

PHYSICAL INSTALLATION

- 1 POSITION SYSTEM IN FINAL LOCATION AND LOWER ALL LOAD LEVELERS UNTIL BALL TRANSFERS ARE NOT SUPPORTING SYSTEM. IF SYSTEM IS TO BE MOUNTED ON TOP OF BATTERY CABINET, REMOVE LOAD LEVELERS BEFORE MOUNTING SYSTEM ON TOP OF BATTERY CABINET. SECURE BATTERY CABINET TO SYSTEM WITH PROPER HARDWARE. THEN TURN DOWN BOLTS UNDER BATTERY CABINET TO STABILIZE.

- 2 PROVIDE 36 INCHES OF SERVICE CLEARANCE ON EACH SIDE AND 12 INCHES AT THE REAR OF THE UPS. LOCATIONS NOT PERMITTING THE REQUIRED CLEARANCE SHOULD BE INSTALLED USING LIQUID-TIGHT FLEXIBLE METAL CONDUIT.

GENERAL NOTES:

- 1 ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED. DIMENSIONS WITHIN BRACKETS [] ARE IN CENTIMETERS.
- 2 WIRE SYSTEM AS INDICATED IN THE FOLLOWING PAGES.

MECHANICAL DATA

WEIGHT: 10KVA = 650 Lbs [292.5 kg]

SIZE: SEE DRAWING AT LEFT
 PAINT: SHERWIN WILLIAMS PT. No. F63A10317
 COLOR: LIGHT GRAY

THERMAL DATA

HEAT DISSIPATION @ 100% LOAD
 10KVA (0.8pf) = 8.2K BTU/HR MAX.

COOLING: FAN ASSISTED
 OPERATING AMBIENT = 32°F TO +104°F (0°C TO +40°C)

FOR MAXIMUM BATTERY LIFE, BATTERY MANUFACTURERS RECOMMEND AN OPERATING TEMPERATURE OF 77°F (25°C).

ENVIRONMENTAL DATA

NEMA 1= INDOOR DUTY, OPEN VENTILATED, NONCORROSIVE, CONTROLLED ENVIRONMENT PER UL1778, DOES NOT PREVENT ENTRY OF DUST.
 HUMIDITY RANGE: 0 TO 95% NON-CONDENSING ALTITUDE DERATING: NONE BELOW 7000 FT. 10%/1000 FT. ABOVE
 AUDIBLE NOISE: 50dB(A), 5 FT. IN FRONT OF UNIT, 4 FT. FROM FLOOR.

INSTALLER CONNECTIONS

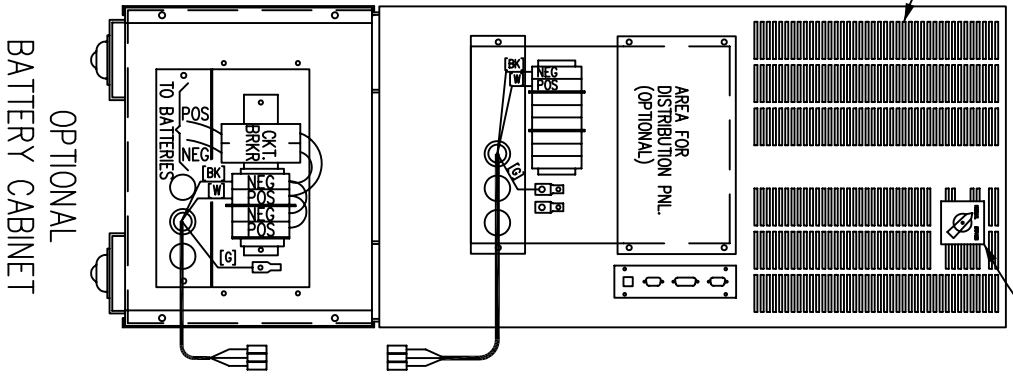
10KVA SYSTEMS

DESIGN	DATE	IC5196-709A
DRAWN	DATE	
WALLACE	5-21-97	
CHKD	DATE	
APPD	DATE	
K. AMOROG	5-21-97	
SHEET 1 OF 6		ISSUE

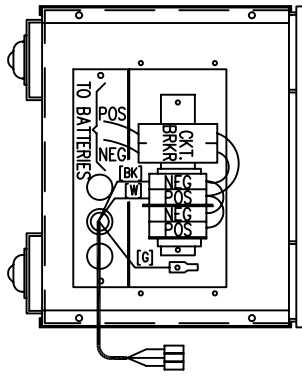
AIR EXHAUST VENTS
PROVIDE MINIMUM 12"
SPACE AT REAR OF UPS

BACK OF SYSTEM

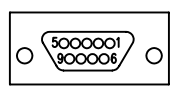
INTERNAL BYPASS SWITCH
(OPTIONAL)



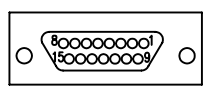
OPTIONAL
BATTERY CABINET



(J2) PIN No.	ALARM
5	COMMON
6	ON BYPASS (N.O.)
7	LOW BATTERY (N.O.)
8	GEN. ALARM (N.O.)
9	UTILITY FAIL (N.O.)

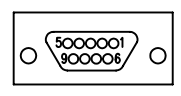


J2
ALARM CONTACT
PORT



J3
REMOTE ALARM
PORT
(OPTIONAL)

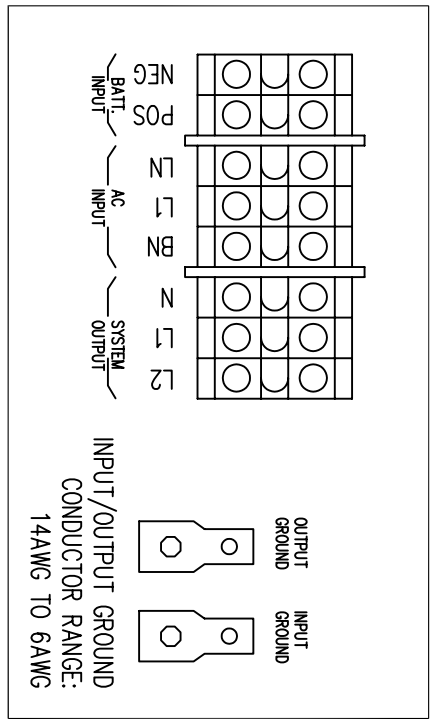
NOTE 1



J1
RS-232 PORT
DB9S (FEMALE)
DCE CONNECTION
(OPTIONAL)

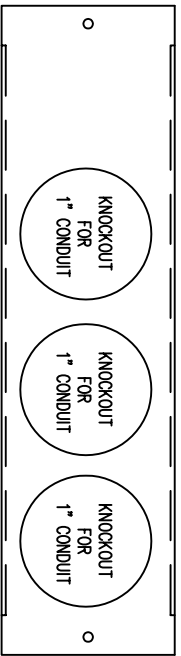


MODEM PORT
STD. RJ-11 JACK
(PART OF RS-232
OPTION)



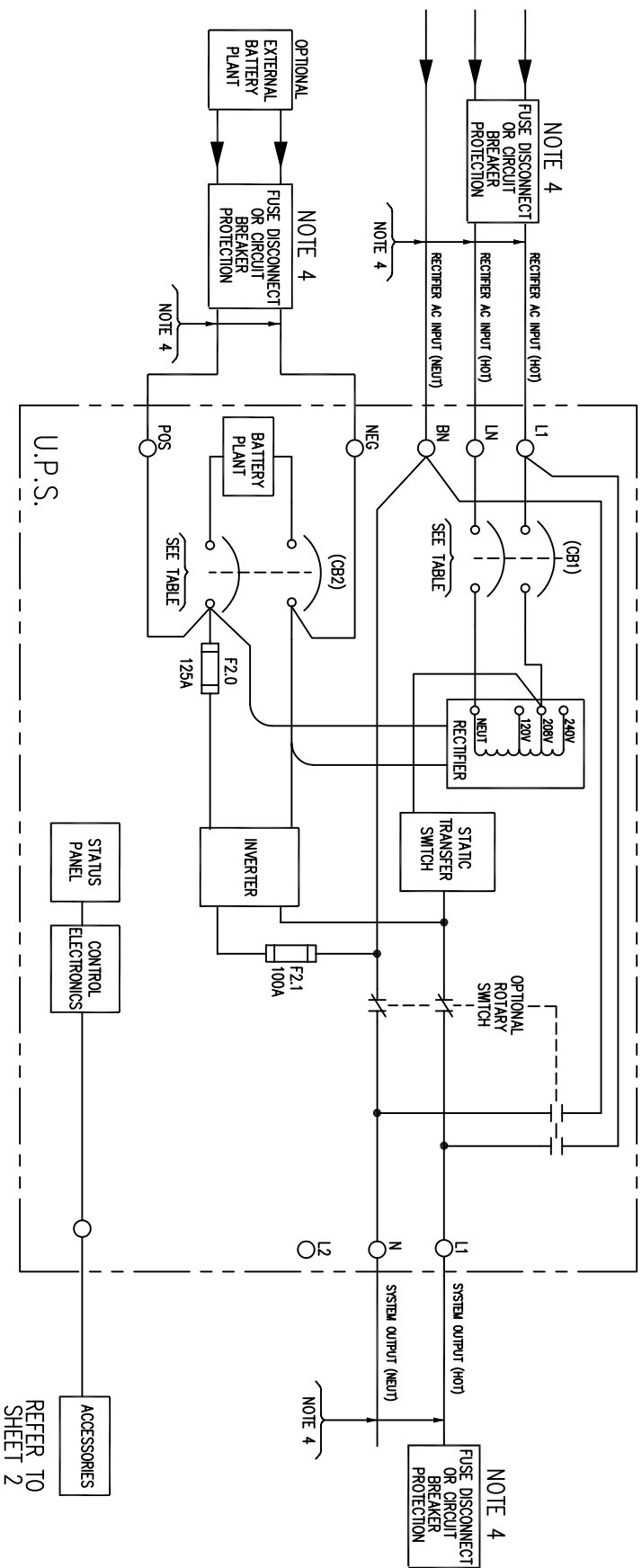
AC INPUT VOLTAGE	CONNECT TO	SYSTEM OUTPUT	CONNECT TO
208V	L1 & LN & (BN NEUTRAL)	120V	L1 & N
240V	L1 & LN & (BN NEUTRAL)	120/208V	L1 & N/L1 & L2
		120/240V	L1 & N/L1 & L2

COVER PLATE



NOTES:
1 NOT TO EXCEED CLASS 2 LIMITATIONS.
REFER TO N.E.C. ARTICLE 725-31,
TABLES (a) & (b).

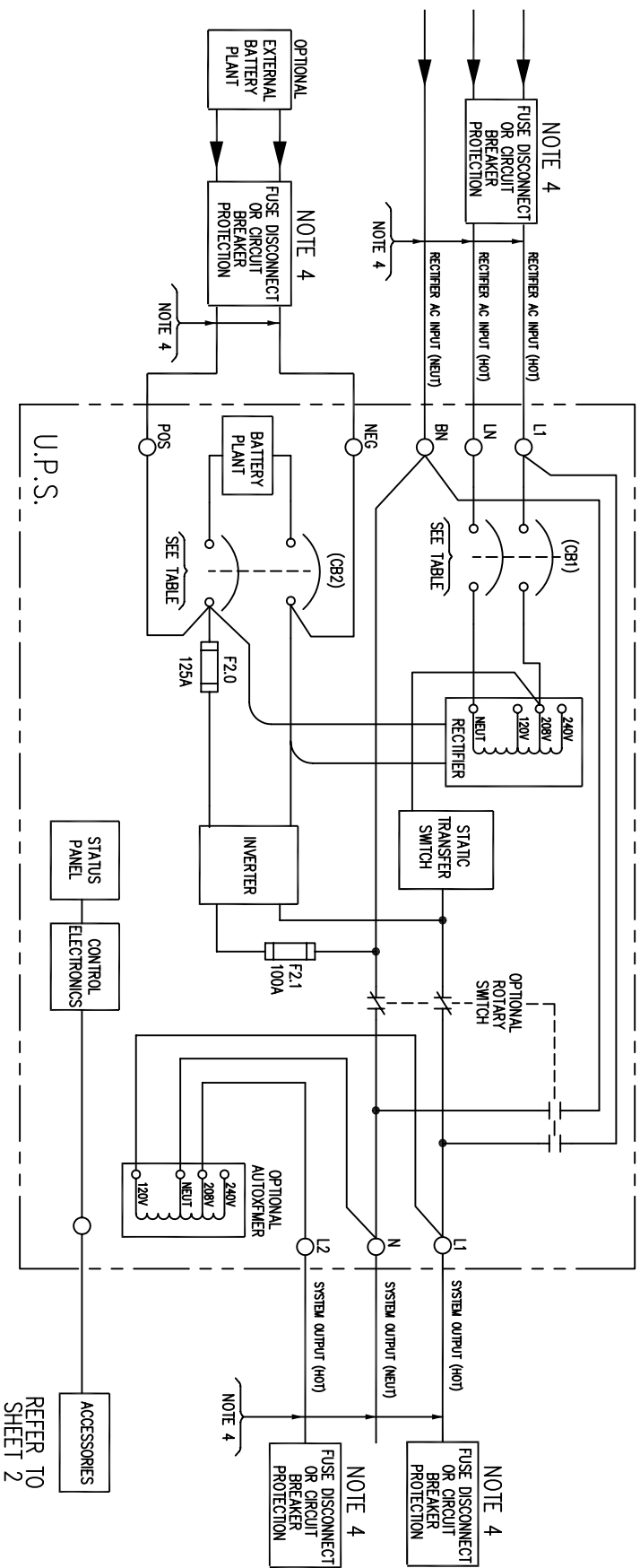
10KVA (208V INPUT, 120V OUTPUT)



- NOTES:
- 1 WIRE SIZE RECOMMENDATIONS BASED ON 90°C COPPER CONDUCTORS OPERATING IN 30°C AMBIENT AND NEC TABLES 290-95 & 310-16, INCREASE CONDUCTOR SIZE FOR LONG RUNS.
 - 2 ALL FIELD WIRING TO BE COPPER CONDUCTOR ONLY.
 - 3 ALL GROUNDS SHOWN SHALL BE CONNECTED SEPARATELY TO A SINGLE GROUNDING POINT AT THE SOURCE SERVICE EQUIPMENT, PER IEEE STD. 446-1980 FIG. 72.
 - 4 FUSE OR CIRCUIT BREAKER PROTECTION EXTERNAL TO UPS TO BE PROVIDED BY CUSTOMER. SEE TABLE BELOW FOR RECOMMENDED PROTECTION SIZING AND WIRE SIZING.
 - 5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

SIZE	SPEC. No.	AC INPUT				BATTERY LEAD				SYSTEM OUTPUT															
		TERM. No. (L1,L,N,BN)	TERM. TORQUE	RECM. SIZE	RECM. FUSING	TERM. No. (POS,NEG.)	TERM. TORQUE	RECM. SIZE	RECM. FUSING	TERM. No. (L1,N,L2)	TERM. TORQUE	RECM. SIZE	RECM. FUSING												
10KVA	5196-709A	AC INPUT	MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	25,000	12-2 AWG	35 IN/LB	2 GA	125A	8 GA	100A	120VDC	10,000	12-2 AWG	35 IN/LB	2 GA	125A	120V	83.3A	12-2 AWG	35 IN/LB	3 GA	8 GA	100 AMPS

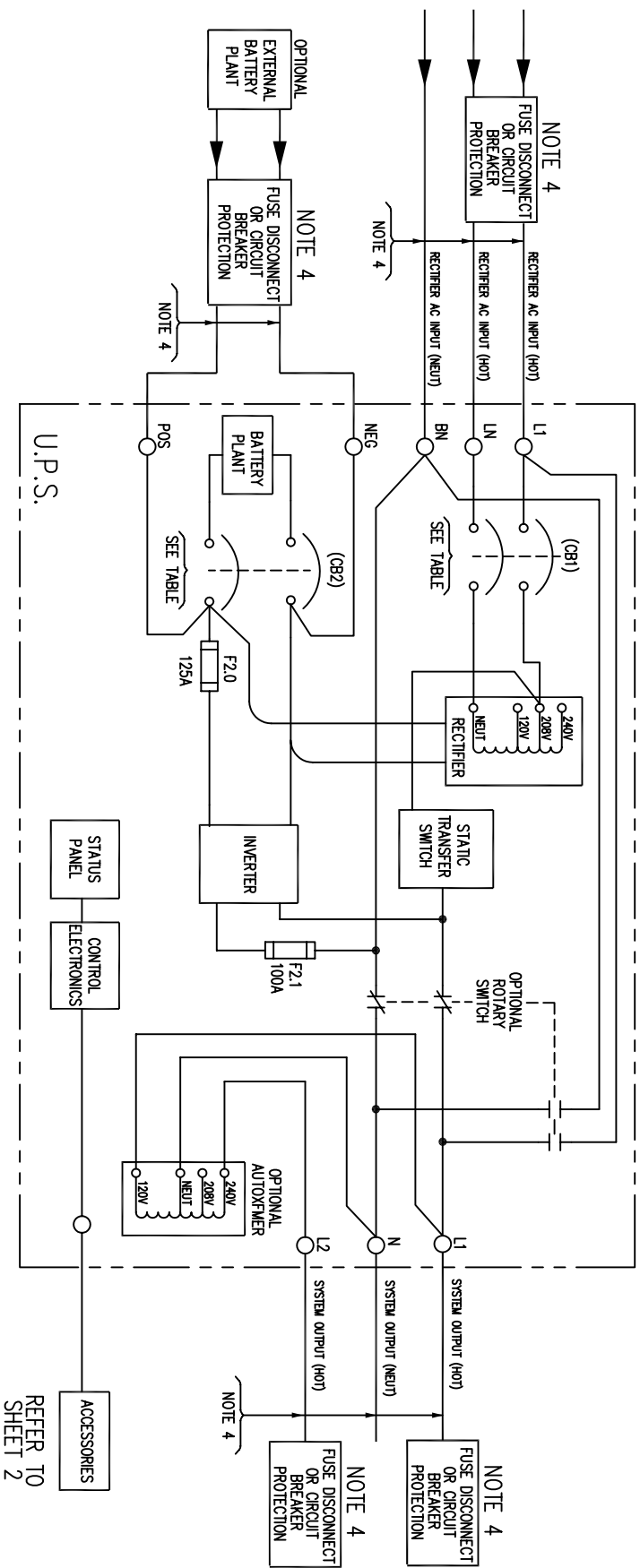
10KVA (208V INPUT, 120/208V OUTPUT)



- NOTES:
- 1 WIRE SIZE RECOMMENDATIONS BASED ON 90°C COPPER CONDUCTORS OPERATING IN 30°C AMBIENT AND NEC TABLES 250-95 & 310-16, INCREASE CONDUCTOR SIZE FOR LONG RUNS.
 - 2 ALL FIELD WIRING TO BE COPPER CONDUCTOR ONLY.
 - 3 ALL GROUNDS SHOWN SHALL BE CONNECTED SEPARATELY TO A SINGLE GROUNDING POINT AT THE SOURCE SERVICE EQUIPMENT, PER IEEE STD. 446-1980 FIG. 72.
 - 4 FUSE OR CIRCUIT BREAKER PROTECTION EXTERNAL TO UPS TO BE PROVIDED BY CUSTOMER. SEE TABLE BELOW FOR RECOMMENDED PROTECTION SIZING AND WIRE SIZING.
 - 5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

SIZE SPEC. No.	AC INPUT					BATTERY LEAD					SYSTEM OUTPUT											
	TERM. No. (L1, LN, BN)	TERM. No. (POS, NEG.)	TERM. No. (L1, N, L2)																			
10KVA	208	100A	25,000	12-2 AWG	35 IN/LB	2 GA	125A	8 GA	100A	120VDC	10,000	12-2 AWG	35 IN/LB	2 GA	125A	120/208V	83.3/48A	12-2 AWG	35 IN/LB	3 GA	8 GA	100/60A
	AC INPUT	MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	(CB2) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING

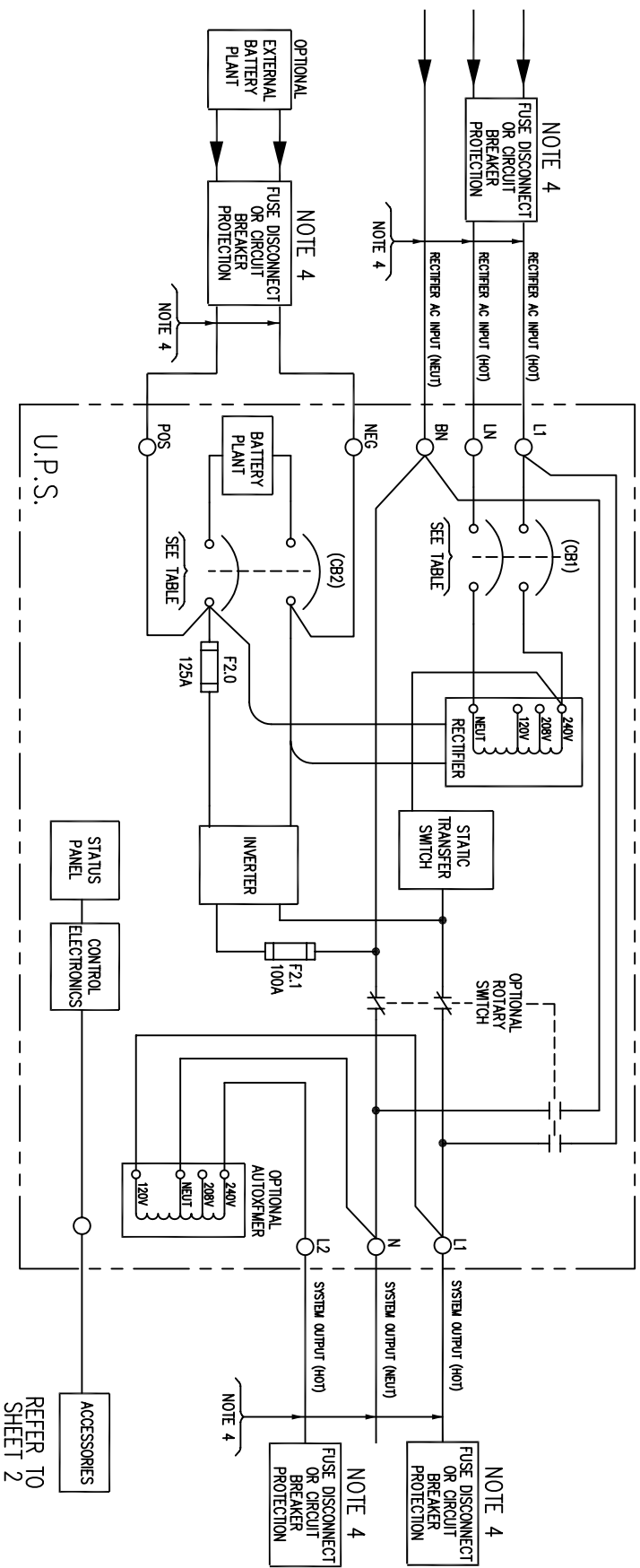
10KVA (208V INPUT, 120/240V OUTPUT)



- NOTES:**
- 1 WIRE SIZE RECOMMENDATIONS BASED ON 90°C COPPER CONDUCTORS OPERATING IN 30°C AMBIENT AND NEC TABLES 250-95 & 310-16, INCREASE CONDUCTOR SIZE FOR LONG RUNS.
 - 2 ALL FIELD WIRING TO BE COPPER CONDUCTOR ONLY.
 - 3 ALL GROUNDS SHOWN SHALL BE CONNECTED SEPARATELY TO A SINGLE GROUNDING POINT AT THE SOURCE SERVICE EQUIPMENT, PER IEEE STD. 446-1980 FIG. 72.
 - 4 FUSE OR CIRCUIT BREAKER PROTECTION EXTERNAL TO UPS TO BE PROVIDED BY CUSTOMER. SEE TABLE BELOW FOR RECOMMENDED PROTECTION SIZING AND WIRE SIZING.
 - 5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

SIZE	AC INPUT					BATTERY LEAD					SYSTEM OUTPUT												
	TERM. No. (L1,L,N,BN)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	TERM. No. (POS,NEG,)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	TERM. No. (L1,N,L2)	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING								
10KVA	AC INPUT	MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	12-2 AWG 35 N/LB 2 GA	208	83.5A 0.9pf	100A	25,000	12-2 AWG 35 N/LB 2 GA	125A	8 GA	100A	120VDC	10,000	12-2 AWG 35 N/LB 2 GA	125A	120/240V	FULL LOAD CURRENT (AMPS)	83.3/42A	12-2 AWG 35 N/LB 3 GA	8 GA.	100/60A

10KVA (240V INPUT, 120/240V OUTPUT)



- NOTES:
- 1 WIRE SIZE RECOMMENDATIONS BASED ON 90°C COPPER CONDUCTORS OPERATING IN 30°C AMBIENT AND NEC TABLES 250-95 & 310-16, INCREASE CONDUCTOR SIZE FOR LONG RUNS.
 - 2 ALL FIELD WIRING TO BE COPPER CONDUCTOR ONLY.
 - 3 ALL GROUNDS SHOWN SHALL BE CONNECTED SEPARATELY TO A SINGLE GROUNDING POINT AT THE SOURCE SERVICE EQUIPMENT, PER IEEE STD. 446-1980 FIG. 72.
 - 4 FUSE OR CIRCUIT BREAKER PROTECTION EXTERNAL TO UPS TO BE PROVIDED BY CUSTOMER. SEE TABLE BELOW FOR RECOMMENDED PROTECTION SIZING AND WIRE SIZING.
 - 5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

SIZE	AC INPUT					BATTERY LEAD					SYSTEM OUTPUT												
	TERM. No. (L1, LN, BN)	TERM. No. (POS, NEG.)	TERM. No. (L1, N, L2)																				
10KVA	AC INPUT	MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECOM. SIZE	RECOM. FUSING	RECOM. GRD. SIZE	(CB2) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECOM. SIZE	RECOM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECOM. SIZE	RECOM. GRD. SIZE	RECOM. FUSING
	240	72A 0.9pf	100A	25,000	12-2 AWG	35 IN/LB	2 GA	125A	8 GA	100A	120VDC	10,000	12-2 AWG	35 IN/LB	2 GA	125A	120/240V	83.3/42A	12-2 AWG	35 IN/LB	3 GA	8 GA.	100/60A