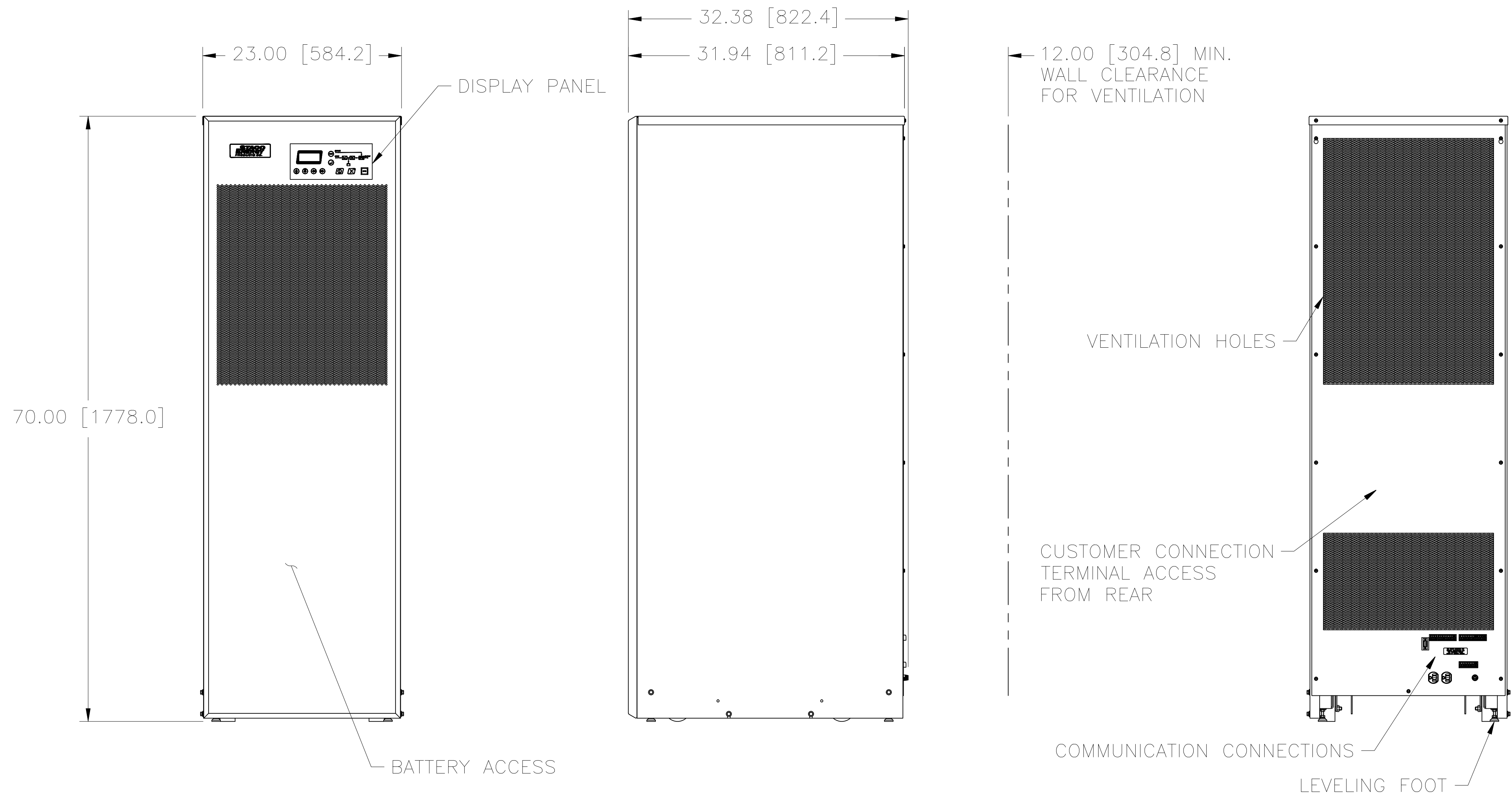


DWG. NO.	096-6006		
DWG. SIZE	D		
REVISIONS			
SYM.	E.C.N.	DATE	APVD.
A	27244	4/9/10	
UPDATED RUN TIMES			



SUMMARY OF EQUIPMENT

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

THE FIRSTLINE 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 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.

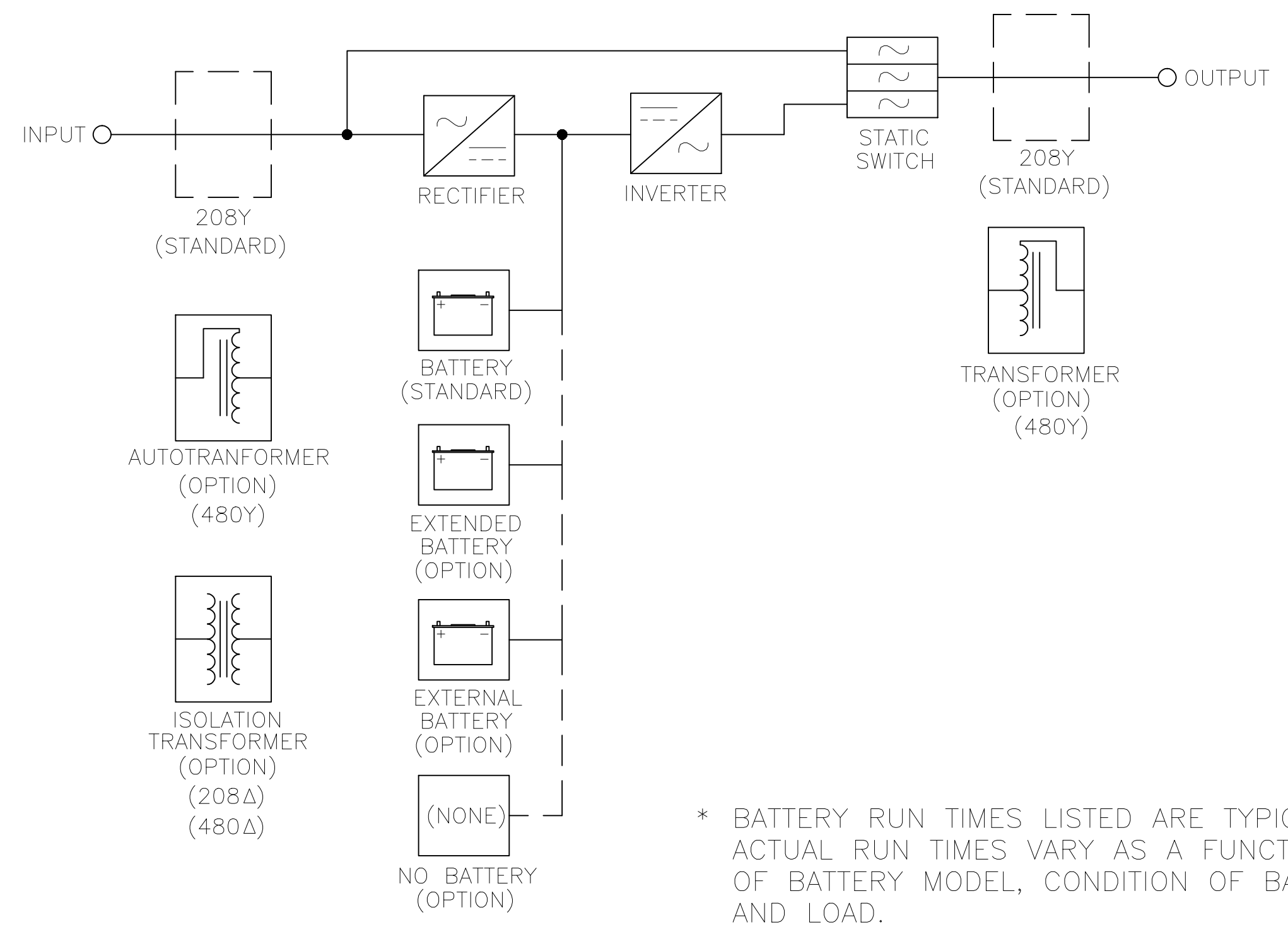
PROVIDED THE UTILITY IS WITHIN LIMITS, THE INVERTER WILL MATCH THE OUTPUT FREQUENCY WITH THE UTILITY FREQUENCY. THE INVERTER HAS ITS OWN INTERNAL CONTROL TO STABILIZE THE OUTPUT FREQUENCY IF THE UTILITY FREQUENCY IS OUT OF LIMITS. THE ELECTRONIC STATIC SWITCH SWITCHES THE OUTPUT FROM THE INVERTER TO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

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

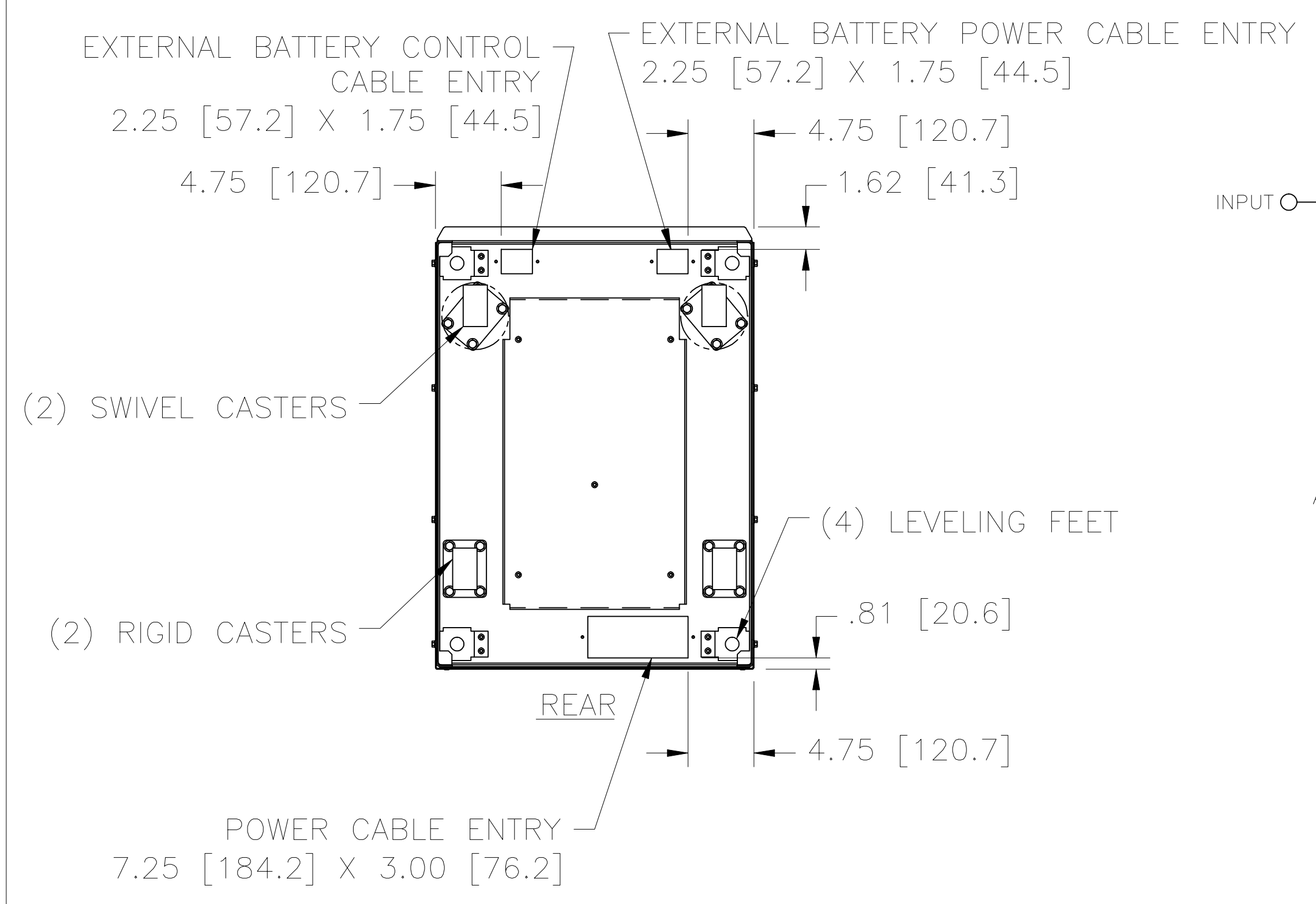
SERVICE CLEARANCES
 FROM SIDE OF CABINET: 24.00 [609.6]
 FROM FRONT OF CABINET: 36.00 [914.4]

UL LISTED TO UL 1778, FILE NO.: E191175
 220Y/127 MODELS ARE NOT UL LISTED

NOTE: ADD -1 TO MODEL NUMBER FOR 208V OR 480V DELTA INPUT OPTION.



* BATTERY RUN TIMES LISTED ARE TYPICAL. ACTUAL RUN TIMES VARY AS A FUNCTION OF BATTERY MODEL, CONDITION OF BATTERY AND LOAD.



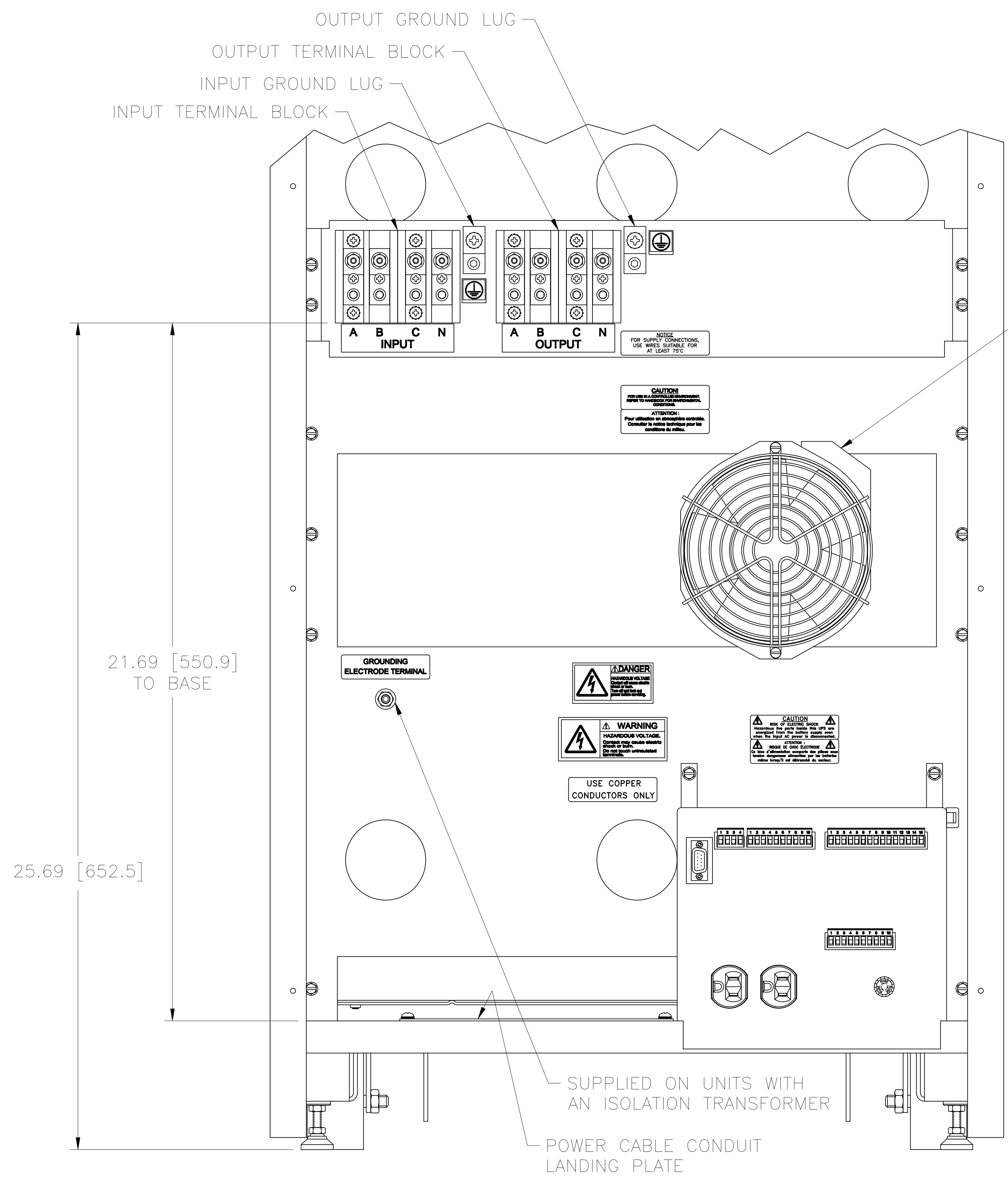
FIRSTLINE UPS SPECIFICATIONS						
MODEL	KVA	INPUT VOLTAGE (+10%, -20%) 60 HZ	OUTPUT VOLTAGE (±1%) 60 HZ	MAXIMUM INPUT CURRENT (AMPS)	MAXIMUM OUTPUT CURRENT (AMPS)	BATTERY* RUN TIME (MINUTES)
FLU-30T-20-1	30	208Y/120	208Y/120	100	83	8
FLU-30T-22-1	30	220Y/127	220Y/127	100	78	9
FLU-30T-20-2	30	208Y/120	208Y/120	100	83	22
FLU-30T-22-2	30	220Y/127	220Y/127	100	78	24
FLU-30T-42-1	30	480Y/277	208Y/120	48	83	8
FLU-30T-44-1	30	480Y/277	480Y/277	48	30	8

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±		UNITS		TITLE	
DECIMALS	HOLE	ANGLES	DRAFT	SPECIFICATION CONTROL DRAWING	
.XX	.000	1°	1-1/2°	FIRSTLINE UPS 30 KVA	
MATERIAL:		ALL DIMENSIONS APPLY AFTER PLATING		UNINTERRUPTIBLE POWER SUPPLY	
DRAWN BY		DATE	FIRST USED ON	DO NOT SCALE DWG.	
CHECKER		DATE	WEIGHT APPROX.	CAGE CODE	
ENGINEER		DATE	SCALE	SHEET 1 OF 2	
		DATE	SCALE	SHEET 1 OF 2	

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STACO ENERGY PRODUCTS CO.
 A Components Corporation of America Company
 301 Cassin Boulevard Dayton, Ohio 45403 USA
 DWG. NO. 096-6006

DWG. NO.	096-6006		
DWG. SIZE	D		
REVISIONS			
SYM.	E.C.N.	DATE	APVD.
A	27244	4/9/10	
UPDATED RUN TIMES			



NOTICE
FOR SUPPLY CONNECTIONS,
USE WIRES SUITABLE FOR
AT LEAST 75°C

CAUTION
ATTENTION:
Pour éviter les dommages causés,
Consulter le manuel technique pour les
conditions de câblage.

⚠ DANGER
HAZARDOUS VOLTAGE
DANGER
HAZARDEUSE TENSION
DANGER

⚠ WARNING
HAZARDOUS VOLTAGE
DANGER
HAZARDEUSE TENSION
DANGER

USE COPPER
CONDUCTORS ONLY

⚠ CAUTION
NEVER USE COPPER WIRE
WHENEVER THE MAIN CIRCUIT
IS EQUIPPED WITH AN ISOLATION
TRANSFORMER.
NEVER USE COPPER WIRE
WHENEVER THE MAIN CIRCUIT
IS EQUIPPED WITH AN ISOLATION
TRANSFORMER.

EXHAUST FAN SUPPLIED ON UNITS WITH
INPUT AND OUTPUT TRANSFORMERS ONLY

WIRE SIZING:

INPUT TERMINAL BLOCK

UPS RATING	VOLTAGE	INPUT TRANSFORMER TYPE	PHASE CONDUCTOR MIN/MAX	NEUTRAL CONDUCTOR MIN/MAX	NEUTRAL CONDUCTOR W/NON-LINEAR LOADS MIN/MAX	GROUND CONDUCTOR MIN/MAX
30 KVA	208Y/120	NA	#1-0/2-0	#1-0/2-0	#1-0/2-0	#6/1-0
30 KVA	208Δ	ISOLATION	#1-0/2-0	(NONE)	(NONE)	#6/1-0
30 KVA	220Y/127	NA	#1-0/2-0	#1-0/2-0	#1-0/2-0	#6/1-0
30 KVA	480Y/277	AUTO	#4/2-0	#4/2-0	#4/2-0	#10/1-0
30 KVA	480Δ	ISOLATION	#4/2-0	(NONE)	(NONE)	#10/1-0

OUTPUT TERMINAL BLOCK

(MINIMUM WIRE SIZE REQUIRED TO SUPPORT RATED LOAD. SMALLER WIRE MAY BE USED IF RATED LOAD CURRENT IS NOT NEEDED AND THE APPROPRIATE CIRCUIT PROTECTION IS APPLIED.)

UPS RATING	VOLTAGE	OUTPUT TRANSFORMER	PHASE CONDUCTOR	NEUTRAL CONDUCTOR	NEUTRAL CONDUCTOR W/NON-LINEAR LOADS	GROUND CONDUCTOR
30 KVA	208Y/120	NA	#1	#1	#1	#6
30 KVA	220Y/127	NA	#1	#1	#1	#6
30 KVA	480Y/277	AUTO	#4	#4	#4	#10

NOTE: NO OUTPUT CIRCUIT PROTECTION IS REQUIRED IF THE OUTPUT CONDUCTOR SIZES ARE AT LEAST AS LARGE AS THE INPUT CONDUCTORS, UNLESS THE UPS IS EQUIPPED WITH AN INPUT ISOLATION TRANSFORMER. IF THE UPS IS EQUIPPED WITH AN INPUT ISOLATION TRANSFORMER, THE UPS IS CONSIDERED A SEPARATELY DERIVED SOURCE AND CIRCUIT PROTECTION FOR THE OUTPUT CONDUCTORS MUST BE PROVIDED.

USE AT LEAST 75°C RATED COPPER WIRE. MINIMUM WIRE SIZE IS BASED ON 208Y/120 FULL LOAD RATINGS APPLIED TO NEC CODE TABLE 310-16. CODE MAY REQUIRE A LARGE AWG SIZE THAN SHOWN IN THIS TABLE BECAUSE OF TEMPERATURE, NUMBER OF CONDUCTORS IN THE CONDUIT, OR LONG SERVICE RUNS. FOLLOW LOCAL REQUIREMENTS.

REAR VIEW
REAR PANEL REMOVED

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS #	UNITS	TITLE:	
DECIMALS .06 .005	IN [mm]	SPECIFICATION CONTROL DRAWING FIRSTLINE UPS 30 KVA UNINTERRUPTIBLE POWER SUPPLY	
MATERIAL:	ALL DIMENSIONS APPLY AFTER PLATING	DRAWN BY	
		CHECKER	
		ENGINEER	
		DATE	
		SCALE	
		FIRST USED ON	
		DO NOT SCALE DWG.	
		WEIGHT APPROX.	
		CAGE CODE	
		DWG. NO.	
		SHEET 2 OF 2	

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