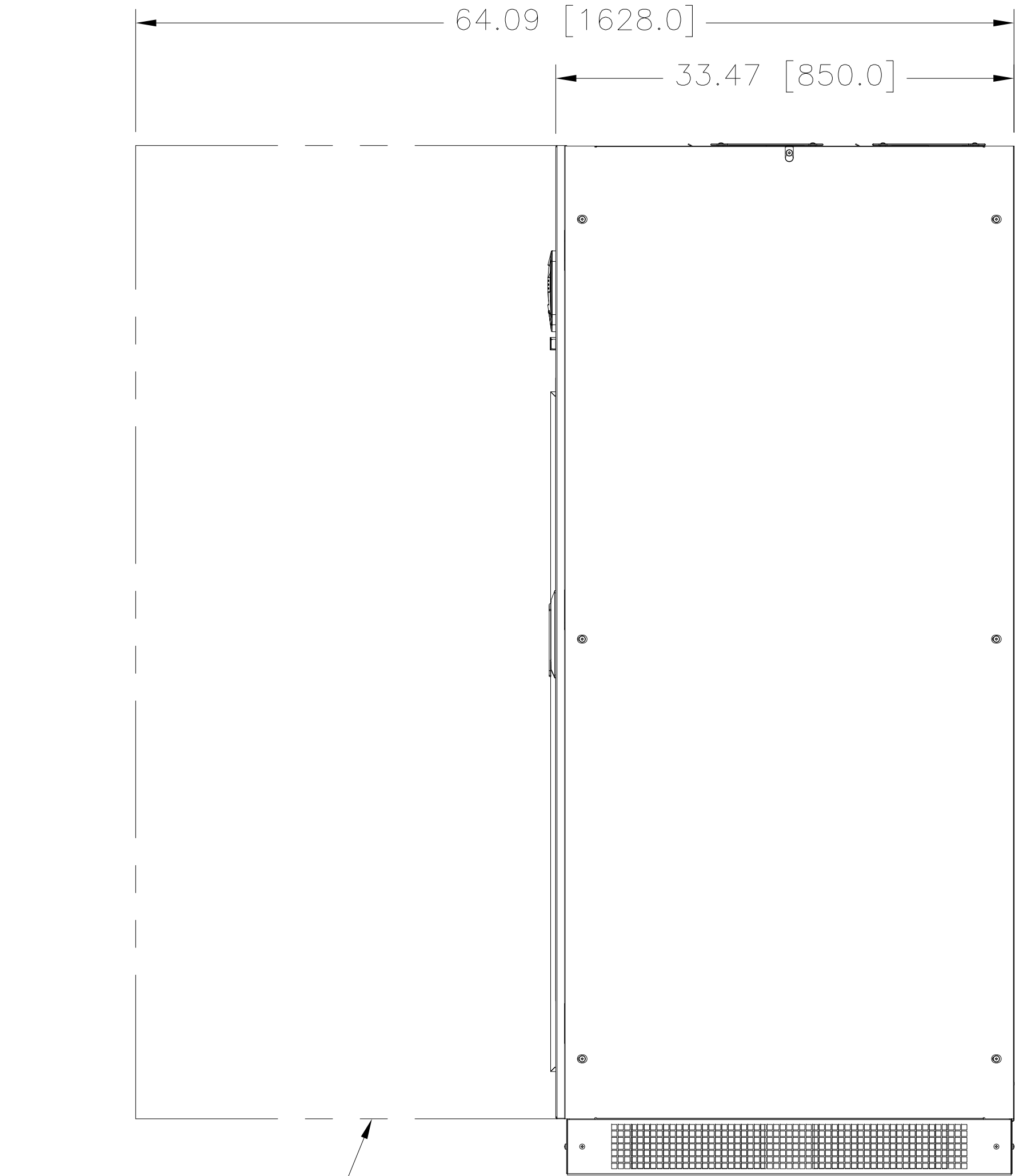


DWG. SIZE D	DWG. NO. 096-6026		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28192	6/8/15	CHANGED INPUT VOLTAGE TOLERANCE
B	28319	11/17/15	
C	ADDED BUS BAR DETAIL ON SHEET 3		UPDATED SERVICE/VENT CLEARANCES
	28798	3/27/17	



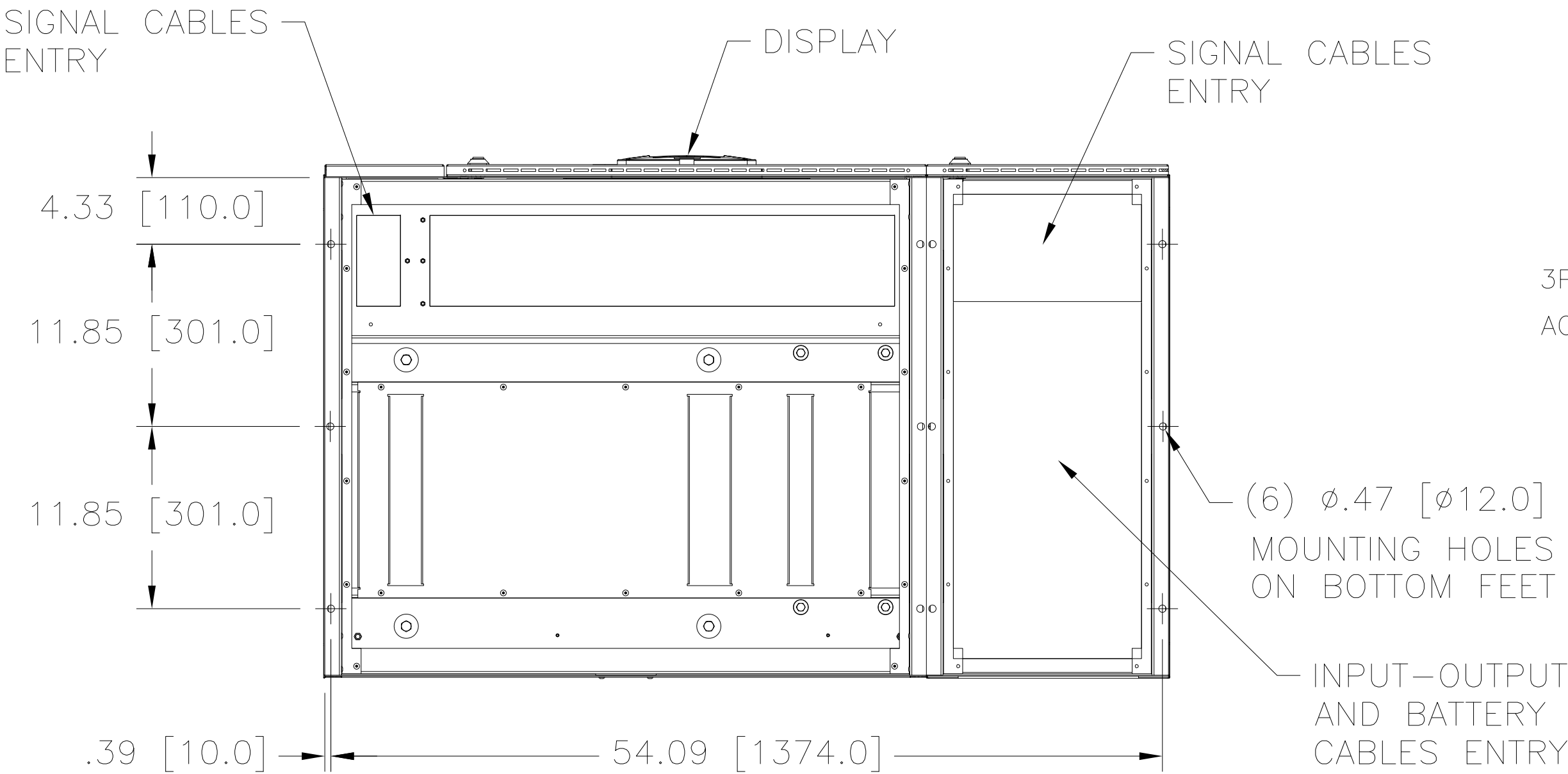
FRONT VIEW

REMOVABLE COVERS
FRONT AND REAR
FOR FORK LIFT ACCESS



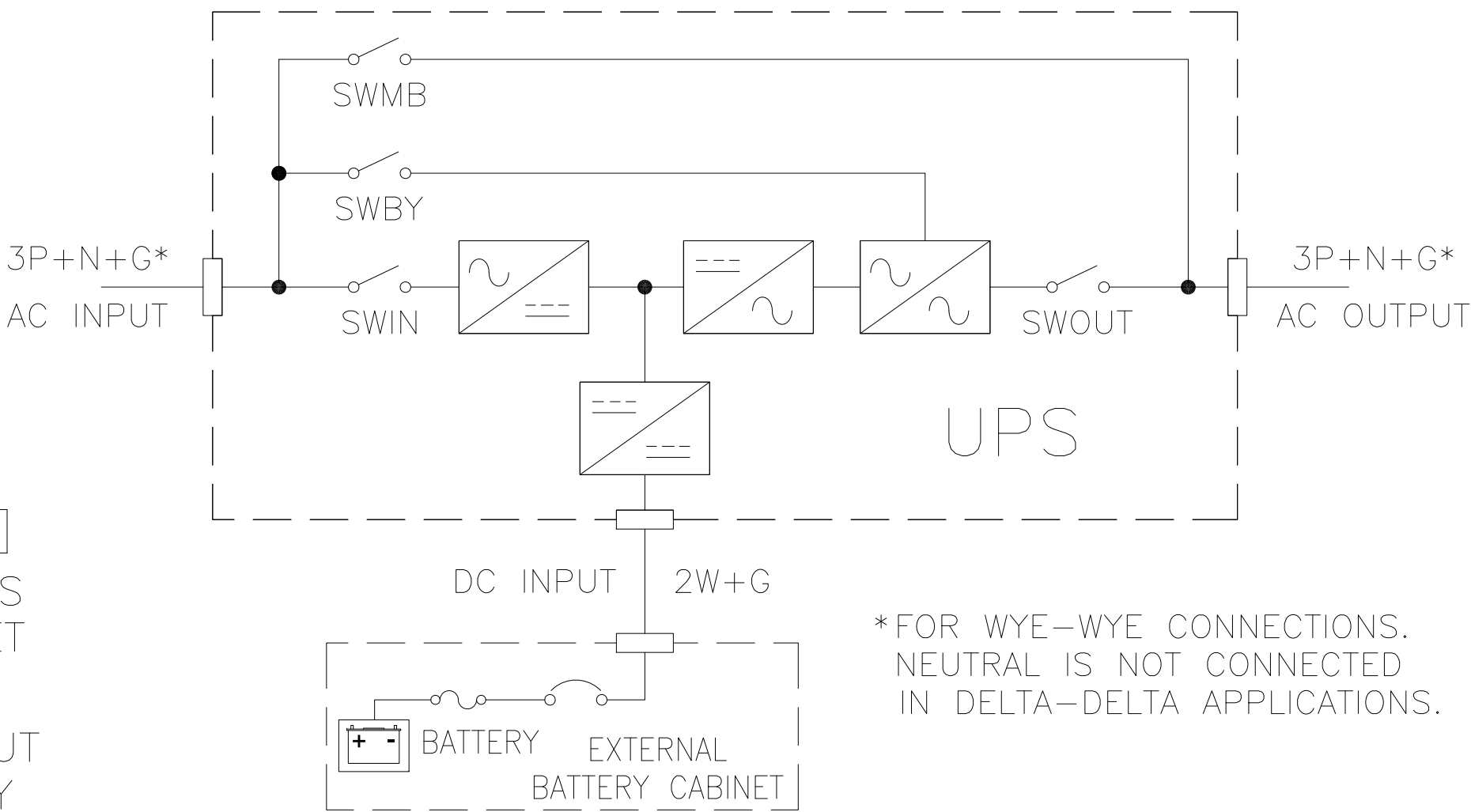
DOOR FULLY OPEN

RIGHT SIDE VIEW



BOTTOM VIEW

SEE SHEET 2 FOR TOP VIEW



NOTE:
AC AND DC CABLES PROVIDED BY OTHERS.
CABLE LUGS PROVIDED BY OTHERS.

SUMMARY OF EQUIPMENT

THE FIRSTLINE P 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 P 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 UPS.

THE BLOCK DIAGRAM BELOW SHOWS THE MAIN FUNCTIONAL SUBASSEMBLIES OF THE FIRSTLINE P 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.

PROVIDED THE UTILITY IS WITHIN LIMITS, THE INVERTER WILL MATCH THE OUTPUT FREQUENCY WITH THE UTILITY FREQUENCY. 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.

UPS CAN BE CONFIGURED FOR WYE-WYE OR DELTA-DELTA APPLICATIONS. DELTA-WYE APPLICATIONS REQUIRE EXTERNAL TRANSFORMER.

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: 24.00 [609.6]
FROM FRONT OF CABINET: 36.00 [914.4]
FROM ONE SIDE OF CABINET (RIGHT, LEFT OR REAR): 24.00 [609.6]

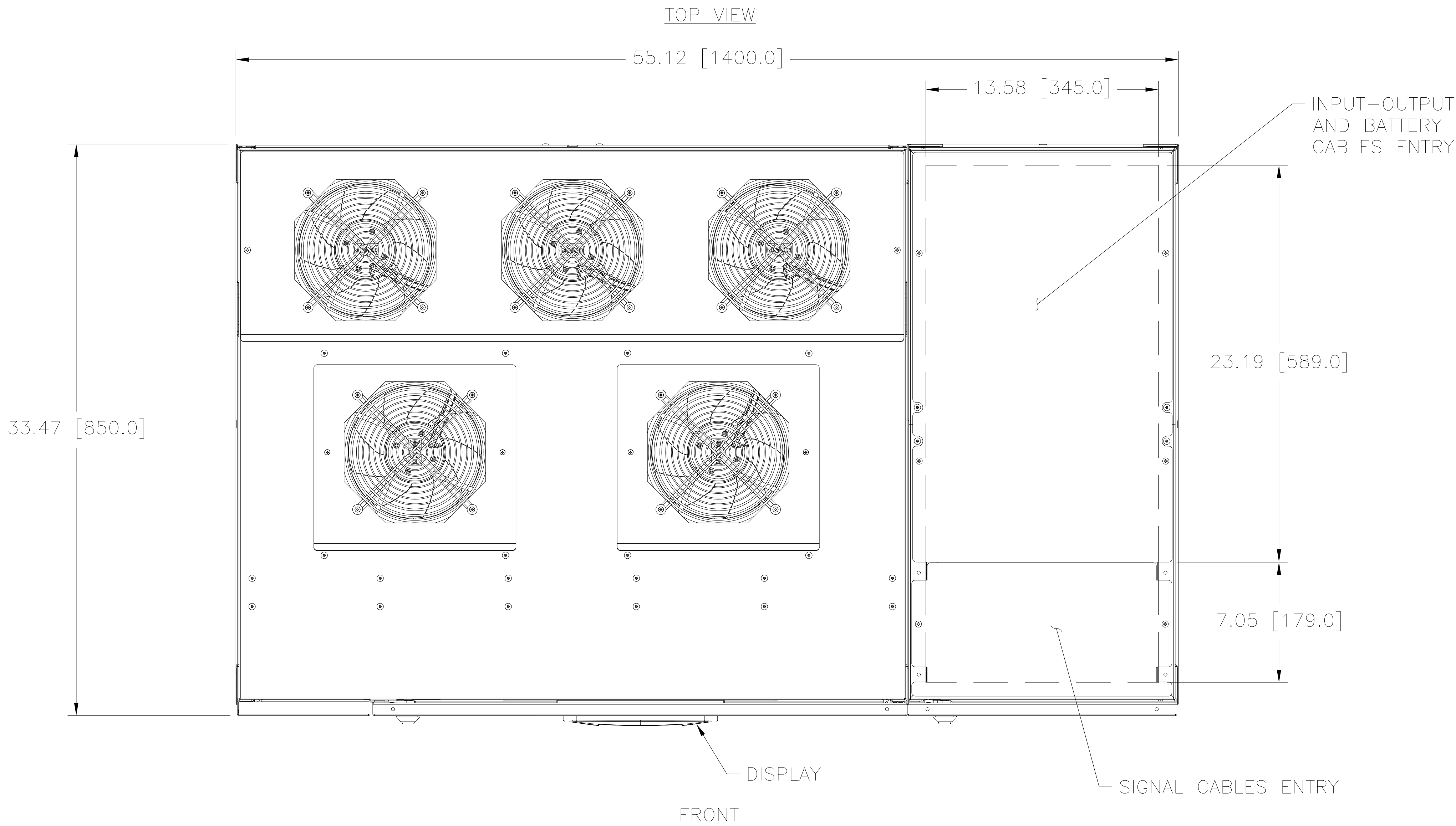
UL LISTED TO UL 1778, FILE NO.: E191175

FIRSTLINE P UPS SPECIFICATIONS						
MODEL	kVA	INPUT VOLTAGE (+15%, -10%) 60 HZ	OUTPUT VOLTAGE (±1%) 60 HZ	MAXIMUM INPUT CURRENT (AMPS)	NOMINAL OUTPUT CURRENT (AMPS)	WEIGHT APPROX. LBS (KG)
FLU-160-T	160	480Y/277	480Y/277	212	192	2326 (1055)
FLU-200-T	180	480Y/277	480Y/277	265	241	2546 (1155)
FLU-250-T	250	480Y/277	480Y/277	331	301	2767 (1255)

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±				UNITS		TITLE:	
DECIMALS	Holes	ANGLES	DRAFT	IN	IN [mm]	SPECIFICATION CONTROL DRAWING	
.XX .XXX .06 .005	.005	1°	1-1/2°			FIRSTLINE P 160-250 KVA	
MATERIAL :				ALL DIMENSIONS APPLY AFTER PLATING		UNINTERRUPTIBLE POWER SUPPLY	
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.				DRAWN BY	DATE	FIRST USED ON	DO NOT SCALE DWG.
				S.A. SMITH	01/18/13		
				CHECKER	DATE	WEIGHT APPROX.	CAGE CODE
				SAS	02/18/13	83008	
				ENGINEER	DATE	SCALE	SHEET
				SAS	02/18/13	1/8	1 OF 3
				DWG. SIZE	DWG. NO.		
				D	096-6026		

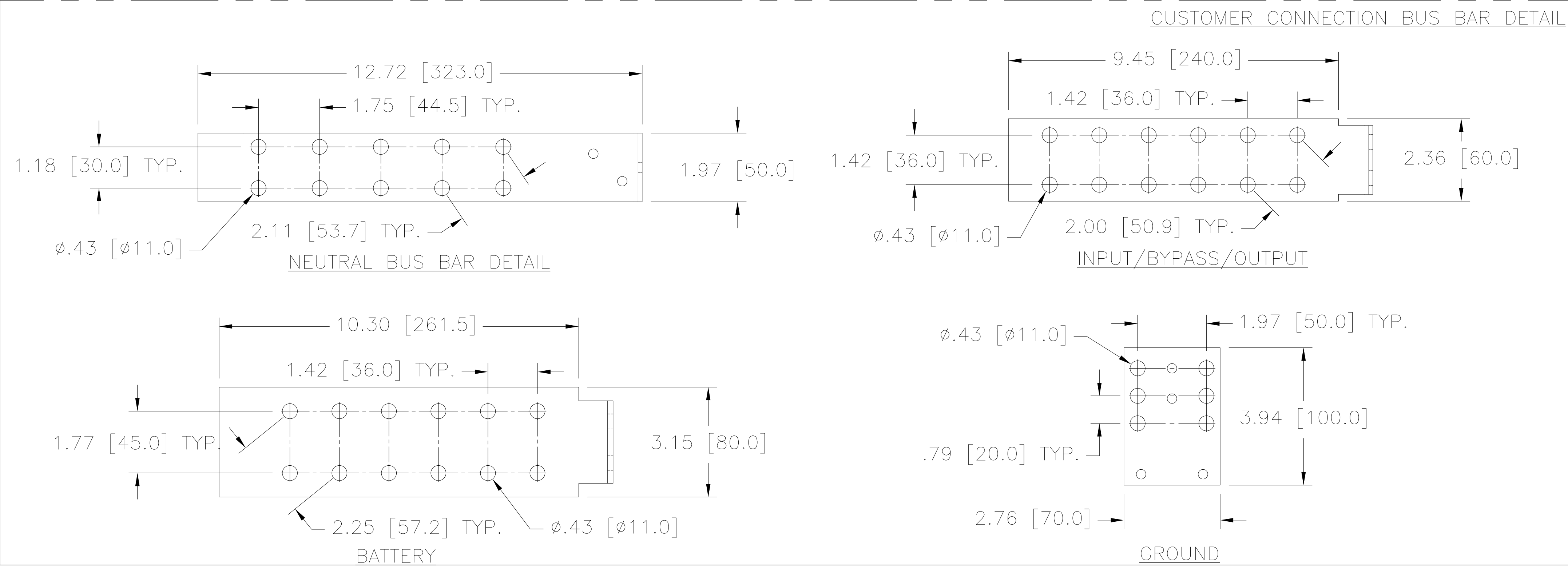
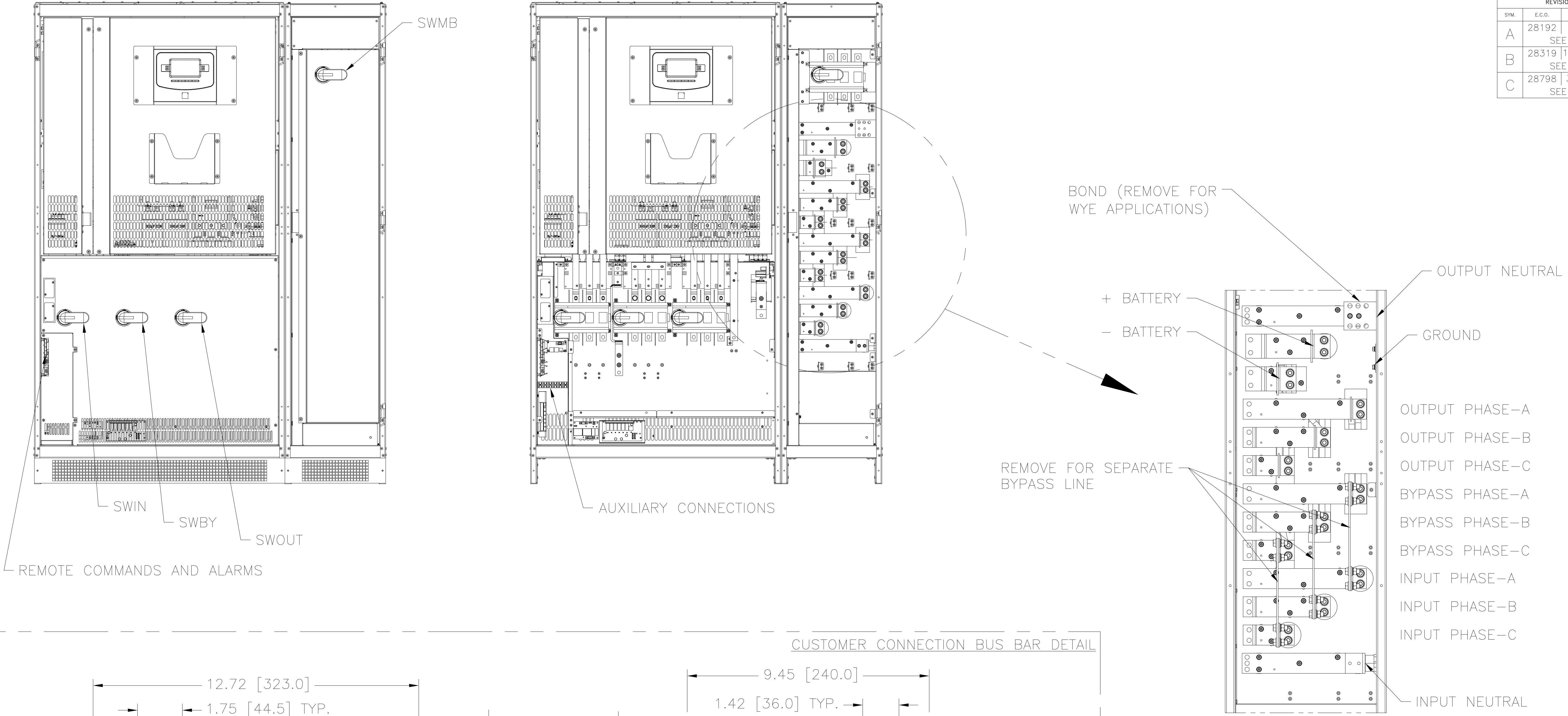


DWG. NO.	096-6026		
DWG. SIZE	D		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28192	6/8/15	SEE SHEET 1
B	28319	11/17/15	
C	28798	3/27/17	SEE SHEET 1



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS HOLES ANGLES DRAFT XX .0005 .005 1° 1-1/2° XXX .005				UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE P 160-250 KVA UNINTERRUPTIBLE POWER SUPPLY				 A Components Corporation of America Company 301 Gessie Boulevard Dayton, Ohio 45403 USA					
MATERIAL :				ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY S.A. SMITH		DATE 01/18/13						FIRST USED ON	
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 SAS		DATE 02/18/13		WEIGHT APPROX.		CAGE CODE 83008		DWG. NO. 096-6026	
						ENGINEER SAS		DATE 02/18/13		SCALE 1/4		SHEET 2 OF 3		D	

DWG. NO.	096-6026		
DWG. SIZE	D		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28192	6/8/15	SEE SHEET 1
B	28319	11/17/15	SEE SHEET 1
C	28798	3/27/17	SEE SHEET 1



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS HOLES .005 ANGLES 1° DRAFT 1-1/2°		UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE P 160-250 KVA UNINTERRUPTIBLE POWER SUPPLY	
MATERIAL :		ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY S.A. SMITH	DATE 01/18/13
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 SAS		DATE 02/18/13	WEIGHT APPROX. 83008
		ENGINEER SAS		DATE 02/18/13	SCALE 1/8
				SHEET 3 OF 3	DWG. NO. 096-6026

