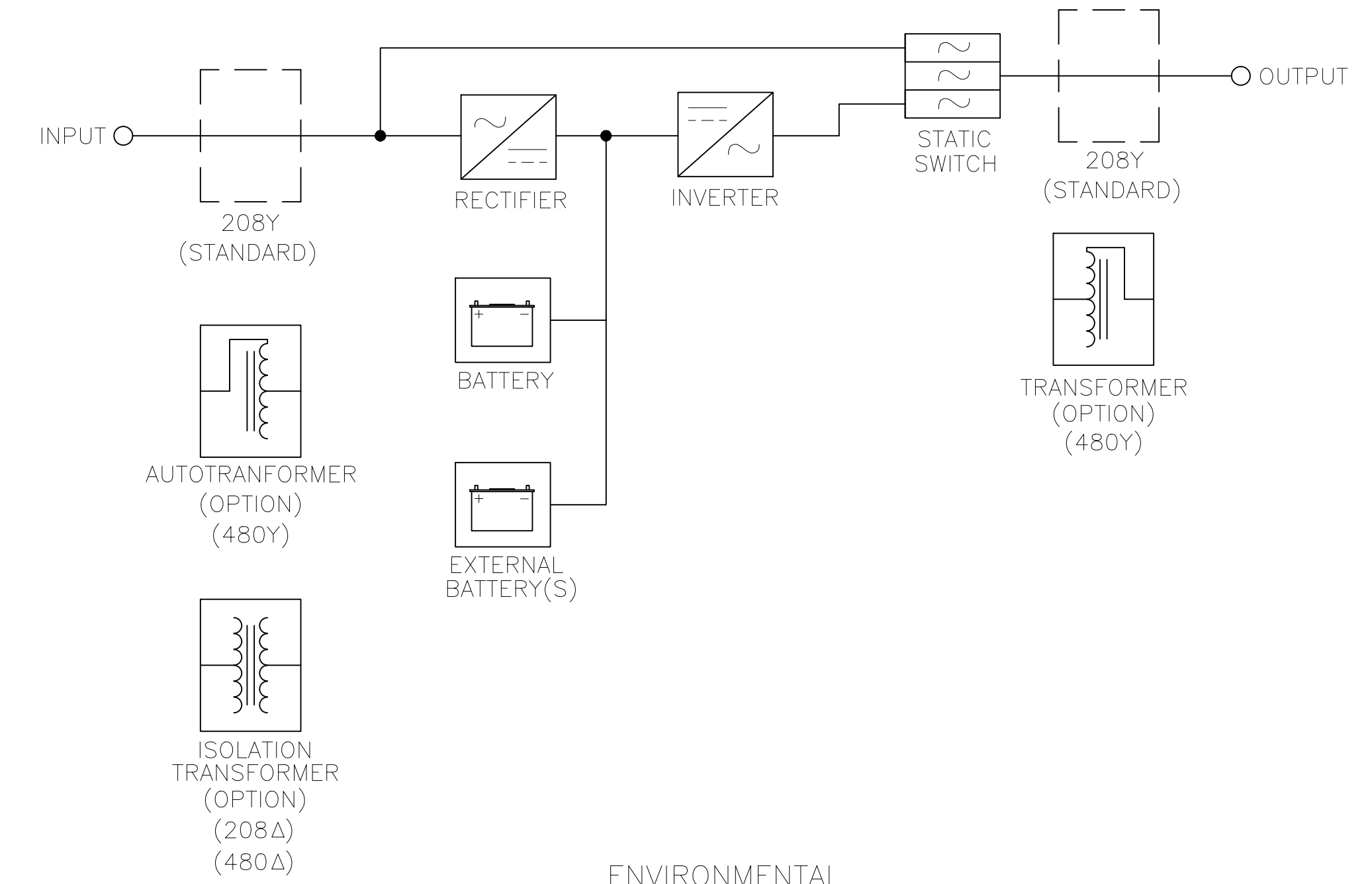


6.00 [152.4] MIN. WALL CLEARANCE FOR VENTILATION

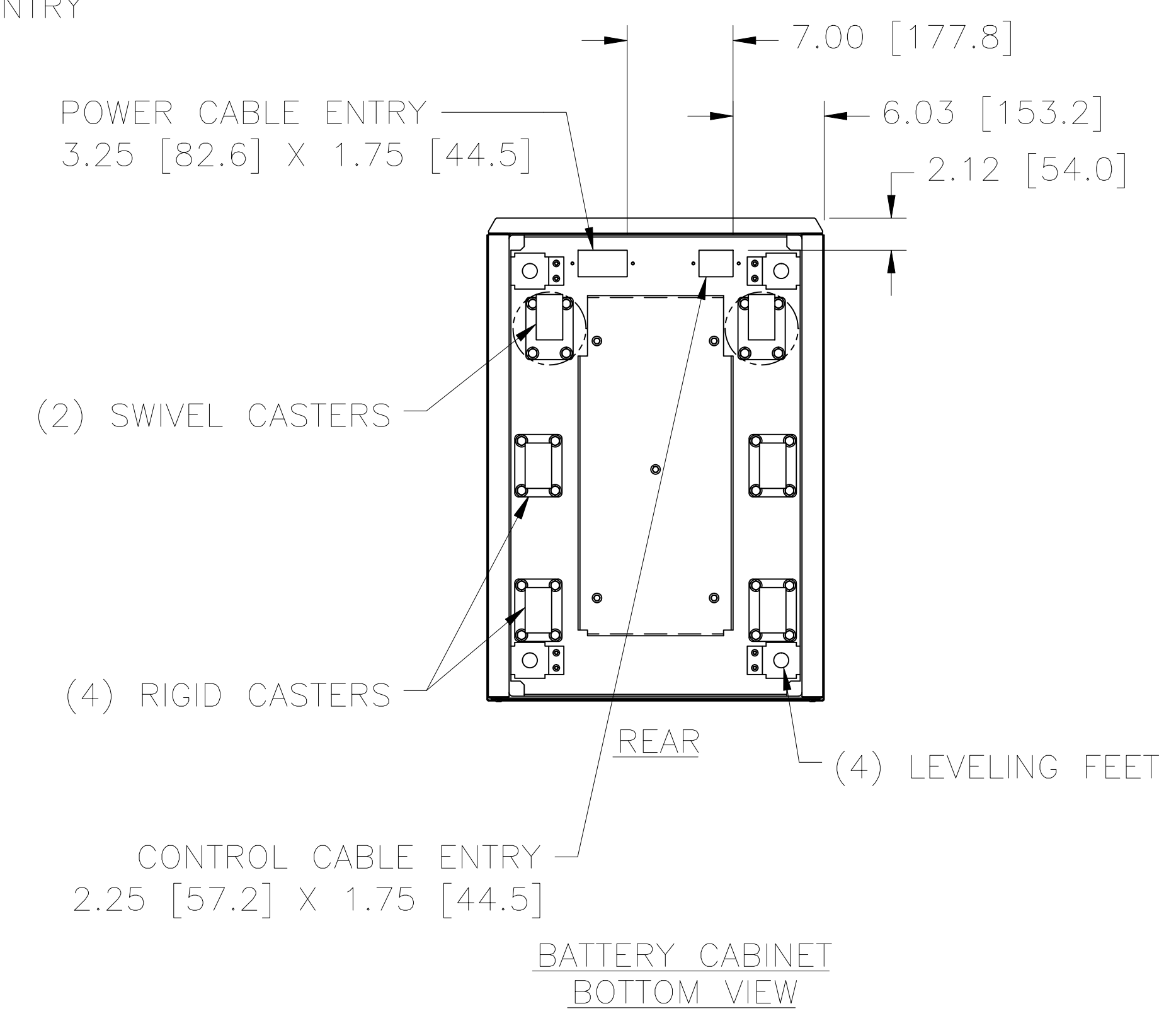
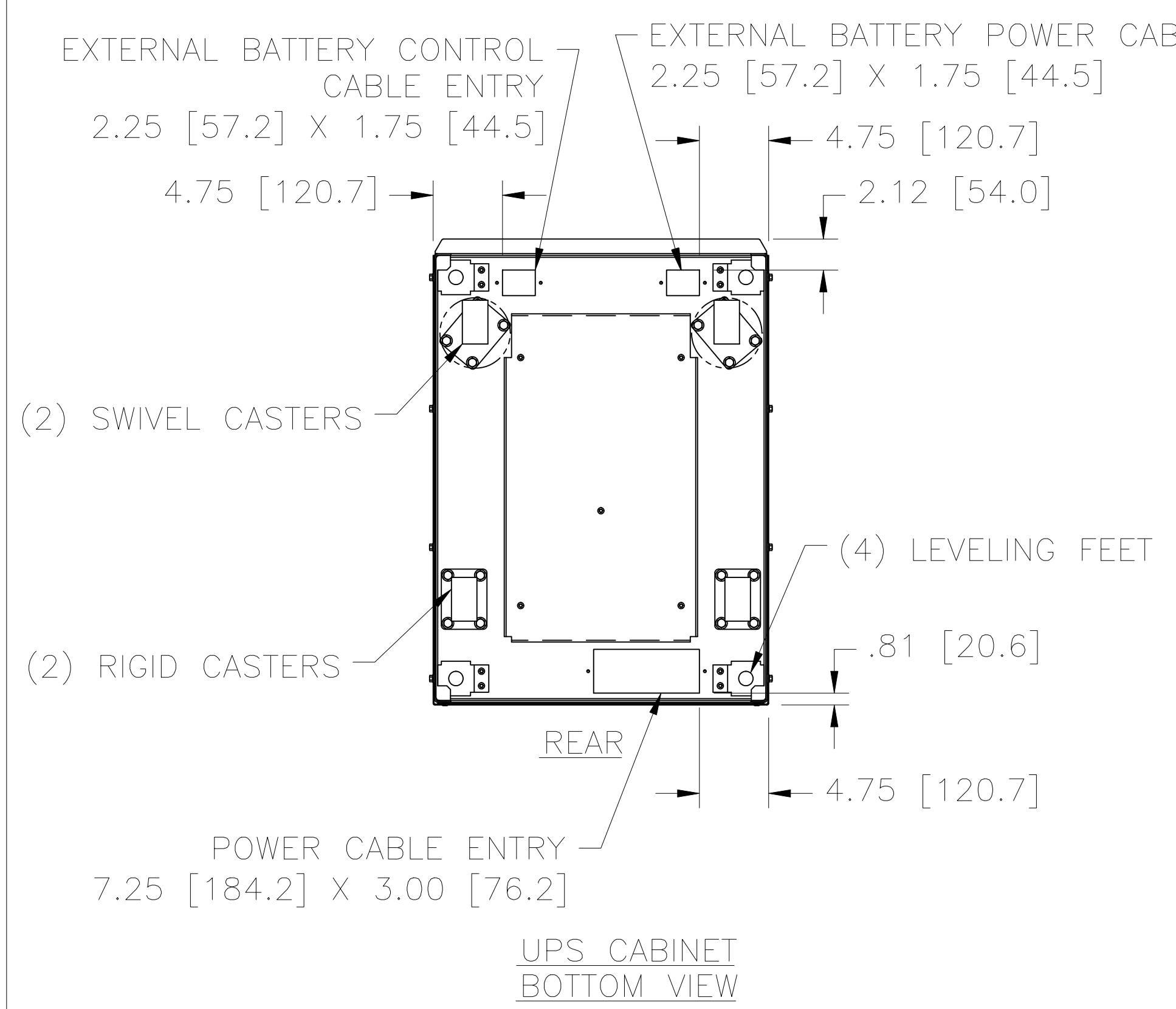


ENVIRONMENTAL
 OPERATING TEMPERATURE: 0°C TO 40°C
 ALTITUDE: 0-3300 FEET [1000 METERS] (WITHOUT DERATING)
 RELATIVE HUMIDITY: 0-95%, NON-CONDENSING

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

UL LISTED TO UL924, FILE NO.: E191175

- NOTES:
 1. REPLACE -N WITH -B FOR BATTERY CABINET DISCONNECT BREAKER OPTION
 2. ADD -I TO MODEL NUMBER FOR 208V OR 480V DELTA INPUT OPTION.
 *- 2 CABINETS ON FLU924-16-20-N-I AND FLU924-16-20-B-I UNITS.



FIRSTLINE UPS SPECIFICATIONS							
MODEL	KW	INPUT VOLTAGE (+10%, -20%) 60 HZ	OUTPUT VOLTAGE (±1%) 60 HZ	MAXIMUM INPUT CURRENT (AMPS)	MAXIMUM OUTPUT CURRENT (AMPS)	NUMBER OF BATTER CABINETS	BATTERY RUN TIME (MINUTES)
FLU924-8-20-N	8	208Y/120	208Y/120	41	22	1	90
FLU924-8-42-N	8	480Y/277	208Y/120	18	22	1	90
FLU924-8-44-N	8	480Y/277	480Y/277	18	10	1	90
FLU924-12-20-N	12	208Y/120	208Y/120	55	33	1	90
FLU924-12-42-N	12	480Y/277	208Y/120	24	33	1	90
FLU924-12-44-N	12	480Y/277	480Y/277	24	15	1	90
FLU924-16-20-N	16	208Y/120	208Y/120	69	44	1*	90
FLU924-16-42-N	16	480Y/277	208Y/120	30	44	2	90
FLU924-16-44-N	16	480Y/277	480Y/277	30	19	2	90

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS ±
 DECIMALS HOLES .005 ANGLES DRAFT
 XX .00106 1° 1-1/2°
 .XXX .005

UNITS: IN [mm]

MATERIAL: ALL DIMENSIONS APPLY AFTER PLATING

TITLE: SPECIFICATION CONTROL DRAWING
 FIRSTLINE UL924 8KW-16KW
 EMERGENCY LIGHTING SYSTEM

DO NOT SCALE DWG.

CAGE CODE 83008

DWG. NO. 096-6004

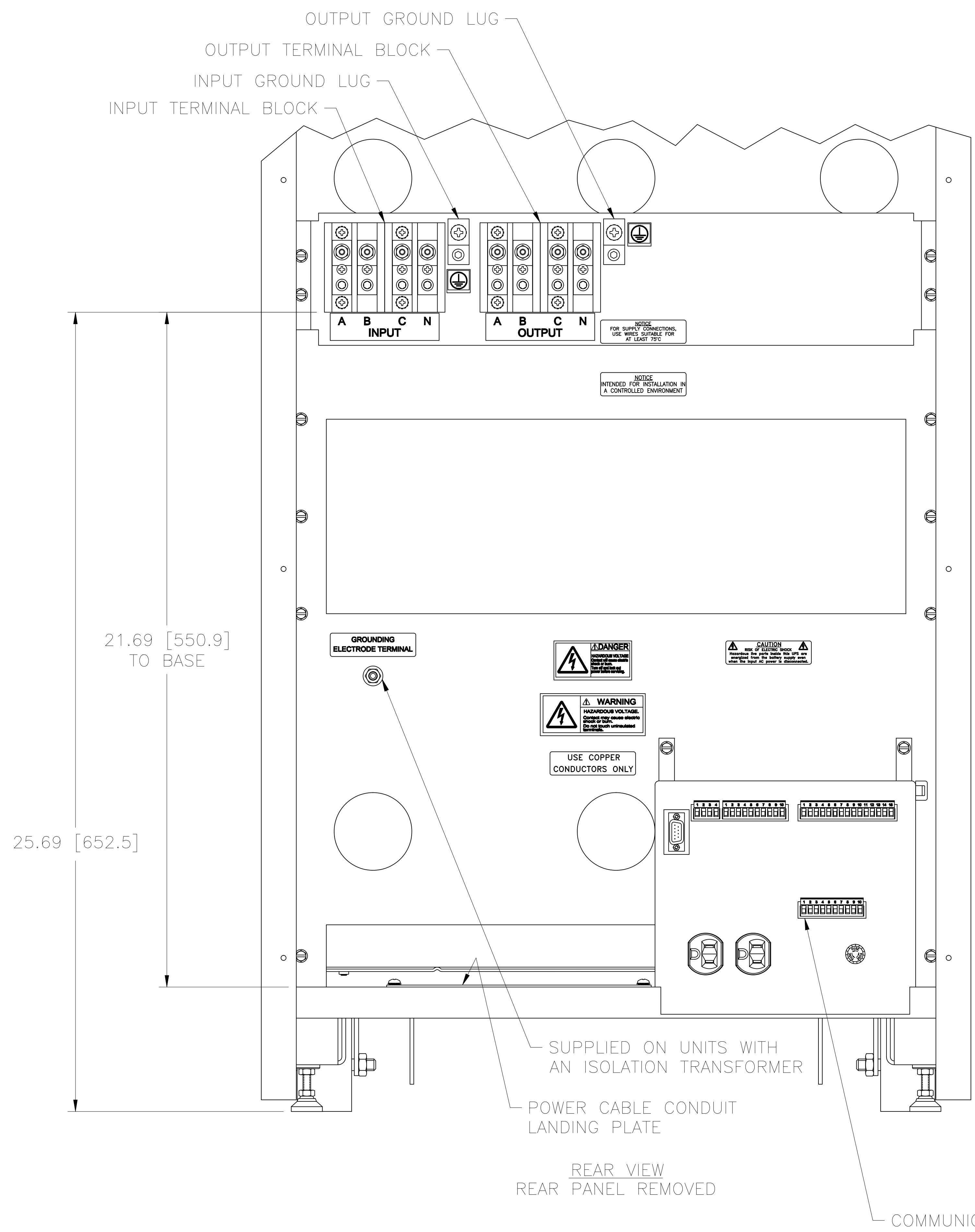
DATE 7/3/08
 DATE 7/7/08
 DATE 7/7/08

DRAWN BY S.A. SMITH
 CHECKER SAS
 ENGINEER SAS

FIRST USED ON
 WEIGHT APPROX.
 SCALE 1/8

SHEET 1 OF 3

STACO ENERGY PRODUCTS CO.
 A Components Corporation of America Company
 301 Cassin Boulevard Dayton, Ohio 45403 USA



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
8KW	208Y/120	NA	#8/2-0	#8/2-0	#6/2-0	#8/1-0
8KW	208Δ	ISOLATION	#8/2-0	(NONE)	(NONE)	#8/1-0
8KW	480Y/277	AUTO	#10/2-0	#10/2-0	#8/2-0	#8/1-0
8KW	480Δ	ISOLATION	#10/2-0	(NONE)	(NONE)	#8/1-0
12KW	208Y/127	NA	#6/2-0	#6/2-0	#4/2-0	#8/1-0
12KW	208Δ	ISOLATION	#6/2-0	(NONE)	(NONE)	#8/1-0
12KW	480Y/277	AUTO	#8/2-0	#8/2-0	#6/2-0	#8/1-0
12KW	480Δ	ISOLATION	#8/2-0	(NONE)	(NONE)	#8/1-0
16KW	208Y/127	NA	#4/2-0	#4/2-0	#2/2-0	#6/1-0
16KW	208Δ	ISOLATION	#4/2-0	(NONE)	(NONE)	#6/1-0
16KW	480Y/277	AUTO	#8/2-0	#8/2-0	#6/2-0	#6/1-0
16KW	480Δ	ISOLATION	#8/2-0	(NONE)	(NONE)	#6/1-0

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
8KW	208Y/127	NA	#10	#10	#8	#8
8KW	480Y/277	AUTO	#12	#12	#10	#8
12KW	208Y/127	NA	#8	#8	#6	#8
12KW	480Y/277	AUTO	#10	#10	#8	#8
16KW	208Y/127	NA	#6	#6	#4	#6
16KW	480Y/277	AUTO	#10	#10	#8	#6

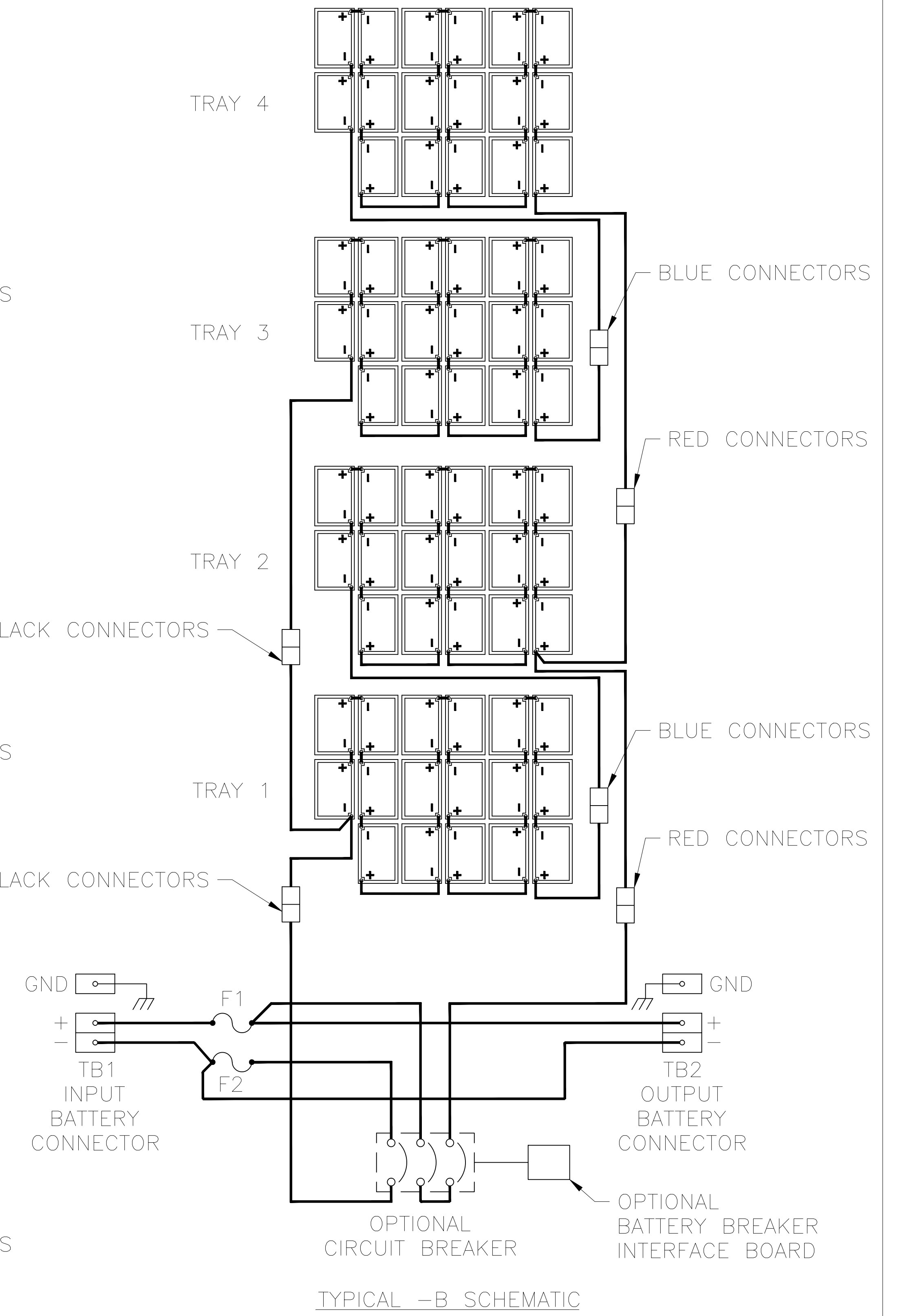
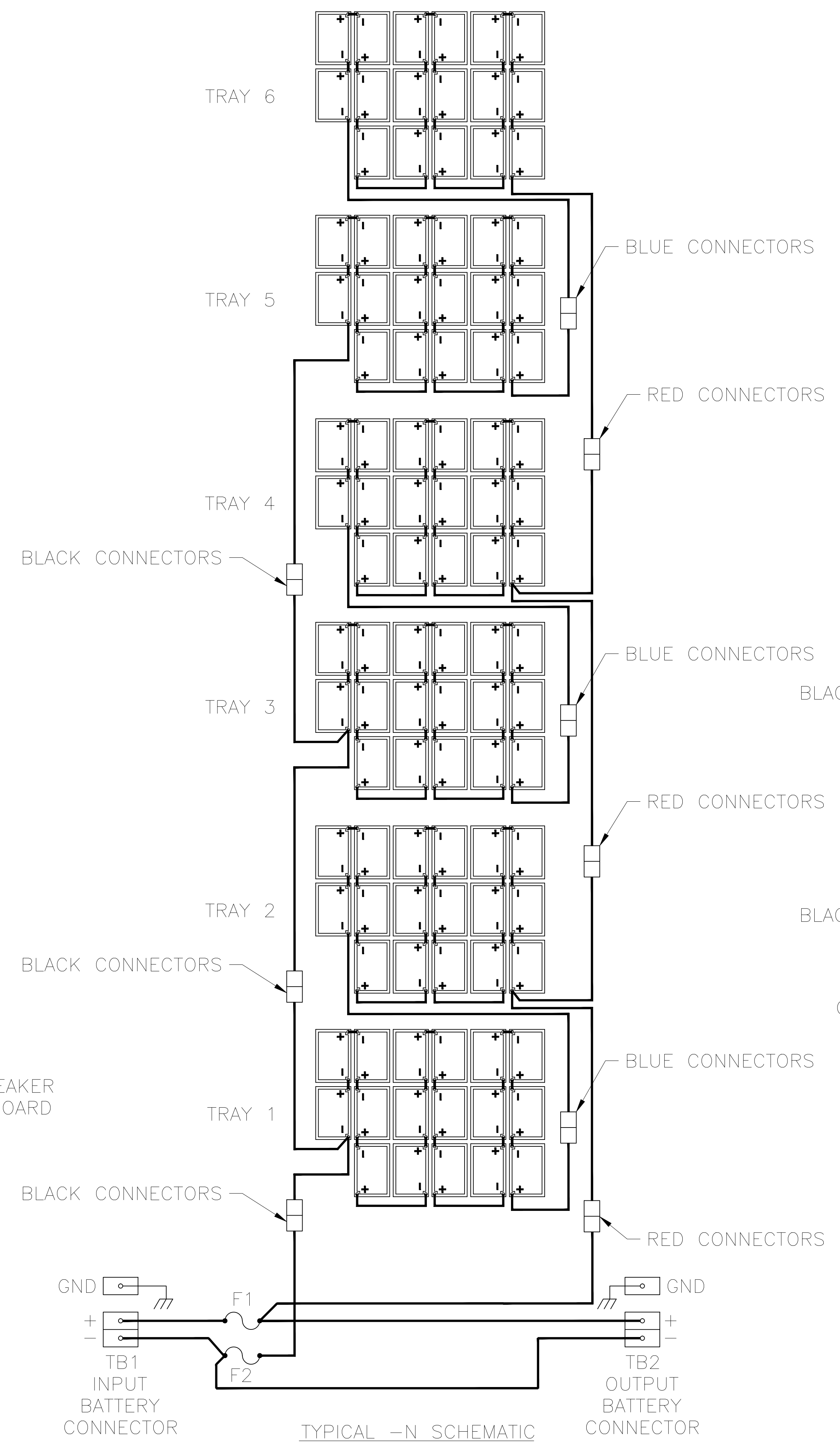
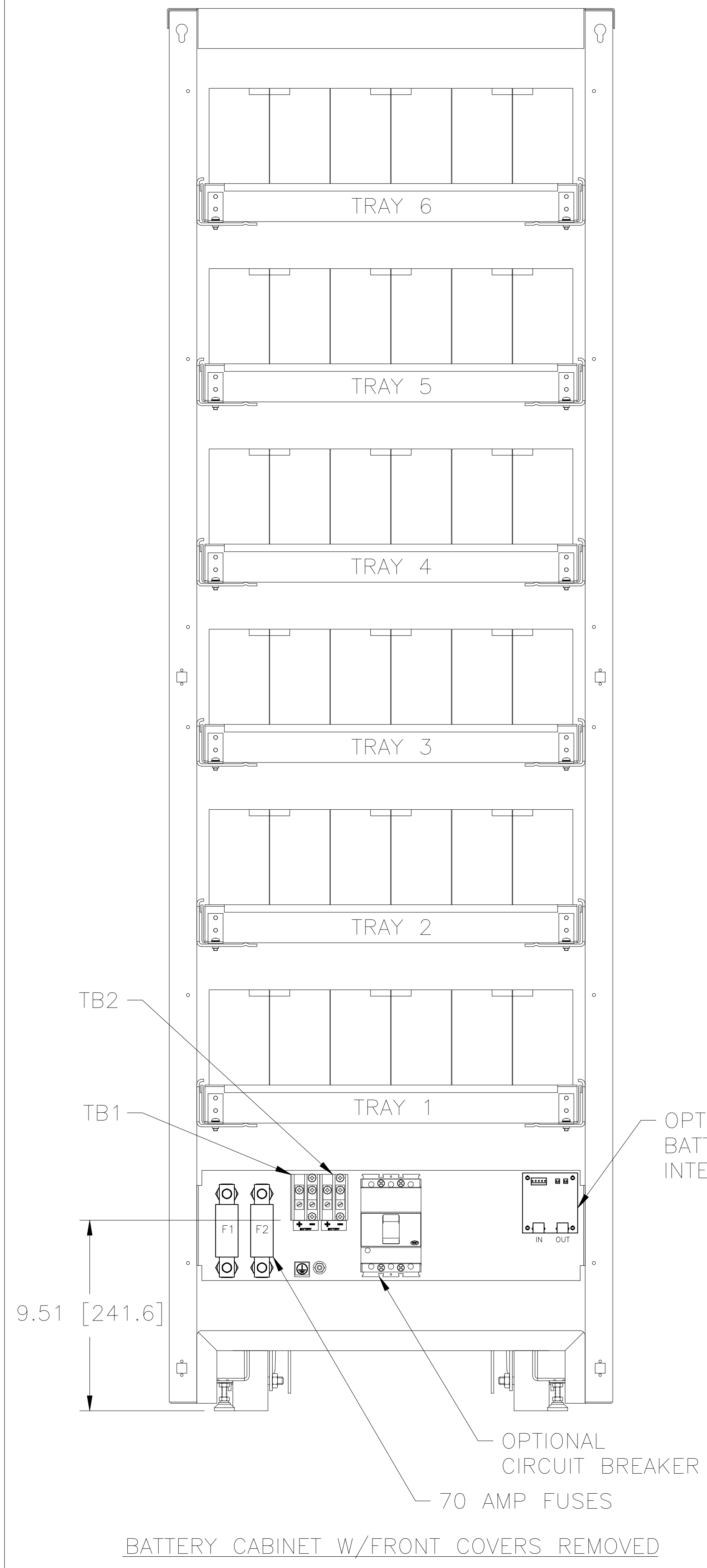
NOTE: NO OUTPUT CIRCUIT PROTECTION IS REQUIRED IF THE OUTPUT CONDUCTOR SIZES ARE AT LEAST AS LARGE AS THE INPUT CONDUCTORS, UNLESS THE UPS IS EQUIPPED WITH AN INPUT ISOLATION TRANSFORMER. IF THE UPS IS EQUIPPED WITH AN INPUT ISOLATION TRANSFORMER, THE UPS IS CONSIDERED A SEPARATELY DERIVED SOURCE AND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

BATTERY CABINET POWER CONNECTIONS:

#6 - #2 MIN/MAX. AWG

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.

UNLESS OTHERWISE SPECIFIED, TOLERANCE IS #	UNITS	TITLE:	
DECIMALS .06 .005	IN [mm]	SPECIFICATION CONTROL DRAWING	
ANGLES 15°	DRAFT	FIRSTLINE UL924 8KW-16KW	
XXX .005	PLATING	EMERGENCY LIGHTING SYSTEM	
MATERIAL:	ALL DIMENSIONS APPLY AFTER PLATING	DRAWN BY: S.A. SMITH	DATE: 7/3/08
<small>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 therein, 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.</small>		CHECKER: SAS	DATE: 7/7/08
		ENGINEER: SAS	DATE: 7/7/08
		SCALE: 1/2	FIRST USED ON: SHEET 2 OF 3
		DWG. NO. 096-6004	DWG. SIZE D



UNLESS OTHERWISE SPECIFIED, TOLERANCE IS #		UNITS		TITLE: SPECIFICATION CONTROL DRAWING	
DECIMALS	HOLES	ANGLES	DRAFT	FIRSTLINE UL924 8KW-16KW	
.XX .010 .005	.005	15°	1-1/2°	EMERGENCY LIGHTING SYSTEM	
MATERIAL:		ALL DIMENSIONS APPLY AFTER PLATING		DRAWN BY: S.A. SMITH	
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 therein, 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: 7/3/08	
		ENGINEER: SAS		DATE: 7/7/08	
				FIRST USED ON: [blank]	
				WEIGHT APPROX.:	
				SCALE: 1/4	
				CAGE CODE: 83008	
				DWG. NO. 096-6004	
				SHEET 3 OF 3	

