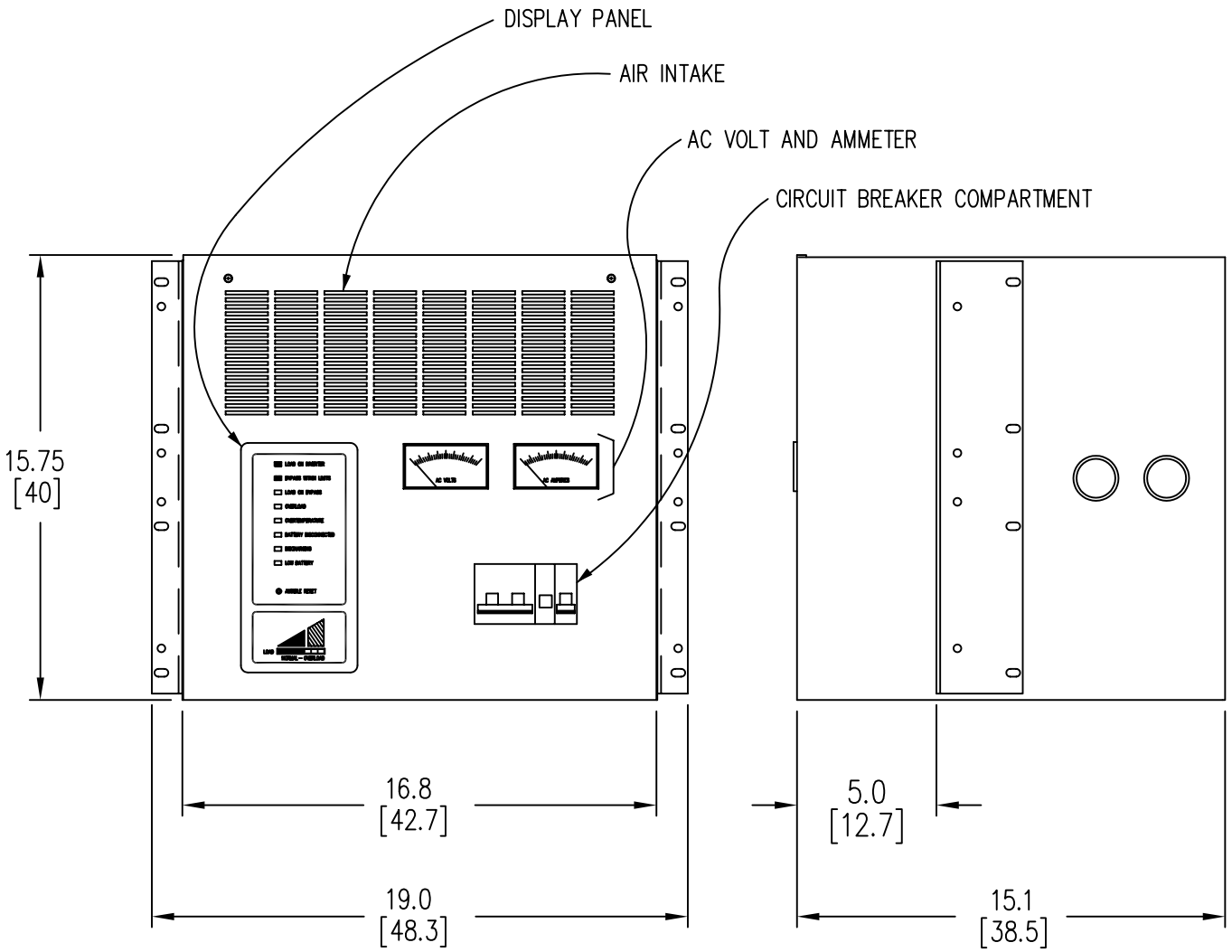


NOTE: REVERSE ANGLES FOR 23" RACK MOUNTING

PHYSICAL INSTALLATION

1 POSITION INVERTER ENCLOSURE IN 19" OR 23" RACK AND SECURE WITH 12-24 SCREWS AND HARDWARE (8 PLACES).

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: 2.5KVA = 150 Lbs [68.2 kg]

SIZE: SEE DRAWING AT LEFT
PAINT: SHERWIN WILLIAMS No. F63 A 33
COLOR: PROFILE GRAY

THERMAL DATA

HEAT DISSIPATION @ 100% LOAD
@ .8 LAGGING pf
2.5KVA = 1706 BTU/HR MAX.

COOLING: FAN ASSISTED
OPERATING AMBIENT= 32°F TO +122°F
(0°C TO +50°C)

ENVIRONMENTAL DATA

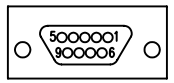
NEMA 1= INDOOR DUTY, OPEN VENTILATED, NONCORROSIVE, CONTROLLED ENVIRONMENT PER UL1778, DOES NOT PREVENT ENTRY OF DUST.
HUMIDITY RANGE: 0 TO 95%, NON-CONDENSING
ALTITUDE DERATING: NONE BELOW 7000 FT.
10%/1000 FT. ABOVE
AUDIBLE NOISE: 50dB(A), 5 FT. IN FRONT OF UNIT, 4 FT. FROM FLOOR.

INSTALLER CONNECTIONS
2.5KVA, 24VDC INVERTER SYSTEMS

DESIGN	DATE	
DRAWN WALLACE	DATE 12-17-98	IC5194-025
CHKD	DATE	
APPD R.J.MOROG	DATE 12-17-98	SHEET 1 OF 3 ISSUE

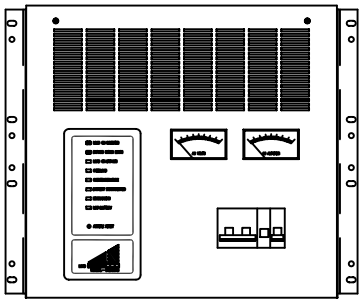
RIGHT, REAR (INVERTER)

J2

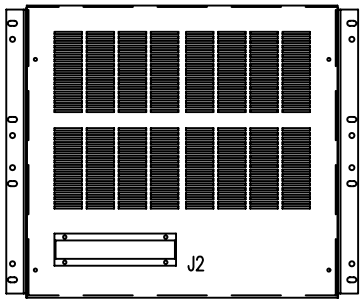


ALARM CONTACT PORT
SEE TABLE 1

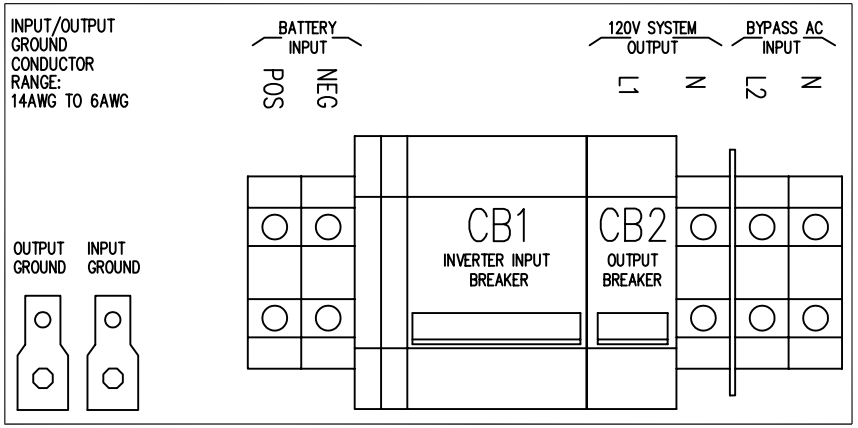
FRONT VIEW



REAR VIEW



LOWER RIGHT, FRONT (INVERTER)



NOTE 1

TABLE 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.)

NOTE: DC INPUT WIRING ENTERS INVERTER THRU CONDUIT KNOCKOUT ON LEFT SIDE OF ENCLOSURE. BYPASS AC INPUT AND AC OUTPUT WIRING ENTERS THRU CONDUIT KNOCKOUTS ON RIGHT SIDE OF ENCLOSURE.

BYPASS AC INPUT	CONNECT TO
120V	L2 & N

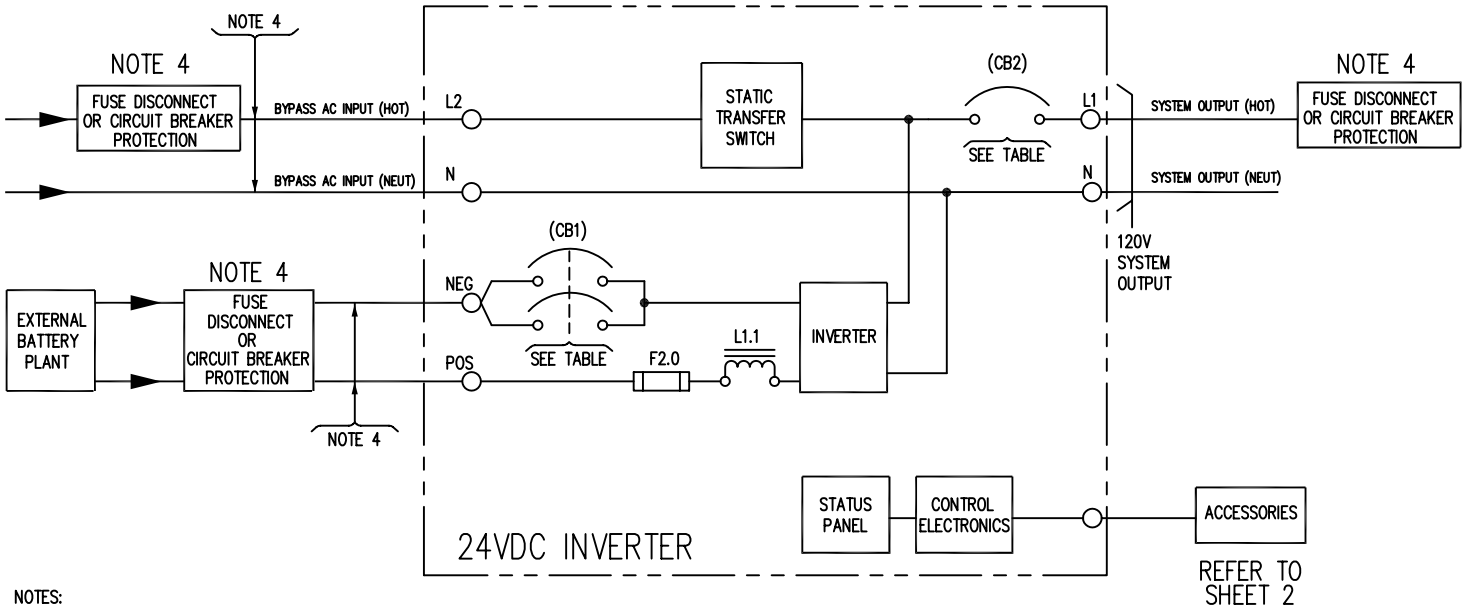
INVERTER SYSTEM OUTPUT	CONNECT TO
120V	L1 & N

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

RACK MOUNT
INSTALLER CONNECTIONS

IC5194-025

2.5KVA (120V BYPASS INPUT, 120V 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.	BYPASS AC INPUT TERM. No. (L2, N)							BATTERY LEAD TERM. No. (POS.,NEG.)							SYSTEM OUTPUT CB2 TERM. (L1), TERM. No. (N)								
		AC INPUT	MAX. LOAD CURRENT	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	(CB1) RATING	NOMINAL VOLTAGE	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	(CB2) RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING
2.5KVA	5194-025	120	20.8 AMPS	12-2 AWG	35 IN/LB	10 GA	30A	12 GA.	80A (PARALLEL POLED)	24VDC	10,000	12-2 AWG	35 IN/LB	(2) 6 GA	150A	120V	20.8 AMPS	32A	10,000	12-2 AWG	35 IN/LB	10 GA	12 GA.	30 AMPS

120V BYPASS INPUT
120V OUTPUT
INSTALLER CONNECTIONS
2.5KVA SYSTEM

IC5194-025

ISSUE