

C	28886	7/24/17	DWG. SIZE D	DWG. NO.	
	UPDATED	-100 WEIGHT		096-6052	
REVISIONS					
SYM.	E.C.O.	DATE		APVD.	
A	28383	1/25/16		INPUT VOLTAGE WAS (+10% -20%)	
B	28645	11/14/16		UPDATED CAB DEPTH	

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]

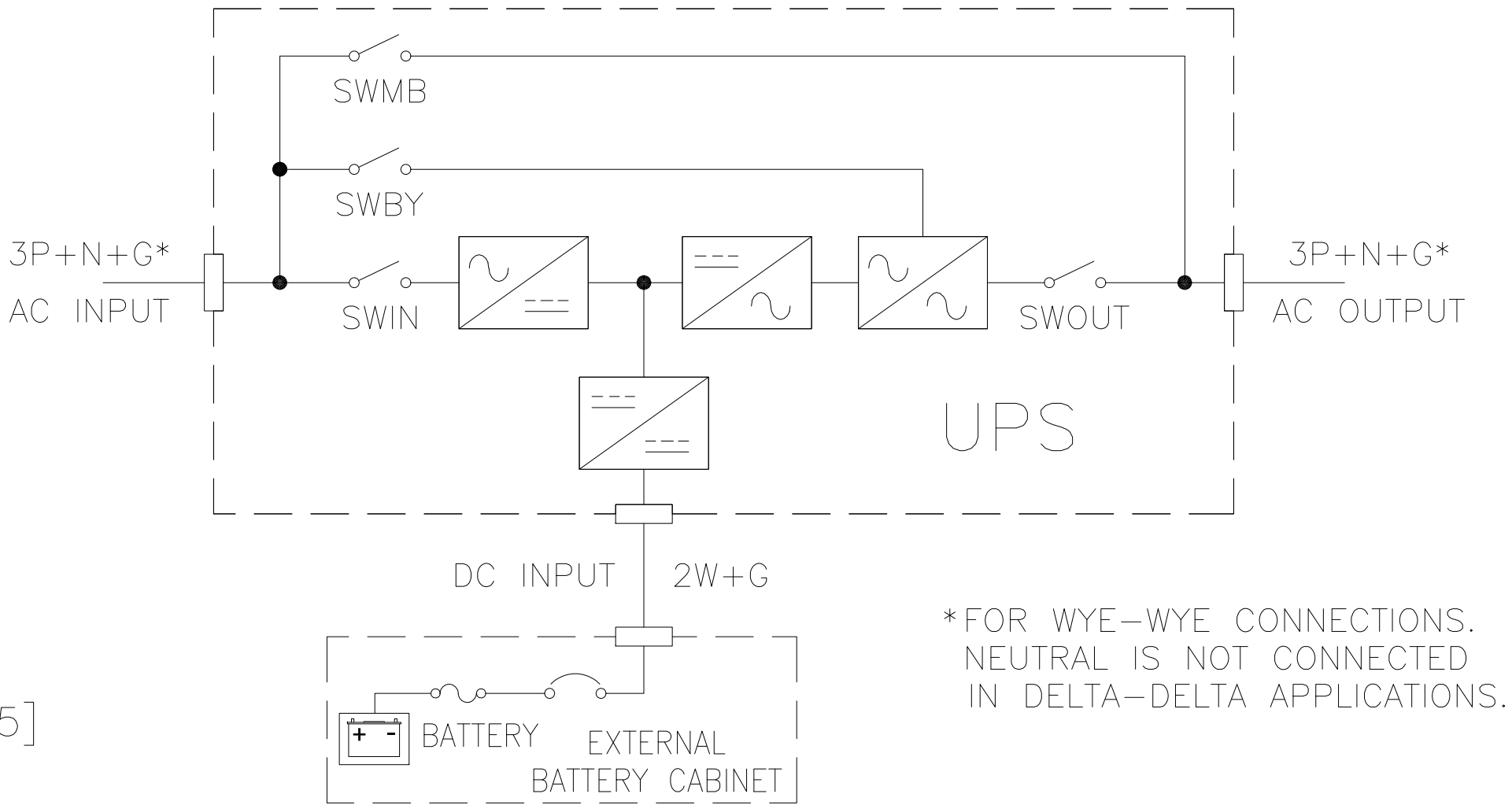
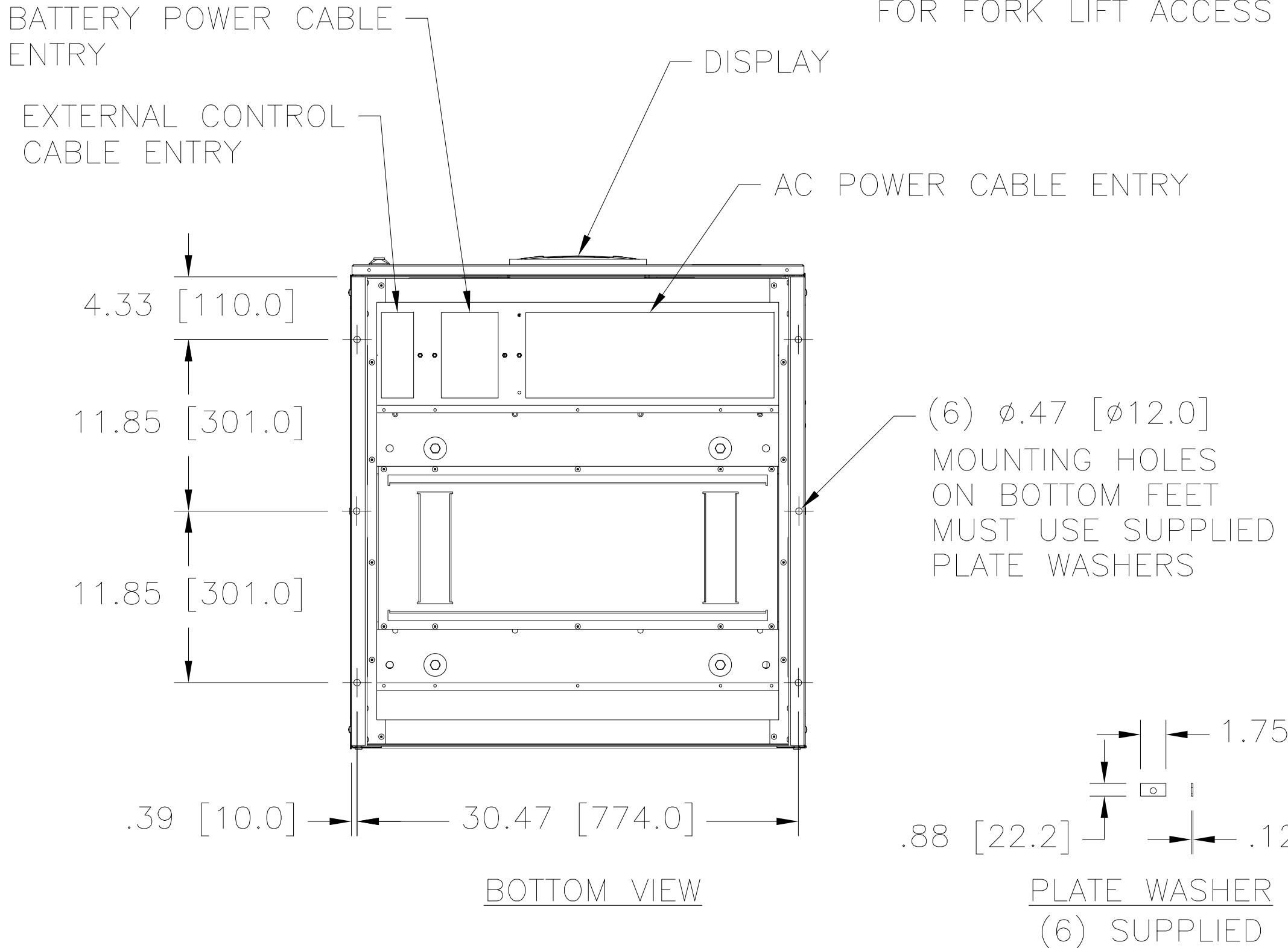
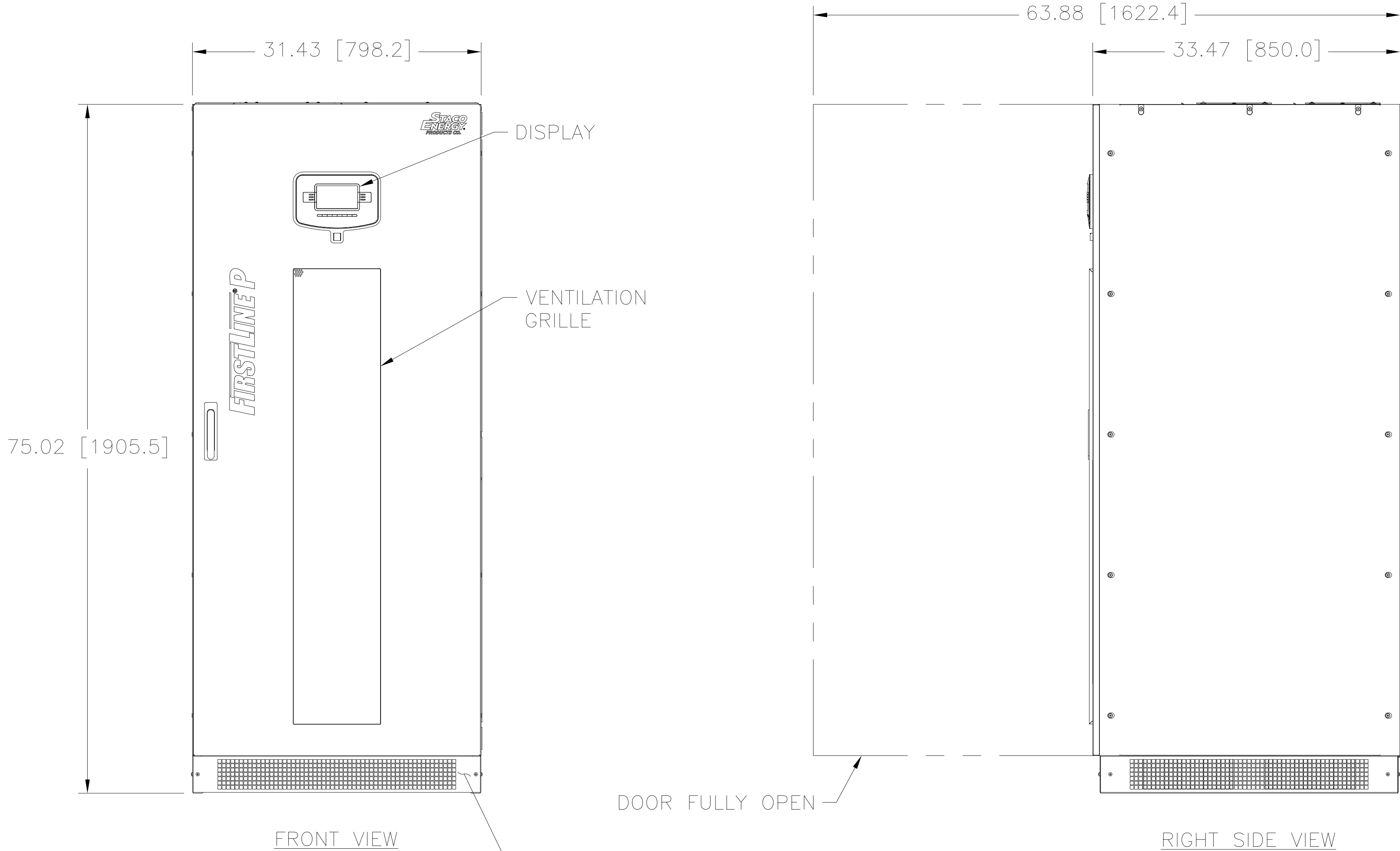
UL LISTED TO UL 1778, FILE NO.: E191175
OSHPD APPROVED: OSP-0434-10

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-065-00-S	65	480Y/277	480Y/277	89	78.2	1499 (680)
FLU-080-00-S	80	480Y/277	480Y/277	109	96.3	1499 (680)
FLU-100-00-S	100	480Y/277	480Y/277	136	120.3	1742 (790)
FLU-125-00-S	125	480Y/277	480Y/277	160	150.4	1742 (790)

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ± DECIMALS XX .12 XXX .005		Holes .005 ANGLES 1° DRAFT 1-1/2°	UNITS IN [mm]		TITLE: SPECIFICATION CONTROL DRAWING FIRSTLINE P OSHPD APPROVED UNINTERRUPTIBLE POWER SUPPLY			
MATERIAL :			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	D	



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

