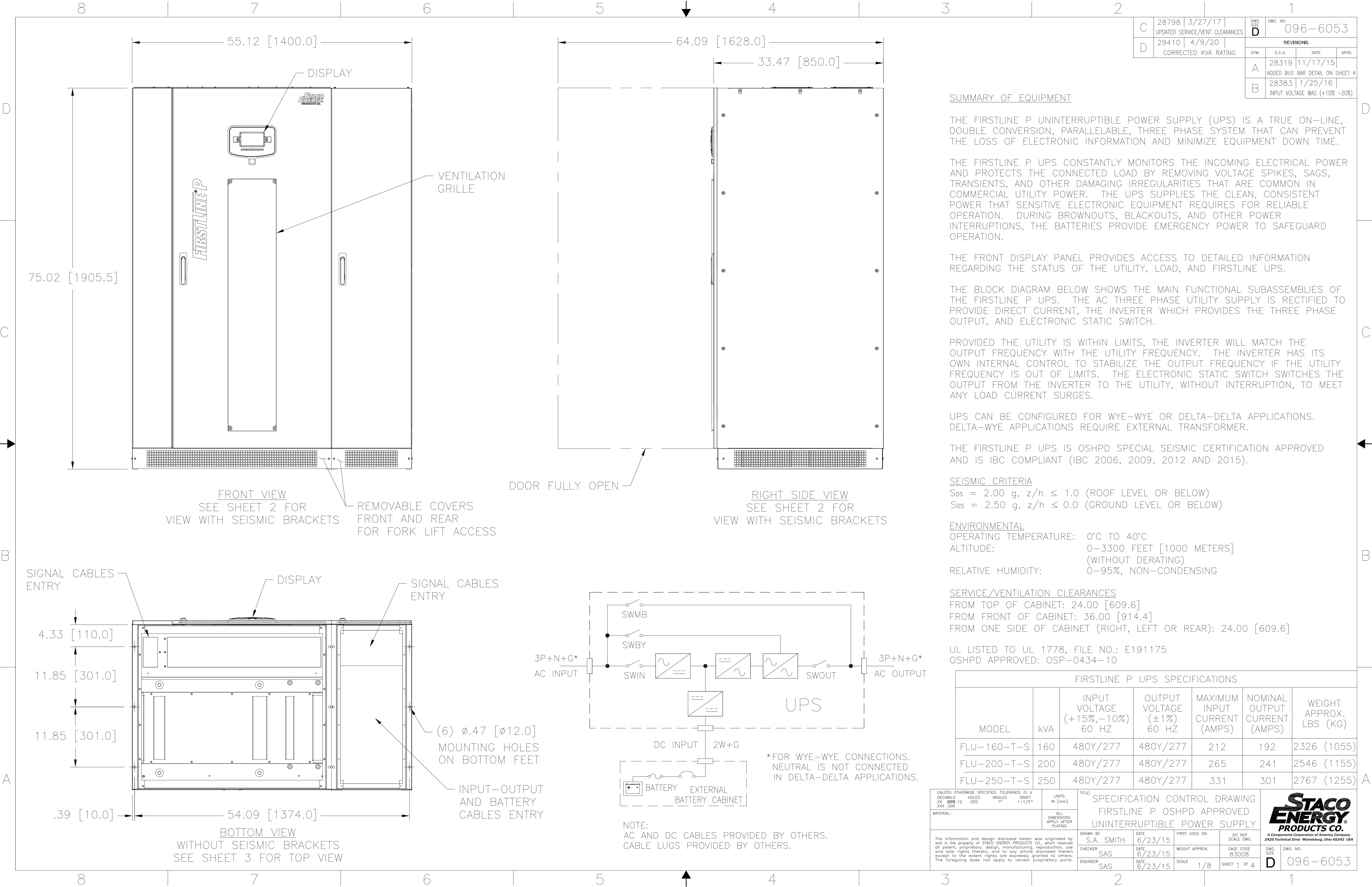




C	28798	3/27/17	DWG. NO. D 096-6053	DWG. NO.				
	UPDATED SERVICE/VENT CLEARANCES			REVISIONS				
D	29410	4/9/20		SYM.	E.C.O.	DATE	APVD.	
	CORRECTED KVA RATING			A	28319	11/17/15	ADDED BUS BAR DETAIL ON SHEET 4	
				B	28383	1/25/16		
INPUT VOLTAGE WAS (+10% -20%)								

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.

THE FIRSTLINE P UPS IS OSHPD SPECIAL SEISMIC CERTIFICATION APPROVED AND IS IBC COMPLIANT (IBC 2006, 2009, 2012 AND 2015).

SEISMIC CRITERIA

S_{ds} = 2.00 g, z/h ≤ 1.0 (ROOF LEVEL OR BELOW)
S_{ds} = 2.50 g, z/h ≤ 0.0 (GROUND LEVEL OR BELOW)

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
OSHPD APPROVED: OSP-0434-10

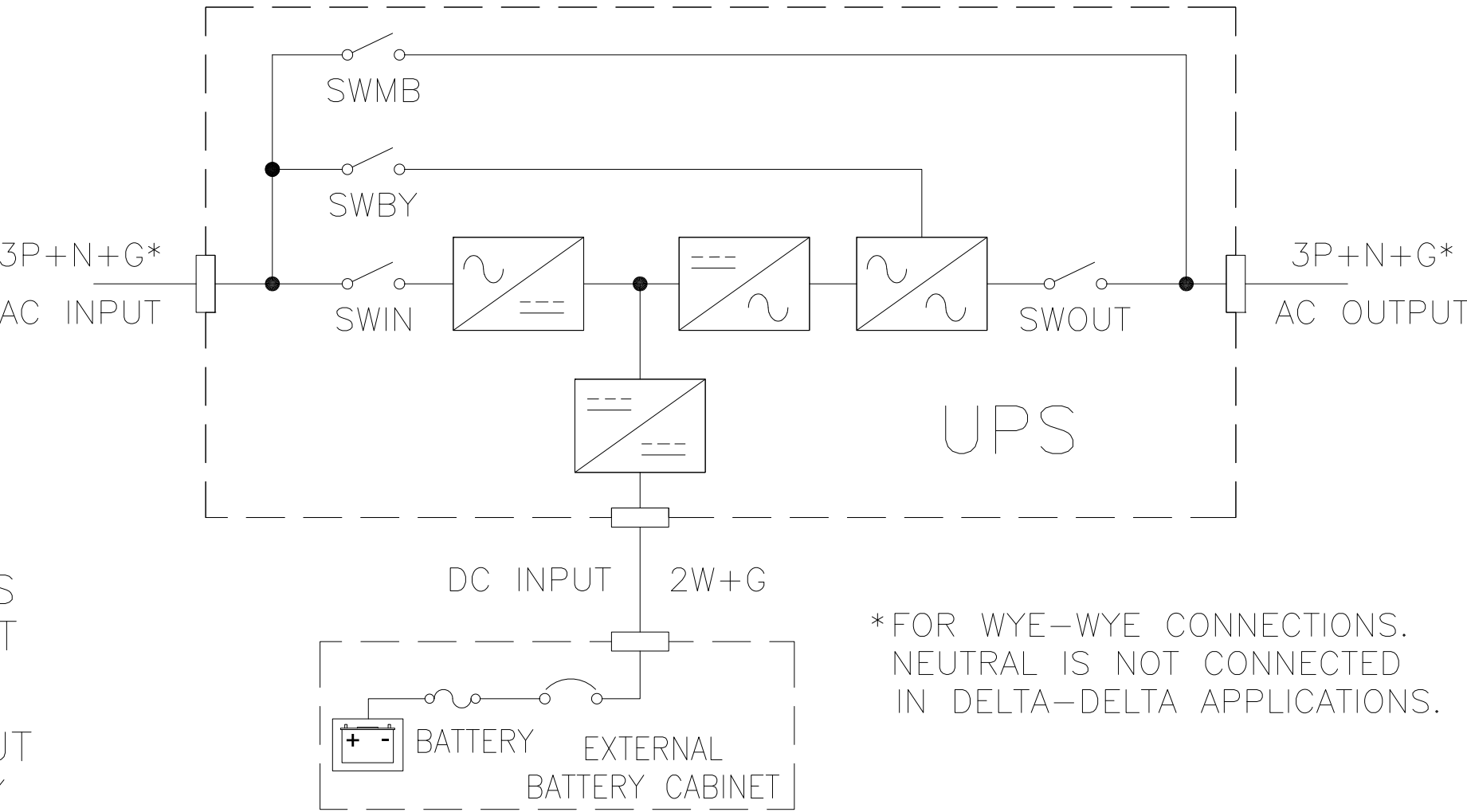
FIRSTLINE P UPS SPECIFICATIONS						
MODEL	kVA	INPUT VOLTAGE (+15%, -10%) 60 HZ	OUTPUT VOLTAGE (±1%) 60 HZ	MAXIMUM INPUT CURRENT (AMPS)	NOMINAL OUTPUT CURRENT (AMPS)	WEIGHT APPROX. LBS (KG)
FLU-160-T-S	160	480Y/277	480Y/277	212	192	2326 (1055)
FLU-200-T-S	200	480Y/277	480Y/277	265	241	2546 (1155)
FLU-250-T-S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

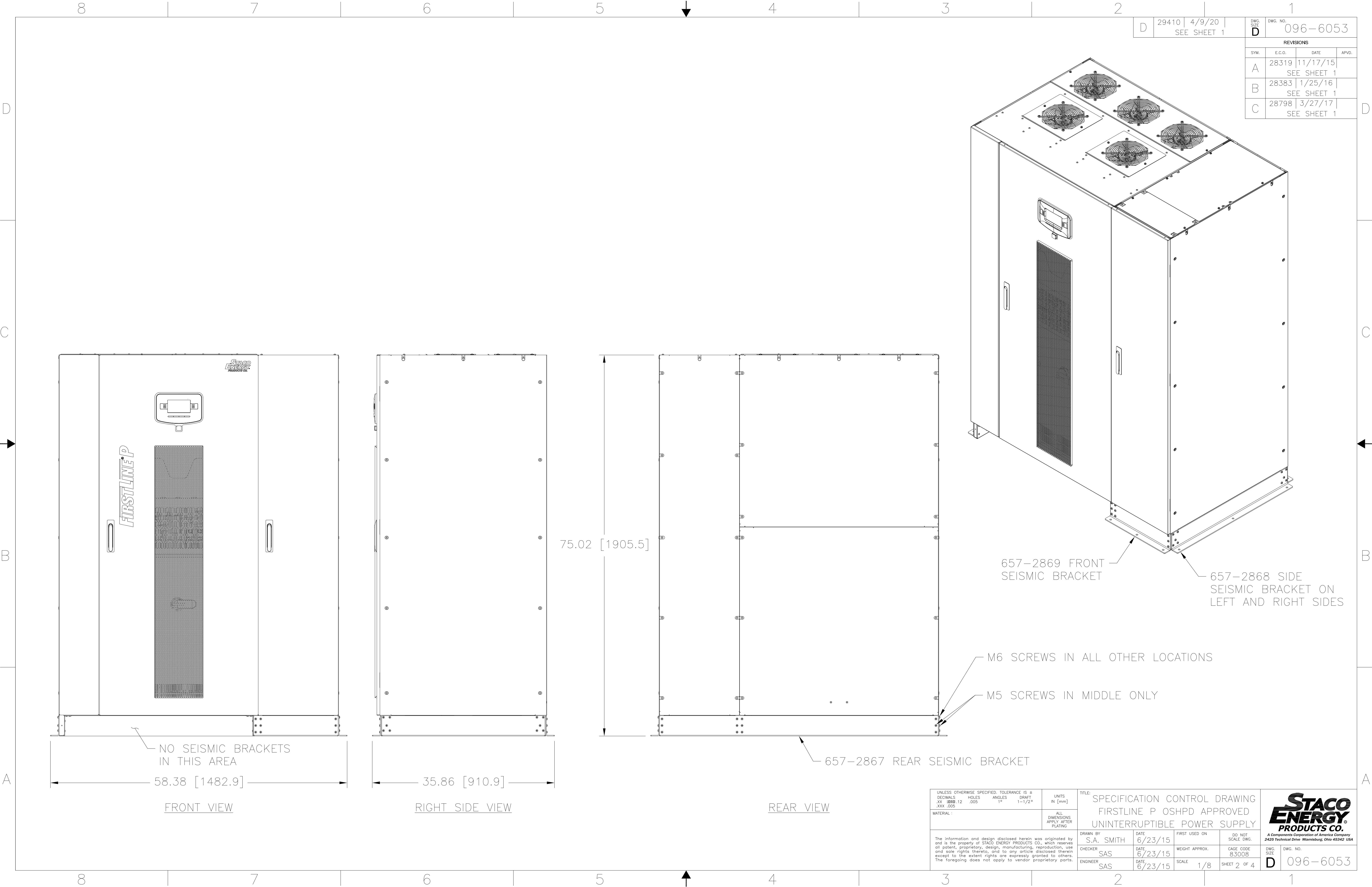
UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .XX HOLES .12° ANGLES 1° DRAFT 1-1/2° MATERIAL: 304L SS		UNITS IN [mm]	TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE P OSHPD APPROVED UNINTERRUPTIBLE POWER SUPPLY				 A Components Corporation of America Company 2425 Technical Drive Miamisburg, Ohio 45342 USA	
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.		ALL DIMENSIONS APPLY AFTER PLATING	DRAWN BY	DATE	FIRST USED ON	DO NOT SCALE DWG.	DWG. SIZE	DWG. NO.
			CHECKER	DATE	WEIGHT APPROX.	CAGE CODE		
			ENGINEER	DATE	SCALE	SHEET		
			S.A. SMITH	6/23/15			D	096-6053
			SAS	6/23/15		83008		
			SAS	6/23/15	1/8	1 OF 4		



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

*FOR WYE-WYE CONNECTIONS.
NEUTRAL IS NOT CONNECTED
IN DELTA-DELTA APPLICATIONS.





D	29410	4/9/20	SEE SHEET 1	DWG. SIZE D	DWG. NO. 096-6053
REVISIONS					
SYM.	E.C.O.	DATE	APVD.		
A	28319	11/17/15	SEE SHEET 1		
B	28383	1/25/16	SEE SHEET 1		
C	28798	3/27/17	SEE SHEET 1		

657-2869 FRONT SEISMIC BRACKET

657-2868 SIDE SEISMIC BRACKET ON LEFT AND RIGHT SIDES

M6 SCREWS IN ALL OTHER LOCATIONS

M5 SCREWS IN MIDDLE ONLY

657-2867 REAR SEISMIC BRACKET

NO SEISMIC BRACKETS IN THIS AREA

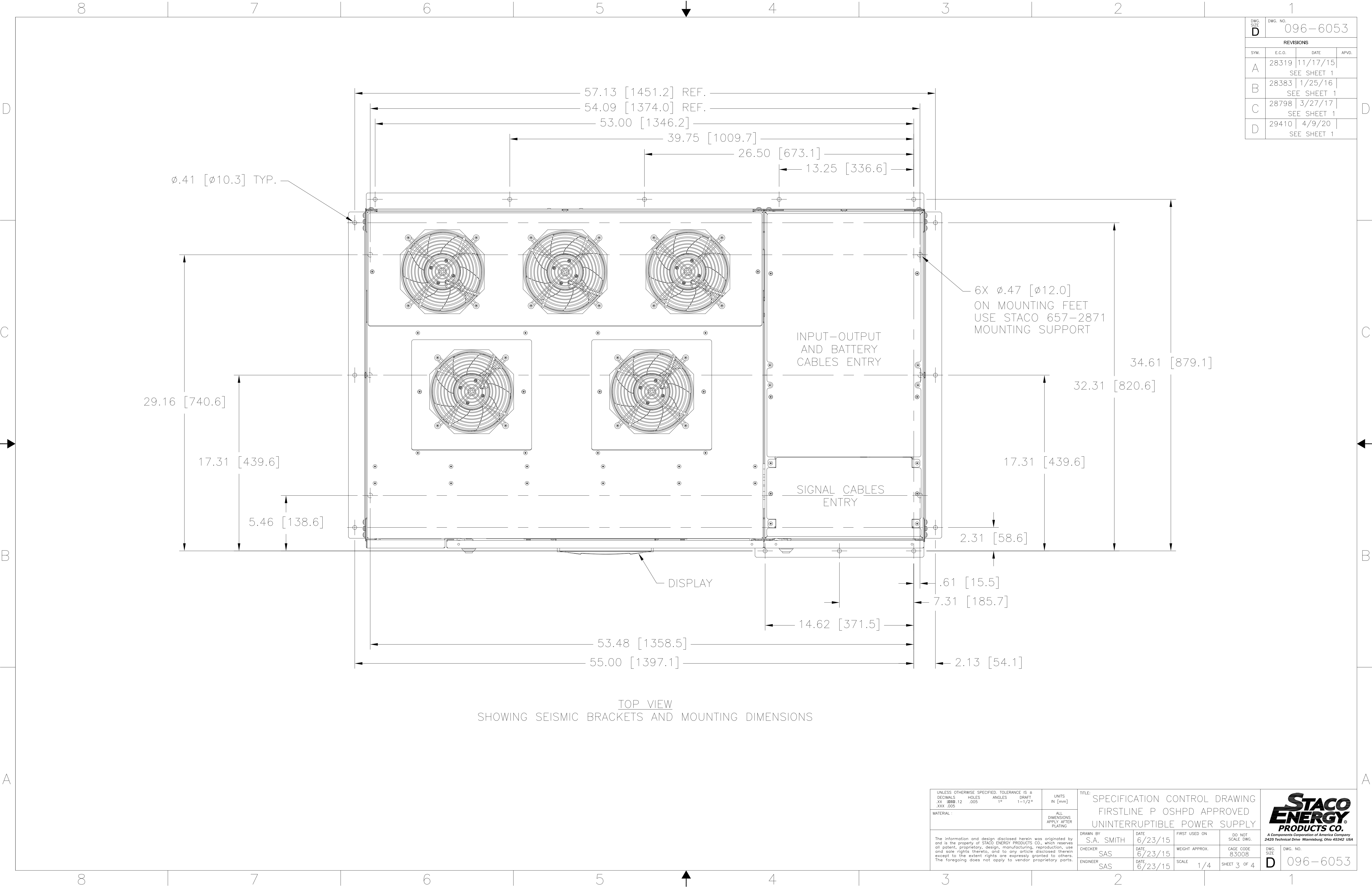
FRONT VIEW

RIGHT SIDE VIEW

REAR VIEW

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS HOLES ANGLES DRAFT .XX .0012 1° 1-1/2° .XXX .005				UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE P OSHPD APPROVED UNINTERRUPTIBLE POWER SUPPLY			
MATERIAL: 1				ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY S.A. SMITH	DATE 6/23/15	FIRST USED ON	DO NOT SCALE DWG.
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				ENGINEER SAS		DATE 6/23/15	SCALE 1/8	SHEET 2 OF 4	
								DWG. SIZE D	DWG. NO. 096-6053





DWG. NO.	096-6053		
DWG. SIZE	D		
REVISIONS			
SYM.	E.C.O.	DATE	APVD.
A	28319	11/17/15	SEE SHEET 1
B	28383	1/25/16	SEE SHEET 1
C	28798	3/27/17	SEE SHEET 1
D	29410	4/9/20	SEE SHEET 1

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS .005 Holes .12 ANGLES 1° DRAFT 1-1/2° MATERIAL: 3030 .005		UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE P OSHPD APPROVED UNINTERRUPTIBLE POWER SUPPLY			
ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY S.A. SMITH		DATE 6/23/15	FIRST USED ON	DO NOT SCALE DWG.	STACO ENERGY PRODUCTS CO. A Components Corporation of America Company 2425 Technical Drive, Miamisburg, Ohio 45342 USA
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		ENGINEER SAS		DATE 6/23/15	SCALE 1/4	SHEET 3 OF 4	
							DWG. NO. 096-6053

