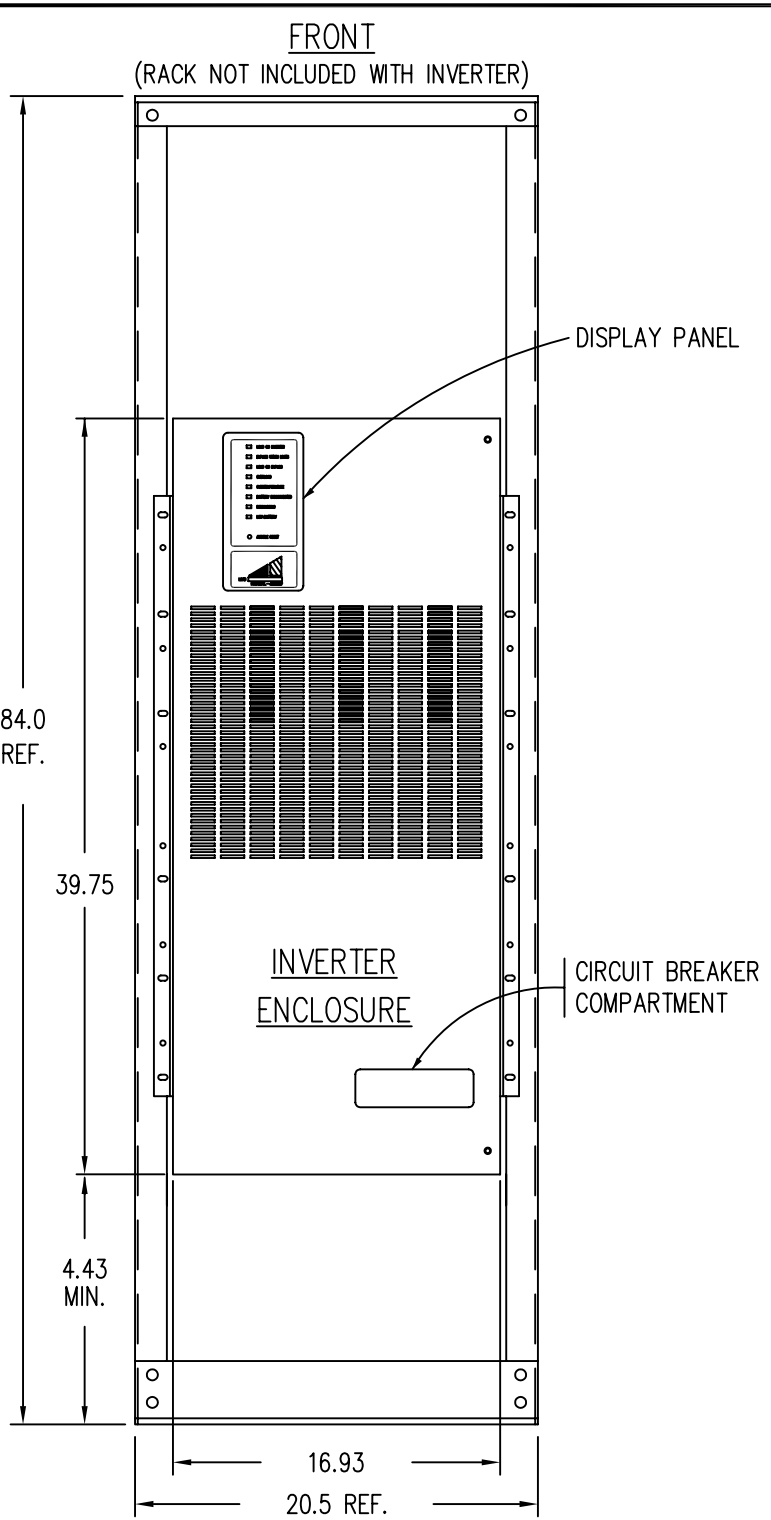
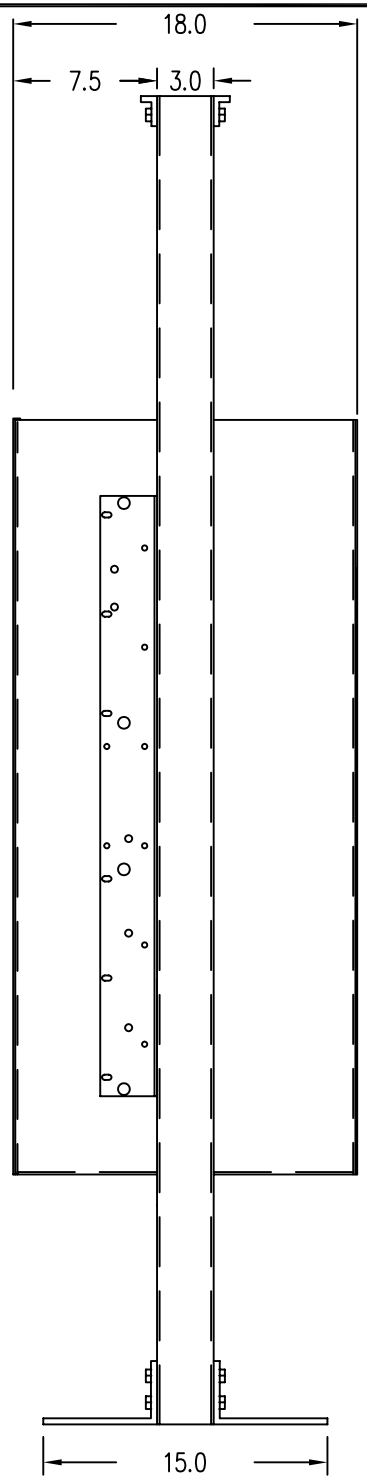




PHYSICAL INSTALLATION

1. MOUNT INVERTER ENCLOSURE TO RELAY RACK USING 12-24 SCREWS, LOCK WASHERS AND FLAT WASHERS.

GENERAL NOTES:

1 ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

2 RACK IS NOT INCLUDED WITH INVERTER SYSTEM AND IS SHOWN FOR REFERENCE ONLY.

MECHANICAL DATA

INVERTER WEIGHT: 400 LBS...10KVA

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

THERMAL DATA

HEAT DISSIPATION @ 100% LOAD
10KVA = 8.5K BTU/HR. MAX.

COOLING: FAN ASSISTED
OPERATING AMBIENT= -10°C TO +30°C

ENVIRONMENTAL DATA

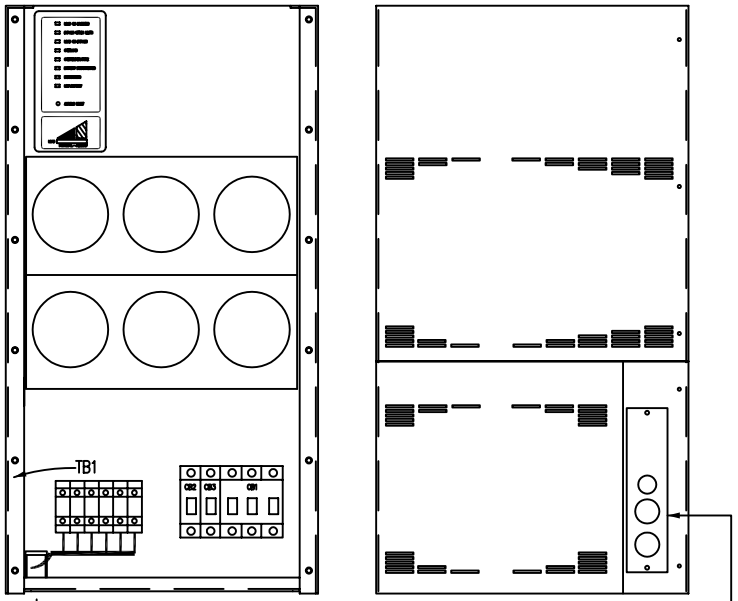
NEMA 1= INDOOR DUTY, OPEN VENTILATED, NONCORROSIVE, CONTROLLED ENVIRONMENT PER UL1778, DOES NOT PREVENT ENTRY OF DUST.
HUMIDITY RANGE: 0 TO 95%, NON-CONDENSING
ALTITUDE DERATING: NONE BELOW 7000 FT. 10%/1000 FT. ABOVE
ADUIBLE NOISE: 50dB(A), 5 FT. IN FRONT OF UNIT, 4 FT. FROM FLOOR.

RACK MOUNT
INSTALLER CONNECTIONS

DESIGN	DATE	
DRAWN WALLACE	DATE 1-7-05	IC5196-110
CHKD	DATE	
APPD R.J.MOROG	DATE 1-7-05	SHEET 1 OF 3 / ISSUE

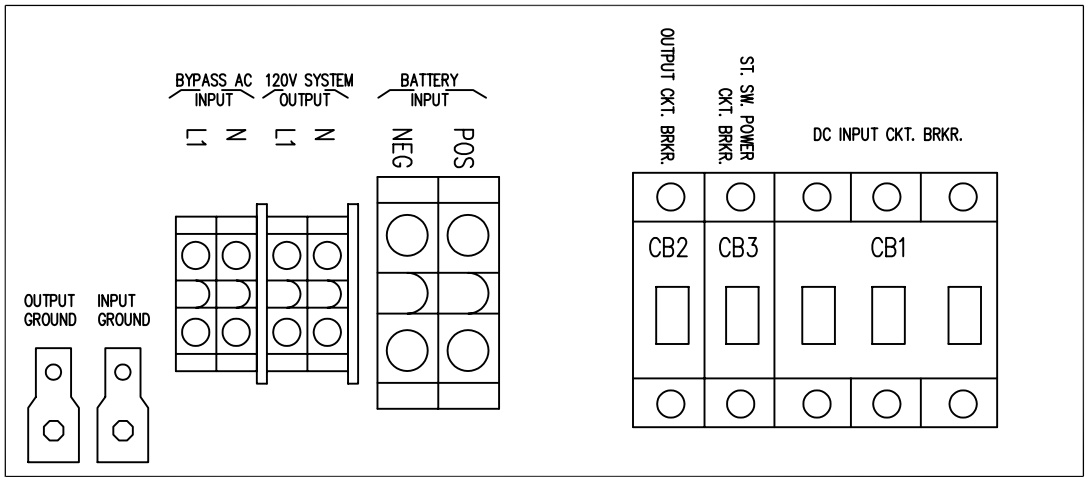
FRONT VIEW
(COVER REMOVED)

REAR VIEW



NOTE: USER CONNECTIONS ENTER INV. THROUGH KNOCKOUT PLATE ON REAR CABINET PANEL. ROUTE WIRES THRU WIREWAY PROVIDED ON LEFT SIDE OF BASE AND SECURE IN TOP OF TERMINAL BLOCKS AT FRONT OF ENCLOSURE.

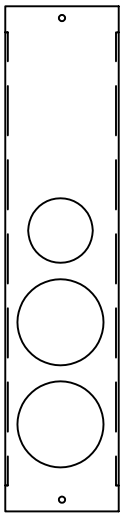
LOWER FRONT (INVERTER)



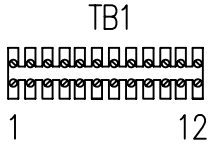
BYPASS AC INPUT VOLTAGE	CONNECT TO
120V	L1 & (N NEUTRAL)

SYSTEM OUTPUT	CONNECT TO
120V	L1 & N

BATTERY INPUT	CONNECT TO
48VDC	POS & NEG



LEFT SIDE (INSIDE INV.)



NOTE:

1. ALARM CONTACT RATING: 1/4A, 120VAC RESISTIVE. NOT TO EXCEED CLASS 2 LIMITATIONS. REFER TO NEC ARTICLE 725–31, TABLES (a) & (b).

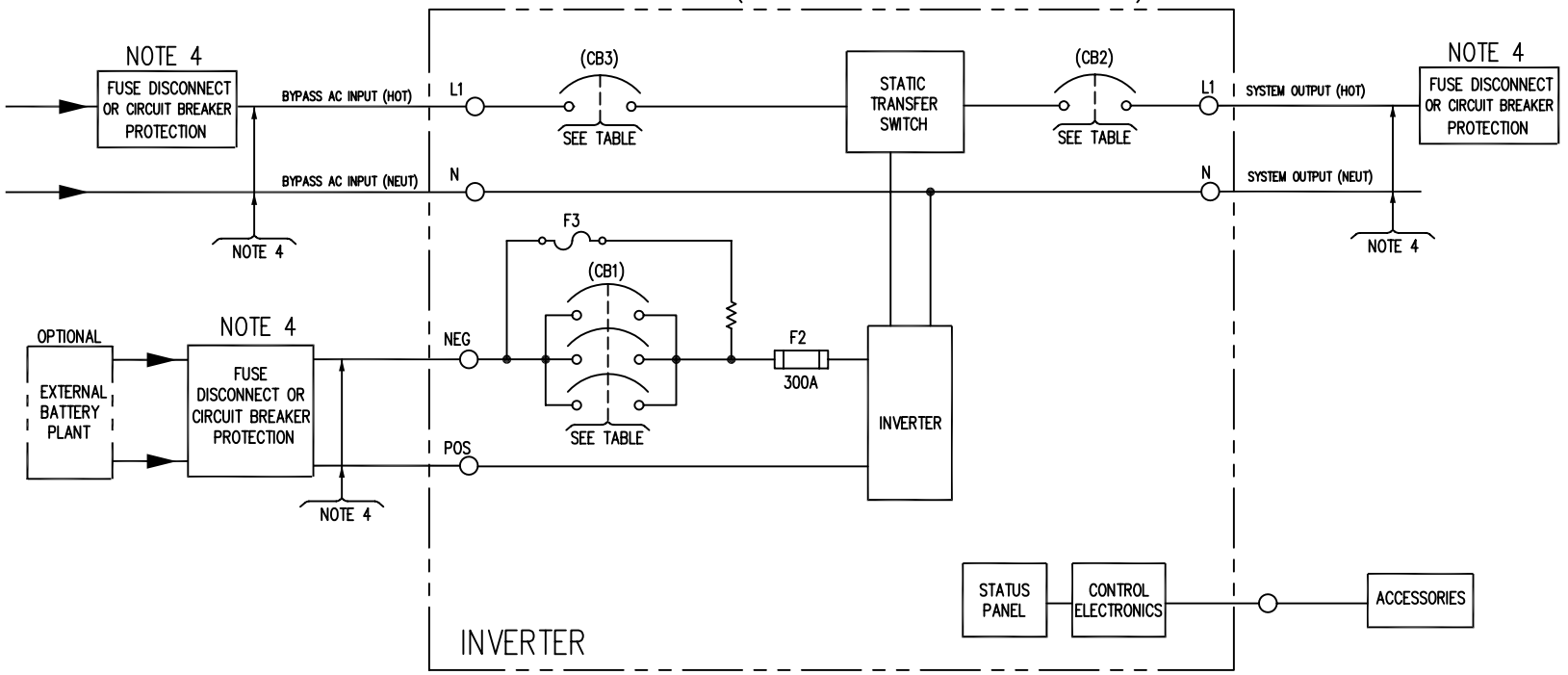
TABLE 1	
(TB1) TERM. No.	ALARM
1	ON BYPASS (N.O.)
2	ON BYPASS (COM.)
3	ON BYPASS (N.C.)
4	GEN. ALARM (N.O.)
5	GEN. ALARM (COM.)
6	GEN. ALARM (N.C.)
7	LOW BATTERY (N.O.)
8	LOW BATTERY (COM.)
9	LOW BATTERY (N.C.)
10	UTILITY FAIL (N.O.)
11	UTILITY FAIL (COM.)
12	UTILITY FAIL (N.C.)

RACK MOUNT
INSTALLER CONNECTIONS

IC5196–110

ISSUE

10KVA INVERTER (48VDC 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. (L1, N)								BATTERY LEAD TERM No. (POS.,NEG.)							SYSTEM OUTPUT TERM. No. (L1, N)							
		AC INPUT	MAX. INPUT CURRENT	(CB3) RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	(CB1) RATING	NOMINAL VOLTAGE	MAX. CURRENT	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	OUTPUT VOLTAGE	FULL LOAD CURRENT (AMPS)	(CB2) RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. GRD. SIZE	RECM. FUSING
10KVA	5196-110	120V	83.3A	100A	14-2/0 AWG	50 IN/LB	3 GA	100A	8 GA.	100A (PARALLEL POLED)	48VDC	240A	6-500MCM	500 IN/LB	300 MCM	300A	120V	83.3A	100A	14-2/0 AWG	50 IN/LB	3 GA	8 GA.	100 AMPS

48VDC INPUT
120V OUTPUT
INVERTER SYSYTEM
10KVA, 10KW

IC5196-110

ISSUE