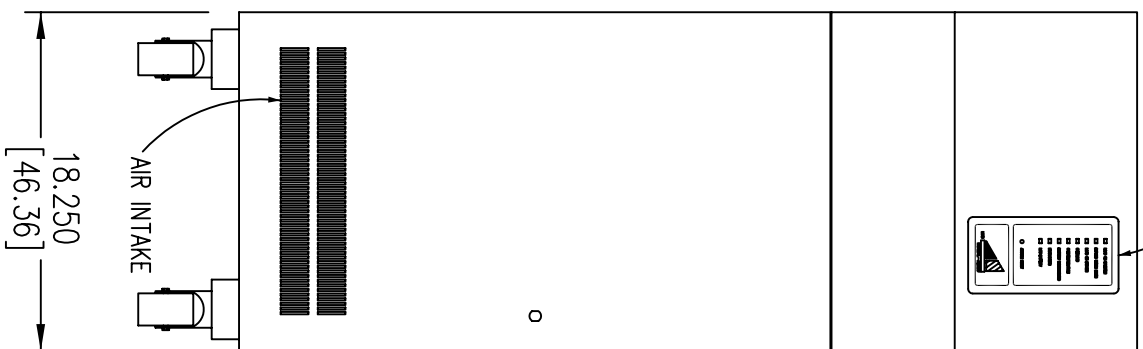


NOTE 3



NOTE 3

DISPLAY PANEL

PHYSICAL INSTALLATION

- 1 POSITION SYSTEM IN FINAL LOCATION AND INSTALL LOAD LEVELERS BY SCREWING INTO THREADED INSERTS LOCATED ON BOTTOM NEAR EACH CASTER. THEN TURN DOWN BOLTS TO STABILIZE.
- 2 CONNECT CONDUITS TO GLAND PLATE AND WIRE SYSTEM AS INDICATED IN THE FOLLOWING PAGES.
- 3 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.

MECHANICAL DATA

WEIGHT: 10KW = 1200 LBS [540 kg]
15KW = 1200 LBS [540 kg]

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

THERMAL DATA

HEAT DISSIPATION @ 100% LOAD
10KW = 5,25K BTU/HR MAX.
15KW = 7,7K BTU/HR MAX.

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

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

ENVIRONMENTAL DATA

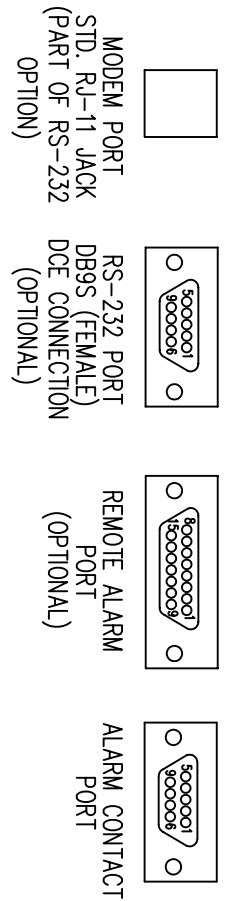
NEMA 1= INDOOR DUTY, OPEN VENTILATED, NONCORROSIVE, CONTROLLED ENVIRONMENT PER UL1778, DOES NOT PREVENT ENTRY OF DUST.
HUMIDITY RANGE: 0 TO 95% NON-CONDENSING ALTITUDE DERATING: NONE BELOW 7000 FT. 10%/1000 FT. ABOVE
AUDIBLE NOISE: 50DB(A), 5 FT. IN FRONT OF UNIT, 4 FT. FROM FLOOR.

7	7-94	ZONE 4 APPROVAL ADD 1" TO HEIGHT
6	7-93	ADD METRIC INFO
5	12-92	REVISE AND ADDED SH. 5 THRU 8
4	11-92	ADDED 208V BYPASS INPUT
3	8-92	NOTE 5, SH.3 NOM. VOLT.(CB2)
2	4-92	MISC CHG'S SH. 1, 2 & 3

ISS	DATE	CHG. SLIP No.
DESIGN	DATE	
DRAWN	DATE	
CHKD	DATE	
APPD	DATE	
<p>INSTALLER CONNECTIONS (12.5KVA, 10KW & 18.75KVA, 15KW, IPH INPUT SYSTEM)</p> <p>IC5196-714 IC5196-709</p>		
SHEET 1 OF 8		ISSUE

BACK OF SYSTEM

INTERNAL BYPASS SWITCH (OPTIONAL)



NOTE 1

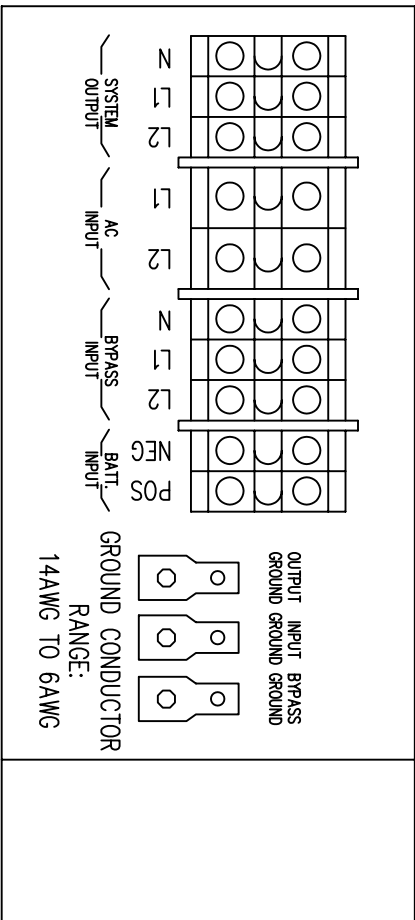
(J2) PIN No.	ALARM
5	COMMON
6	ON BYPASS (N.O.)
7	LOW BATTERY (N.O.)
8	GEN. ALARM (N.O.)
9	UTILITY FAIL (N.O.)

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

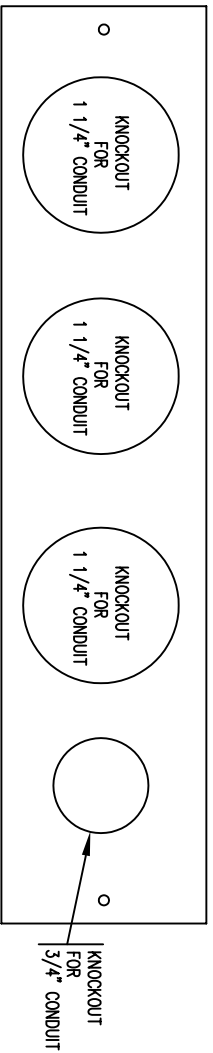
COVER PLATE DESIGNED FOR 1) 3/4" CONDUIT 3) 1-1/4" CONDUIT

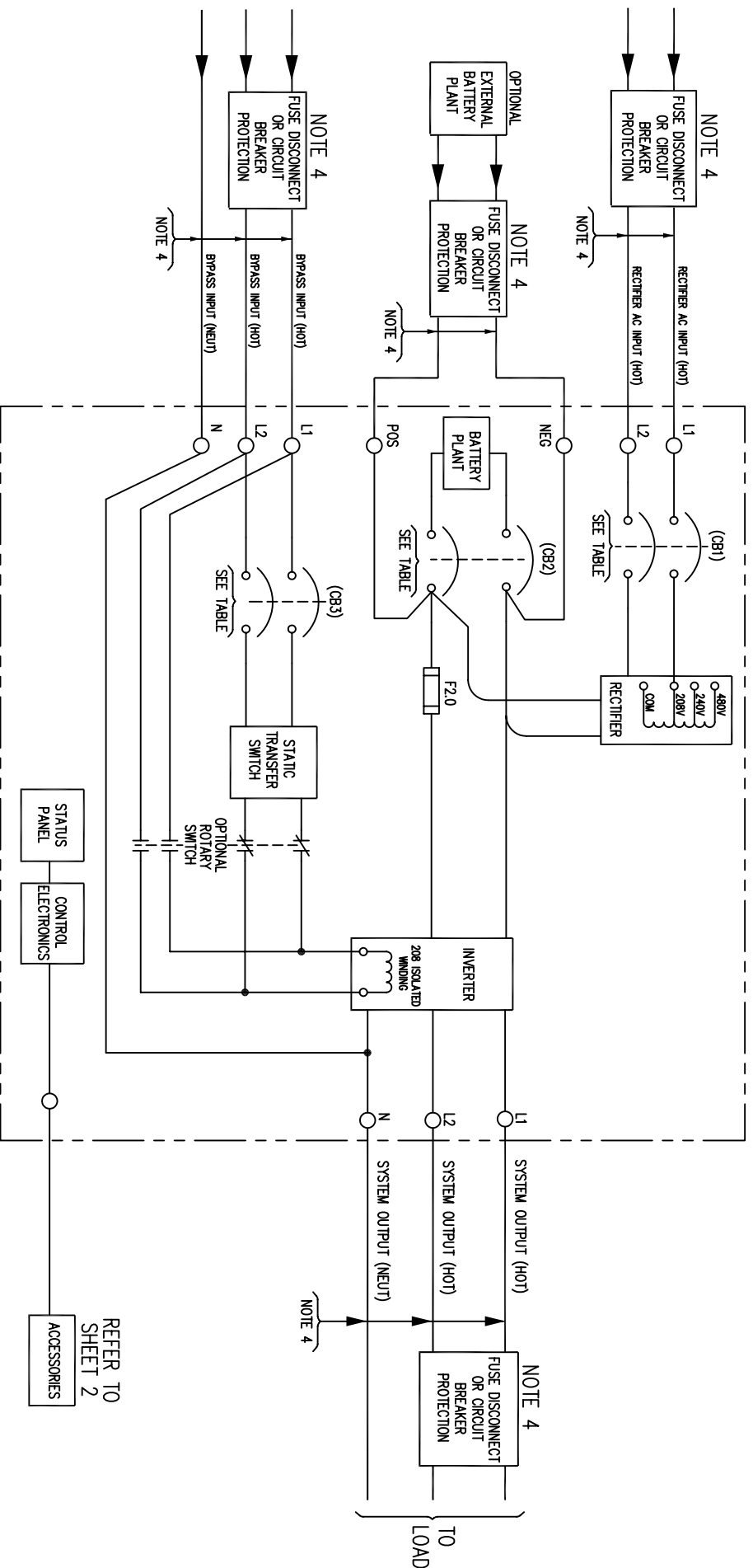
GLAND PLATE BOTTOM ENTRY DESIGNED FOR 1) 3/4" CONDUIT 3) 1-1/4" CONDUIT

AC INPUT VOLTAGE	CONNECT TO	BYPASS INPUT VOLTAGE	CONNECT TO	SYSTEM OUTPUT	CONNECT TO
208V	L1, L2	208V/W NEUT	L1 & L2 (N NEUT.)	120/208V	L1 & L2 (N NEUT.)
240V	L1, L2	120/240V	L1 & L2 (N NEUT.)	120/240V	L1 & L2 (N NEUT.)
480V	L1, L2				



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





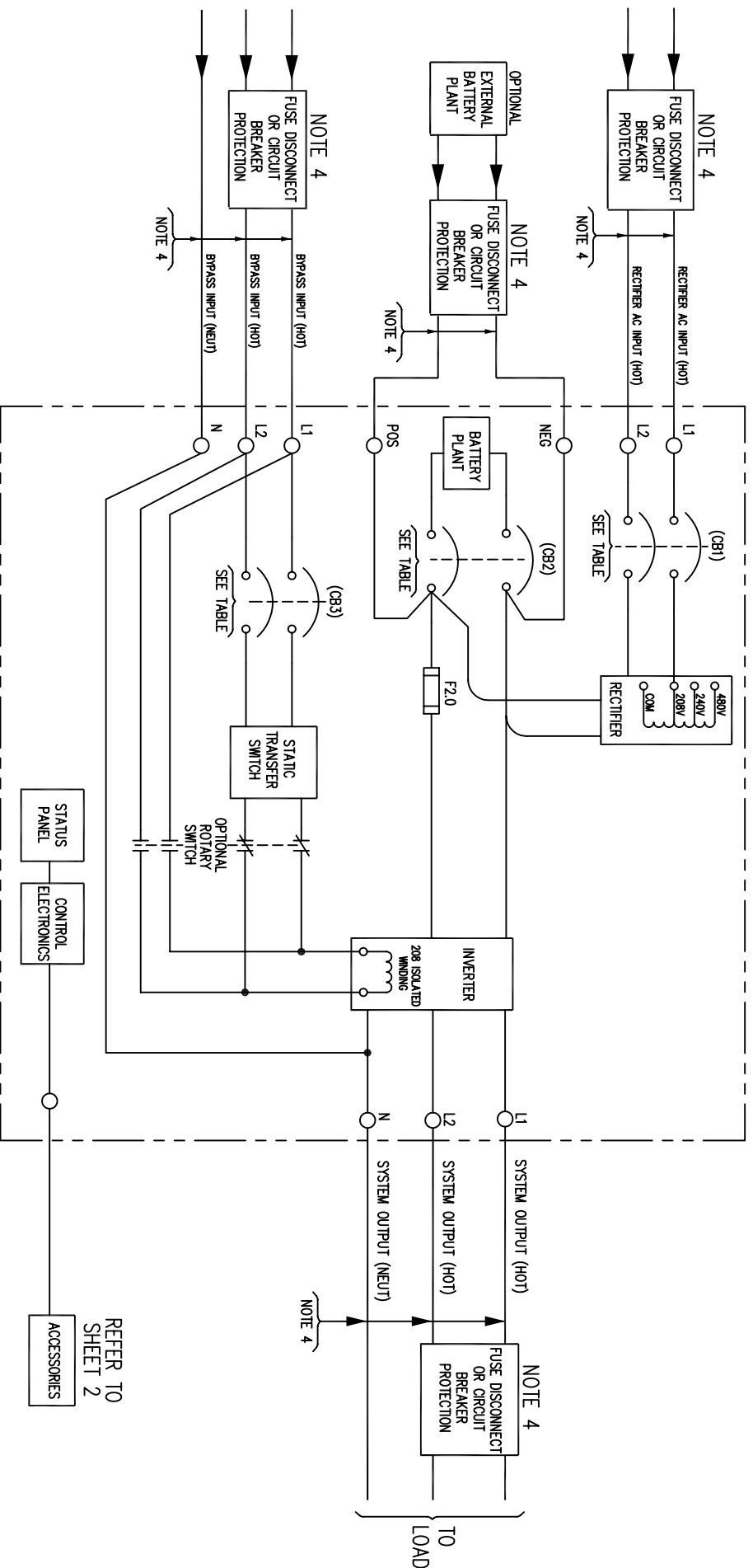
SIZE	SPEC. No.	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT										
		TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (POS,NEG)	TERM. No. (L1,N,L2)																						
		MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	(CB3) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	(CB2) 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. FUSING	RECM. GND. SIZE
12.5KVA	5196-709	208	130AMPS	150A	30,000 4-2/0 AWG 50 IN/LB	1GA	175A	6GA	60A	10,000 8-1/0 AWG 35 IN/LB	6GA	80A	50A	360VDC	10,000 8-1/0 AWG 25 IN/LB	8GA	50A	120/208V	83.3/48	8-1/0 AWG 35 IN/LB	2 GA	125A/60A	8 GA	125A/60A	8 GA	8 GA	
18.75KVA	5196-714	208	180AMPS	200A	50,000 4-2/0 AWG 50 IN/LB	2/0	200A	6GA	100A	10,000 8-1/0 AWG 40 IN/LB	2GA	125A	100A	360VDC	20,000 8-1/0 AWG 35 IN/LB	3GA	100A	120/208V	125/72	8-1/0 AWG 40 IN/LB	1/0	160A/90A	8 GA	160A/90A	8 GA	8 GA	

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.

REFER TO SHEET 2 ACCESSORIES

INSTALLER CONNECTIONS	
120/208V INPUT	12.5KVA, 10KW, 1Ø INPUT
208V INPUT	18.75KVA, 15KW 1Ø INPUT
IC5196-714	
IC5196-709	
SHEET 3 OF 8	ISSUE



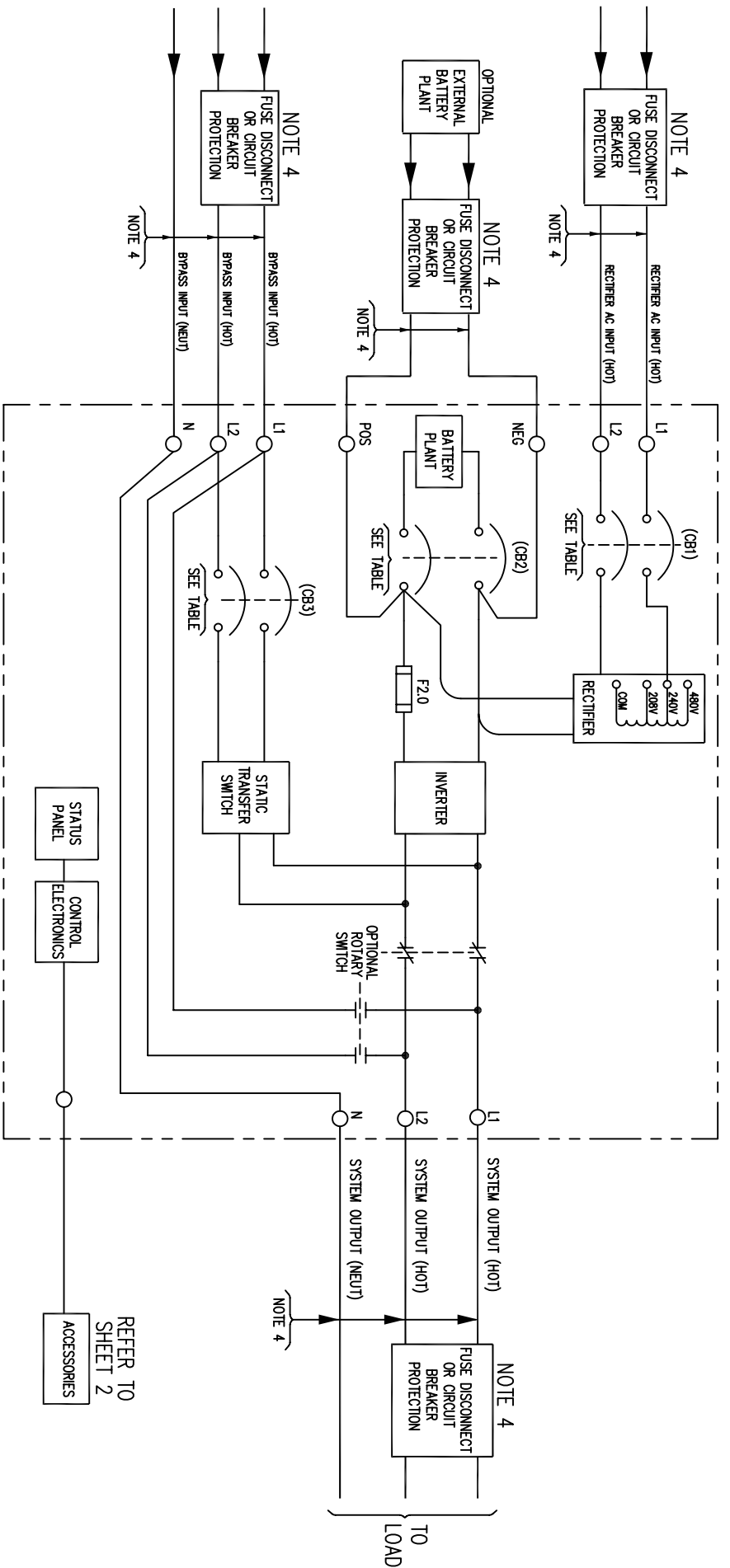
SIZE	SPEC. No.	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT									
		TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)									
12.5KVA	5196-709	208	150A	30,000	4-2/0 AWG 50 IN/LB	1GA	175A	6GA	60A	10,000	8-1/0 AWG 35 IN/LB	6GA	80A	50A	360VDC	10,000	8-1/0 AWG 25 IN/LB	8GA	50A	120/240V	83.3/42	8-1/0 AWG 35 IN/LB	2 GA	125A/60A	8 GA	
18.75KVA	5196-714	208	180AMPS	200A	50,000	4-2/0 AWG 50 IN/LB	2/0	200A	6GA	100A	10,000	8-1/0 AWG 40 IN/LB	2GA	125A	100A	360VDC	20,000	8-1/0 AWG 35 IN/LB	3GA	100A	120/240V	125/62.5	8-1/0 AWG 40 IN/LB	1/0	160A/80A	8 GA

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.

REFER TO SHEET 2

INSTALLER CONNECTIONS	208V INPUT	120/240V OUTPUT
IC5196-714	12.5KVA, 10KW 1φ INPUT	18.75KVA, 15KW 1φ INPUT
IC5196-709		
SHEET 4 OF 8	ISSUE	



SIZE	SPEC. No.	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT										
		MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	(CB3) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	(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. FUSING
12.5KVA	5196-709	240	113AMPS	150A	30,000 4-2/0 AWG 50 IN/LB	16A	175A	60A	10,000 8-1/0 AWG 35 IN/LB	6GA	80A	50A	360VDC	10,000 8-1/0 AWG 25 IN/LB	86A	8GA	50A	120/208V	83.3/48	8-1/0 AWG 35 IN/LB/2 GA	125A/60A	8 GA	120/208V	125/72	8-1/0 AWG 40 IN/LB/1/0	160A/90A	8 GA
18.75KVA	5196-714	240	157AMPS	200A	50,000 4-2/0 AWG 50 IN/LB	2/0	200A	60A	10,000 8-1/0 AWG 40 IN/LB	2GA	125A	100A	360VDC	20,000 8-1/0 AWG 35 IN/LB	36A	100A	120/208V	125/72	8-1/0 AWG 40 IN/LB/1/0	160A/90A	8 GA	120/208V	125/72	8-1/0 AWG 40 IN/LB/1/0	160A/90A	8 GA	

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.

INSTALLER CONNECTIONS

240V INPUT

120/208V OUTPUT

12.5KVA, 10KW 1Ø INPUT

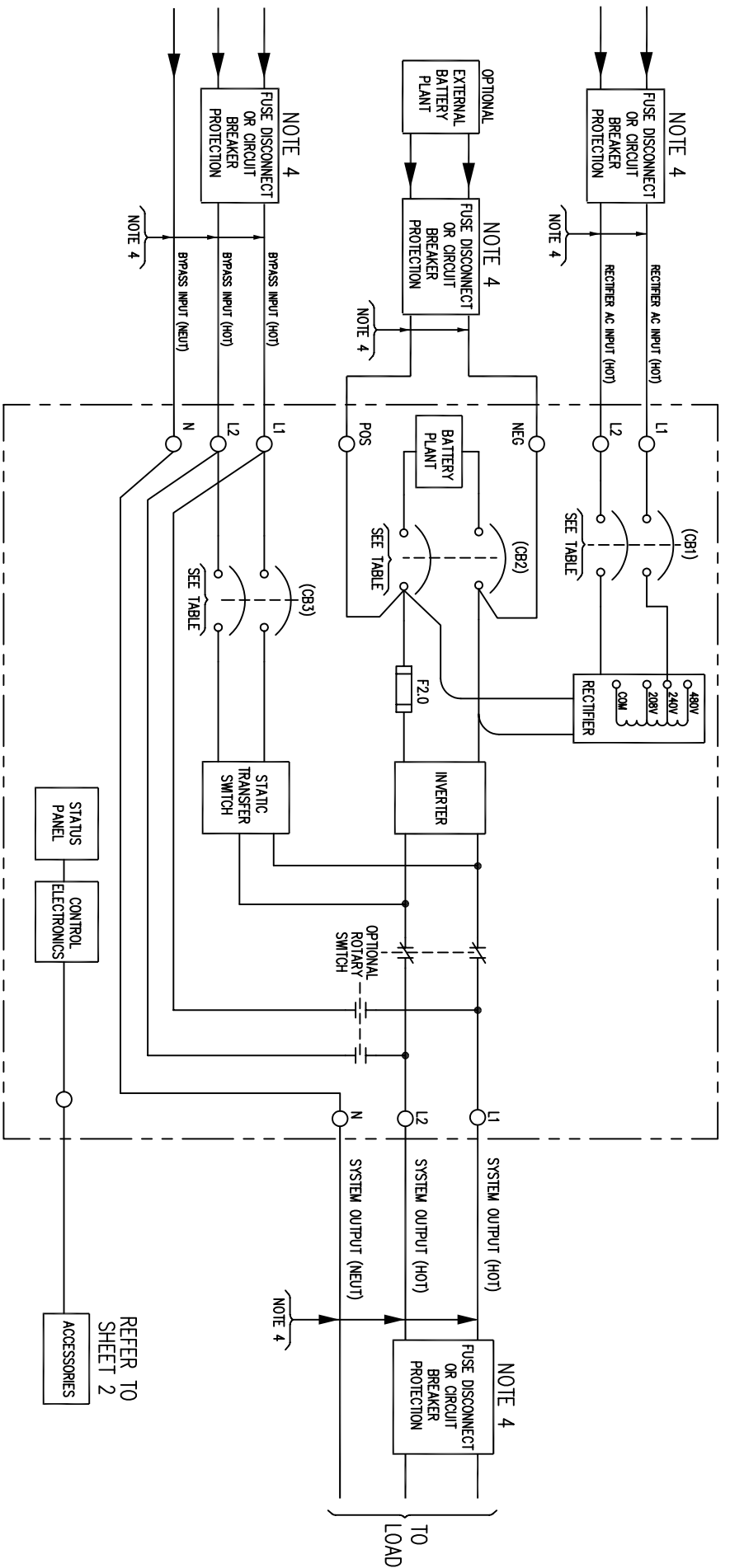
18.75KVA, 15KW 1Ø INPUT

IC5196-714

IC5196-709

SHEET 5 OF 8

ISSUE



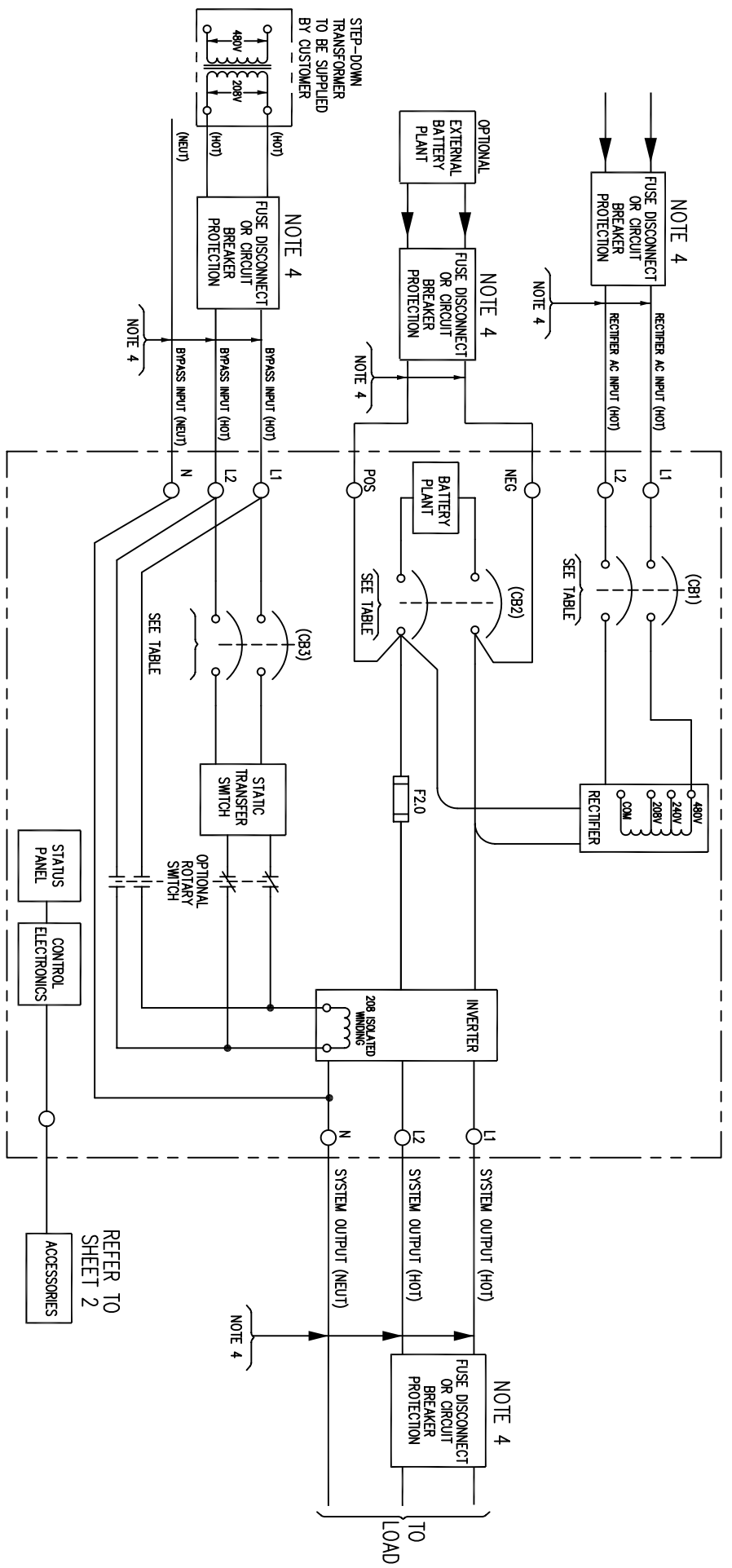
SIZE	SPEC. No.	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT													
		MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	(CB3) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	(CB2) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	TERM. CAPACITY	TORQUE	RECM. FUSING	RECM. GND. SIZE			
12.5KVA	5196-709	240	113AMPS	150A	30,000	4-2/0 AWG	50 IN/LB	16A	175A	6GA	60A	10,000	8-1/0 AWG	35 IN/LB	6GA	80A	50A	360VDC	10,000	8-1/0 AWG	25 IN/LB	8GA	50A	120/240V	83.3/42	8-1/0 AWG	35 IN/LB	2 GA	125A/60A	8 GA
18.75KVA	5196-714	240	157AMPS	200A	50,000	4-2/0 AWG	50 IN/LB	2/0	200A	6GA	100A	10,000	8-1/0 AWG	40 IN/LB	2GA	125A	100A	360VDC	20,000	8-1/0 AWG	35 IN/LB	3GA	100A	120/240V	125/62.5	8-1/0 AWG	40 IN/LB	1/0	160A/80A	8 GA

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.

REFER TO SHEET 2

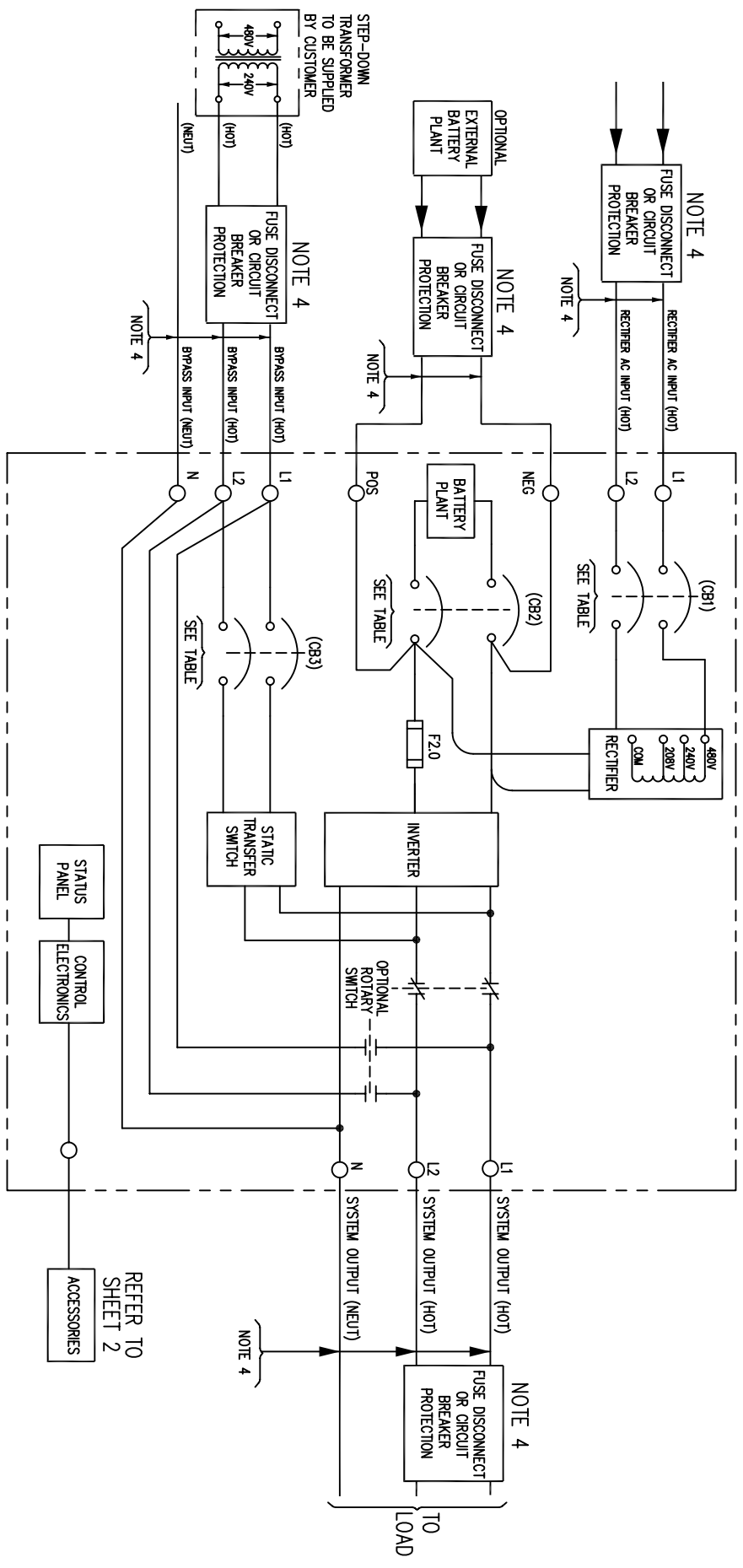
INSTALLER CONNECTIONS	240V INPUT	120/240V OUTPUT
12.5KVA, 10KW, 1Ø INPUT	18.75KVA, 15KW, 1Ø INPUT	
IC5196-714	IC5196-709	
SHEET 6 OF 8	ISSUE	



SPEC. No.	AC INPUT						BYPASS INPUT						BATTERY LEAD						SYSTEM OUTPUT							
	MAX. INPUT CURRENT	(CB1) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GND. SIZE	(CB3) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	(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
12.5KVA 5196-709	480	56 AMPS	60A	14,000	4-2/0 AWG 35 IN/LB	46A	80 A	86A	60A	10,000	8-1/0 AWG 35 IN/LB	66A	70A	50A	360VDC	10,000	8-1/0 AWG 25 IN/LB	86A	50A	120/208V	83.3/48	8-1/0 AWG 35 IN/LB	2 GA	8 GA	125A/60A	
18.75KVA 5196-714	480	78 AMPS	100A	14,000	4-2/0 AWG 35 IN/LB	56A	125 A	86A	100A	10,000	8-1/0 AWG 40 IN/LB	26A	125A	100A	360VDC	20,000	8-1/0 AWG 35 IN/LB	3 GA	100A	120/208V	125/72	8-1/0 AWG 40 IN/LB	1/0	8 GA	160A/90A	

- 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.

INSTALLER CONNECTIONS	480V INPUT/208V BYPASS	120/208V OUTPUT	12.5KVA, 10KW 1Ø INPUT	18.75KVA, 15KW 1Ø INPUT
	IC5196-714	IC5196-709		
	SHEET 7 OF 8	ISSUE		



SPEC. No.	AC INPUT					BYPASS INPUT					BATTERY LEAD					SYSTEM OUTPUT													
	TERM. No. (L1,L2)	TERM. No. (L1, L2 & N)	TERM. No. (POS,NEG.)	TERM. No. (L1,N,L2)	TERM. No. (L1,N,L2)	MAX. INPUT CURRENT	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	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. FUSING	
12.5KVA	480	56 AMPS	60A	14,000	4-2/0 AWG 35 IN/LB	4GA	80 A	86A	80A	10,000	8-1/0 AWG 35 IN/LB	66A	70A	50A	360VDC	10,000	8-1/0 AWG 25 IN/LB	86A	50A	120/240V	83.3/42	8-1/0 AWG 35 IN/LB	2 GA	8 GA	125A/60A	8 GA	160A/80A	8 GA	160A/80A
18.75KVA	5196-714	78 AMPS	100A	14,000	4-2/0 AWG 35 IN/LB	3GA	125 A	86A	100A	10,000	8-1/0 AWG 40 IN/LB	26A	125A	100A	360VDC	20,000	8-1/0 AWG 35 IN/LB	3 GA	100A	120/240V	125/62.5	8-1/0 AWG 40 IN/LB	1/0	8 GA	160A/80A	8 GA	160A/80A	8 GA	160A/80A

- 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.
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 - 5 SPECIFIED TORQUE VALUES ARE FOR INTERNAL WIRING CONNECTIONS ONLY.

INSTALLER CONNECTIONS	480V INPUT/240V BYPASS	120/240V OUTPUT	12.5KVA, 10KW 1Ø INPUT	18.75KVA, 15KW 1Ø INPUT
IC5196-714	IC5196-709			
SHEET 8 OF 8	ISSUE			