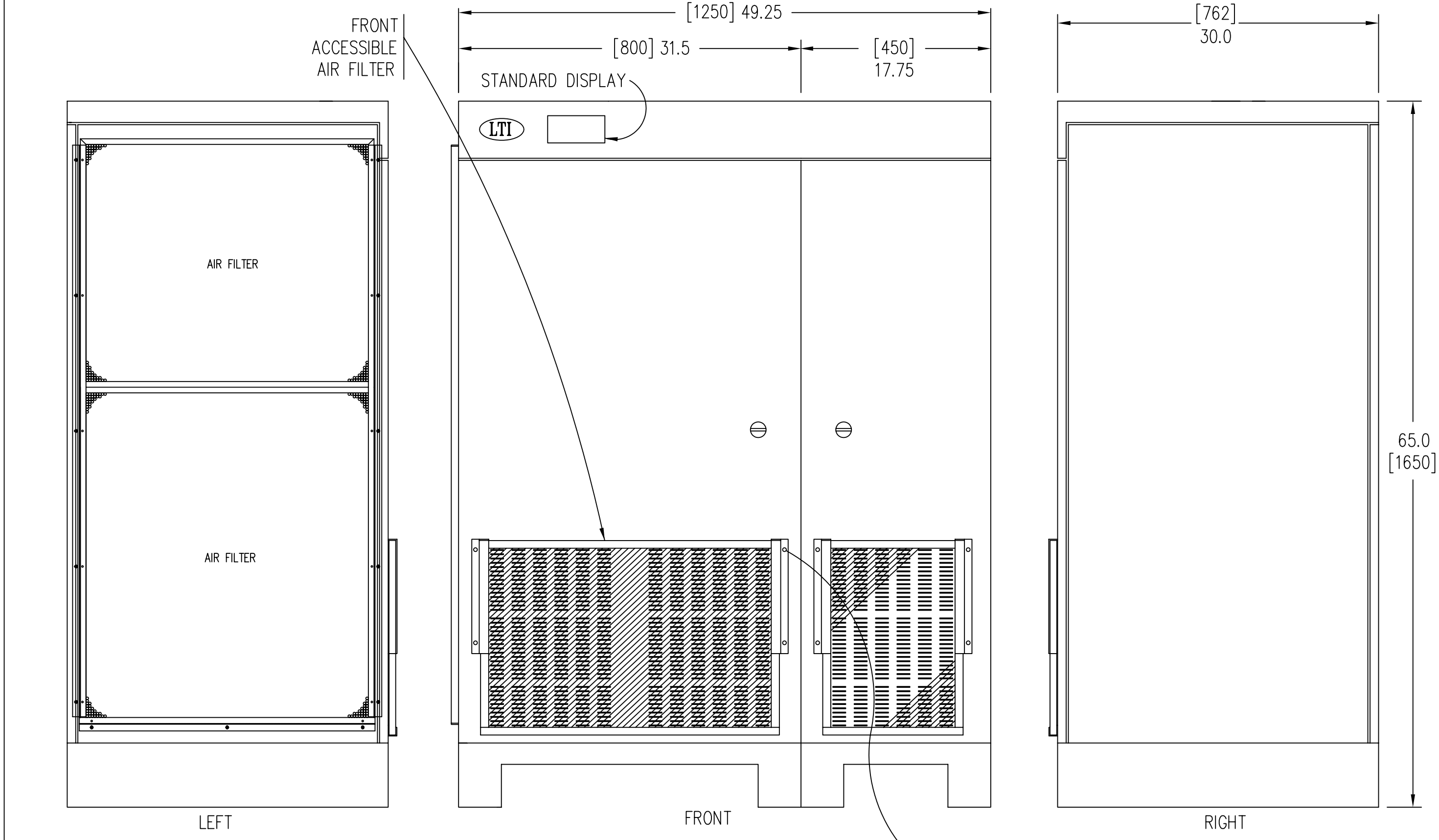
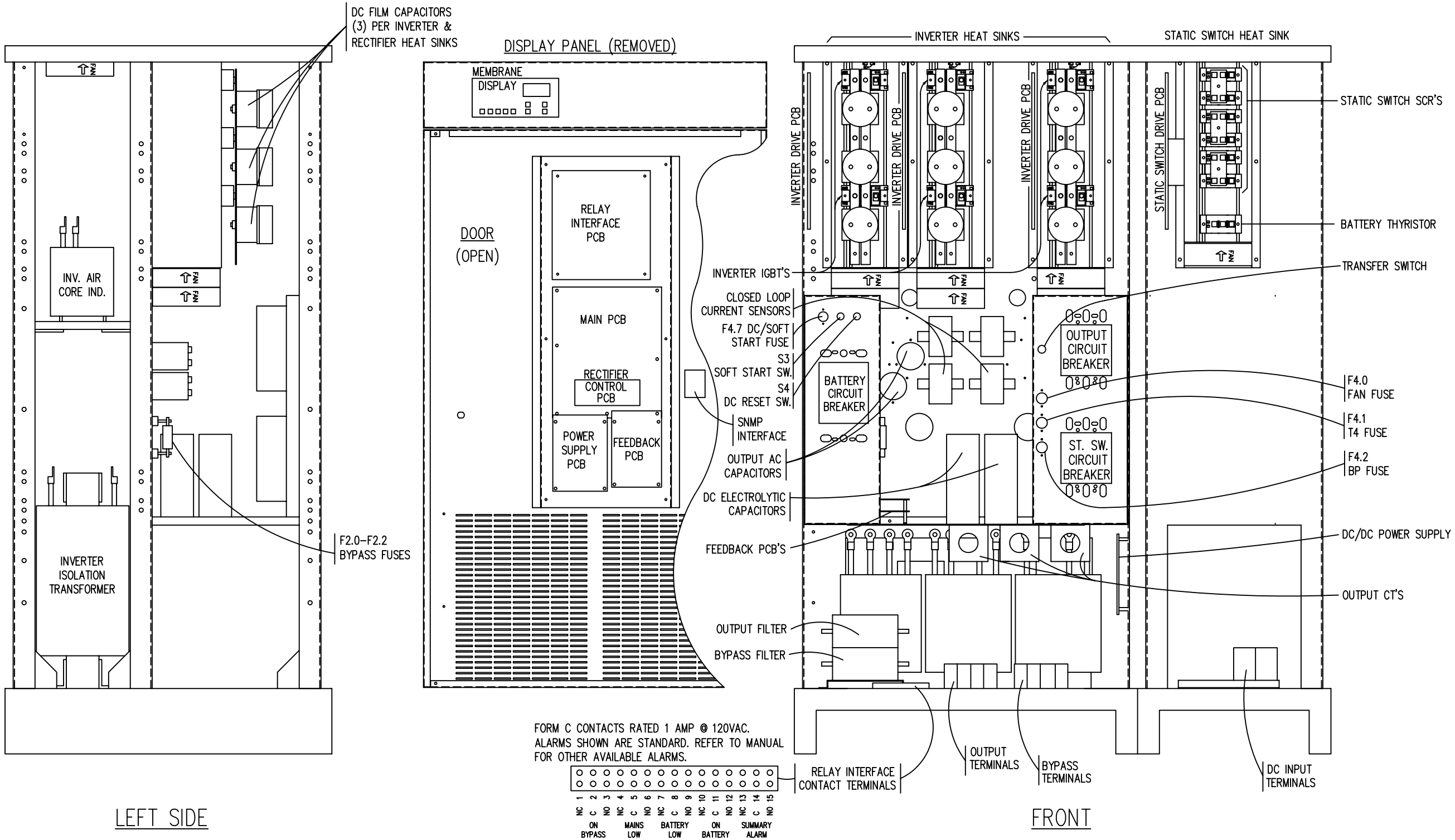


Notes: Unless otherwise specified, dimensions are in inches. Dimensions within brackets [ ] are in millimeters.
Recommended clearance for serviceability is 36" [914] in the front and 6" [152] on the remaining sides.

LTI Power Systems, Inc. TEL. (440) 327-5050 10800 Middle Ave. Elyria, Ohio 44035	ProUPS B1250 ENCLOSURE 30KVA	30KVA WEIGHT W/SKID: 1000 LBS. (771 kg)	LTI-ProUPS CAD DWG NAME: B1250CAB_30KVA_INV	REV. 1

REVISIONS			
ISS. NO.	CHGD BY CHG SUP NO.	DATE	DESCRIPTION



LEFT SIDE

FRONT

COMPONENT LOCATION DRAWING
FOR
30KVA, 120/208V OUTPUT
125VDC INVERTER SYSTEM

UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON FRACTIONS +/– 1/32 DECIMALS +/– 0.031 ANGLES +/– 1.5° | SCALE

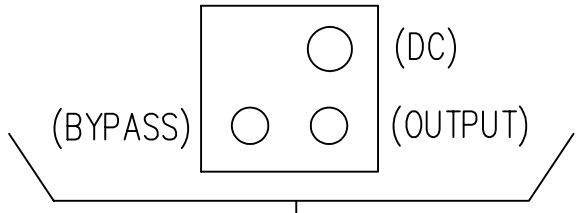
DESIGN	DATE
DRAWN WALLACE	DATE 7-27-10
CHKD	DATE
APPD	DATE

LTI
POWER SYSTEMS, INC.
ELYRIA, OHIO 44035-7822

30H20F

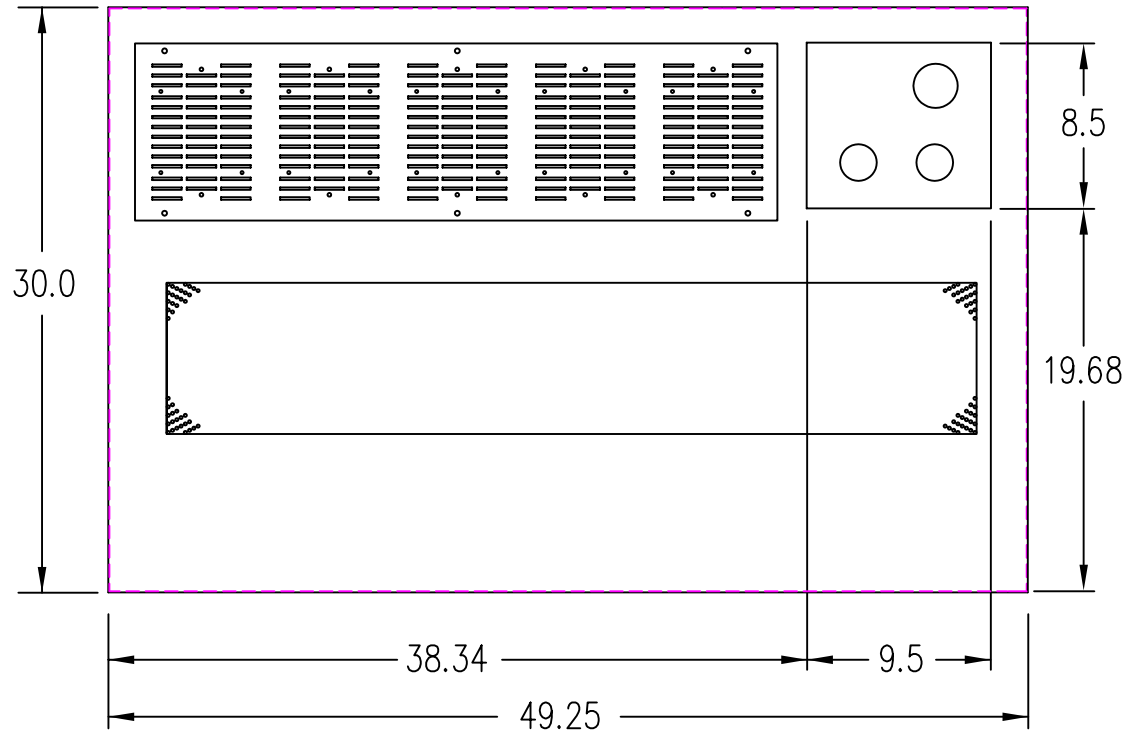
SHEET 1 OF 1 | ISSUE 1

(VIEW FROM TOP OF CABINET)

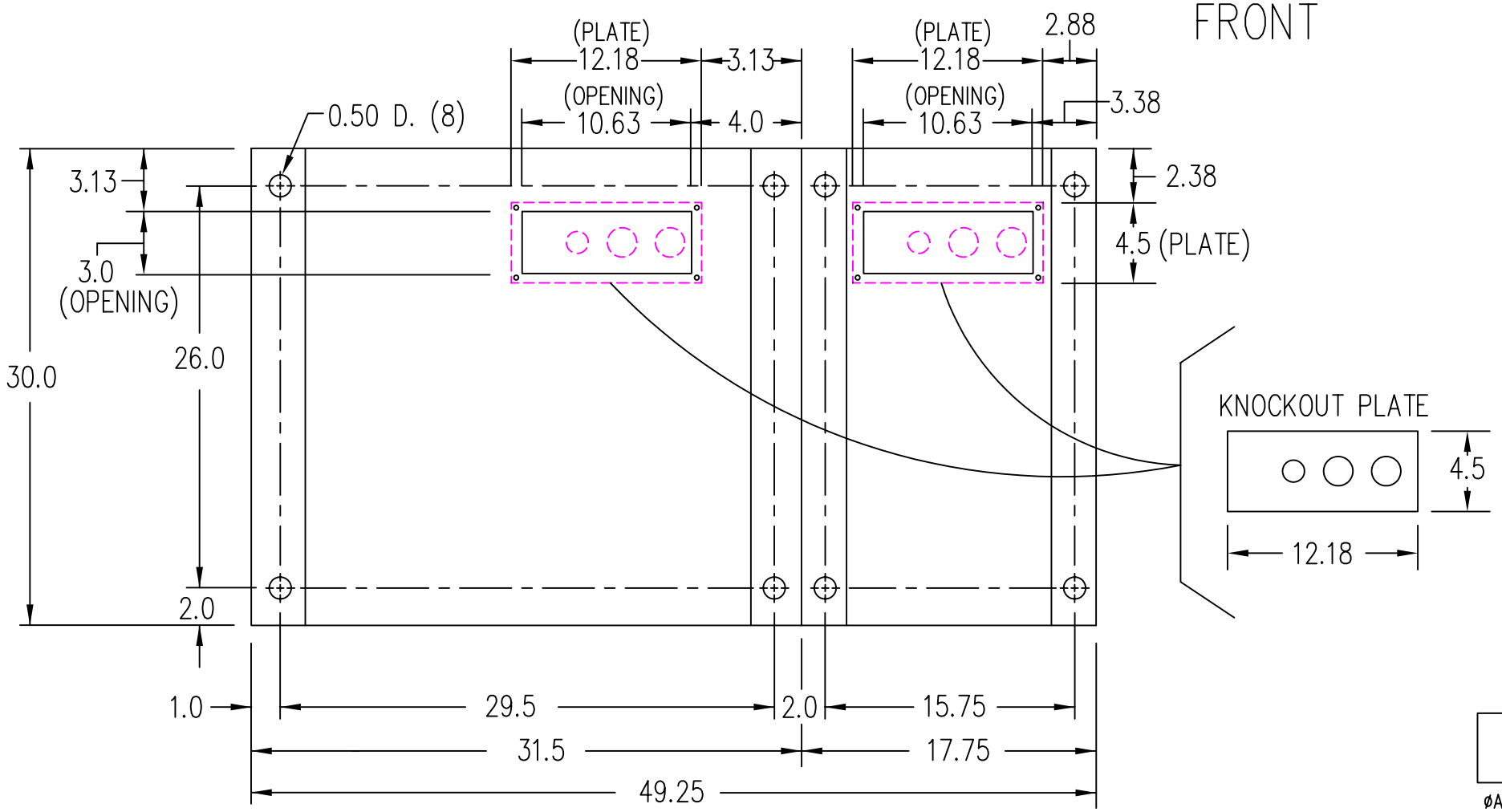


KNOCKOUT PLATE (TOP)
30KVA CONFIGURATION (120/208V)

2" CONDUIT (DC)	1–1/4" CONDUIT (BYPASS)	1–1/4" CONDUIT (OUTPUT)

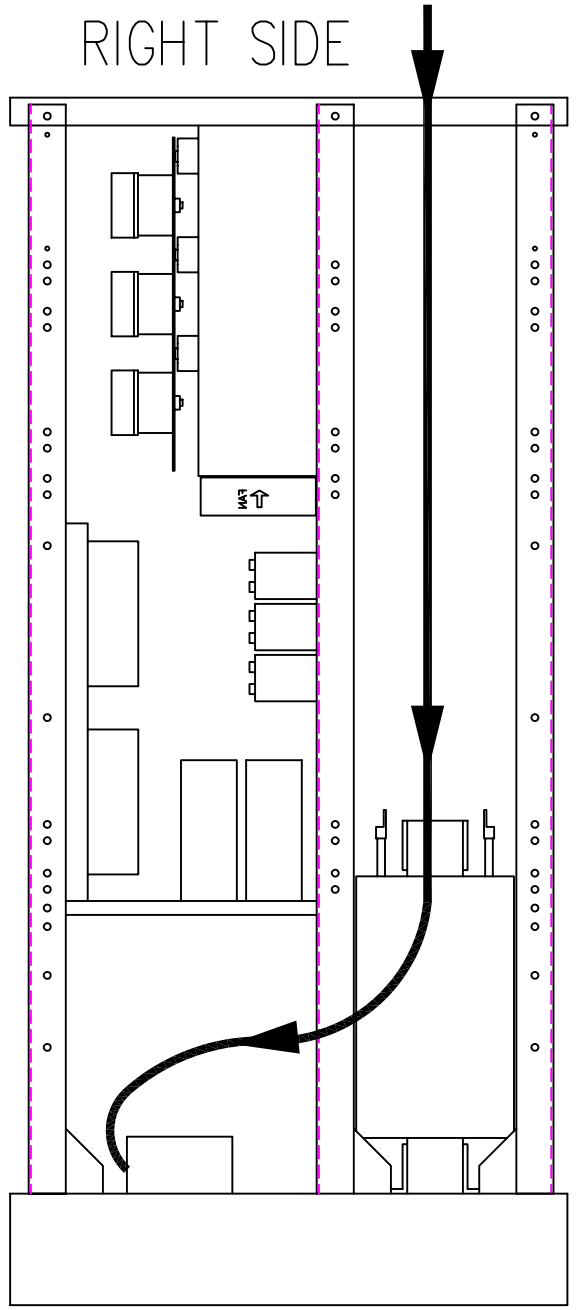


FRONT



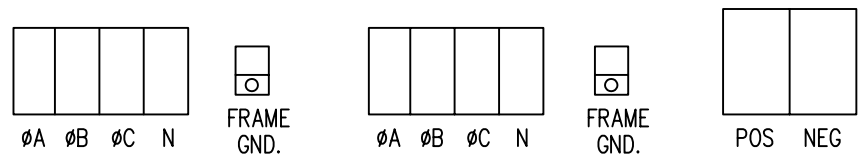
(VIEW FROM BOTTOM OF CABINET)

RIGHT SIDE



FOR TOP CABLE ENTRY, ROUTE WIRES DOWN RIGHT SIDE THROUGH OPEN AREA OF UPRIGHT CENTER PANEL TO TERMINALS LOCATED ON BASE PANEL.

TERMINATION CONFIGURATION (BOTTOM, FRONT)
TERMINAL BLOCK CAPACITY (BYPASS INPUT/AC OUTPUT): 14 TO 2/0 GA.
TERMINAL BLOCK CAPACITY (DC INPUT): (2) 500 MCM TO (2) 4 GA.
FRAME GROUND CAPACITY : 1/0 GA. TO 14 GA.



SYSTEM OUTPUT | BYPASS INPUT | DC INPUT

NOTE: ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE SPECIFIED.

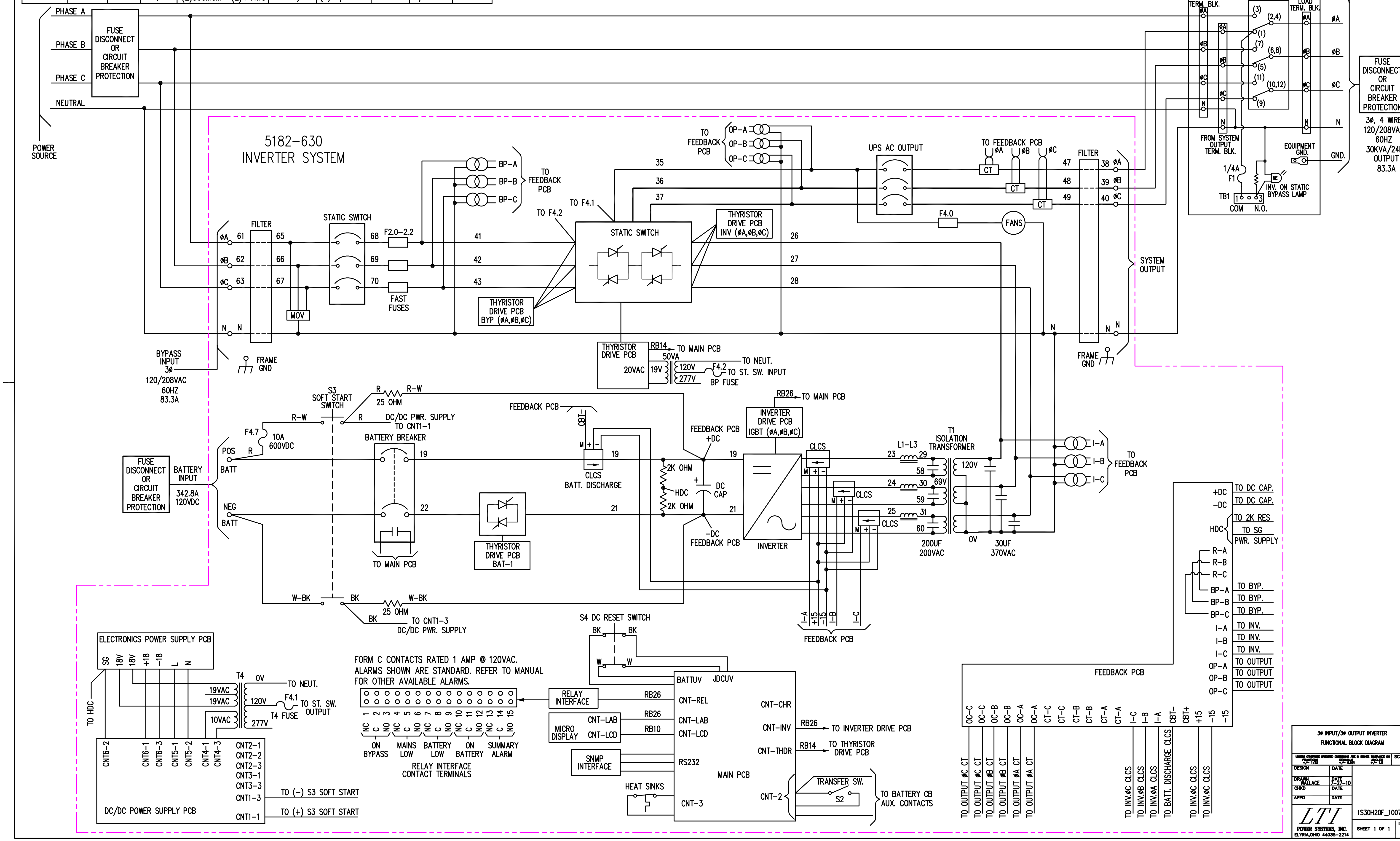
LTI Power Systems, Inc. TEL. (440) 327–5050 10800 Middle Ave. Bldg. B Elyria, Ohio 44035	30KVA INVERTER ASSEMBLY SHEET 1 OF 1	LTI–ProUPS CAD DWG NAME: 30H20F_BASE_630	REV. 1

BYPASS INPUT/ AC OUTPUT	MAX. CURRENT	CKT. BRKR. RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	RECM. CONDUIT
120/208V	83.3A	100A	25,000	14-2/0 AWG	50 IN/LBS	2 AWG	125A	8 AWG	1-1/4"

DC INPUT	MAX. CURRENT	CKT. BRKR. RATING	A.I.C. RATING	TERM. CAPACITY	TORQUE	RECM. SIZE	RECM. FUSING	RECM. GRD. SIZE	RECM. CONDUIT
120VDC	342.8A	400A	35,000	(2)500MCM -(2)4 AWG	275 IN/LBS	(2) 4/0 AWG	450A	1/0 AWG	2"

NOTES:

1. WIRE SIZES BASED ON 90°C COPPER CONDUCTORS OPERATING IN 30°C AMBIENT AND NEC TABLES 250-95 AND 310-16. INCREASE CONDUCTOR SIZE FOR LONG RUNS.
2. CLOCKWISE PHASE ROTATION MUST BE OBSERVED FOR BYPASS INPUT.
3. CLCS = CLOSED LOOP CURRENT SENSOR



4232-902
BYPASS ENCLOSURE
5182-630
INVERTER SYSTEM
PHASE A
PHASE B
PHASE C
NEUTRAL
POWER SOURCE
FUSE DISCONNECT OR CIRCUIT BREAKER PROTECTION
BYPASS INPUT 3ø 120/208VAC 60HZ 83.3A
FILTER
MOV
STATIC SWITCH
F2.0-2.2
FAST FUSES
THYRISTOR DRIVE PCB BYP (øA,øB,øC)
THYRISTOR DRIVE PCB INV (øA,øB,øC)
TO FEEDBACK PCB
TO F4.1
TO F4.2
FRAME GND
THYRISTOR DRIVE PCB
20VAC
RB14 TO MAIN PCB
50VA
TO NEUT.
TO ST. SW. INPUT
BP FUSE
UPS AC OUTPUT
F4.0
FANS
CT
SYSTEM OUTPUT
MAKE-BEFORE-BREAK CONTACTS ROTARY SW. (NORMAL POSITION)
BYPASS INPUT TERM. BLK.
LOAD TERM. BLK.
FROM SYSTEM OUTPUT TERM. BLK.
EQUIPMENT GND.
INV. ON STATIC BYPASS LAMP
1/4A F1
TB1
COM N.O.
LOAD
3ø, 4 WIRE 120/208VAC 60HZ 30KVA/24KW OUTPUT 83.3A
BATTERY INPUT 342.8A 120VDC
POS BATT
NEG BATT
F4.7 10A 600VDC
S3 SOFT START SWITCH
25 OHM
DC/DC PWR. SUPPLY TO CNT1-1
BATTERY BREAKER
TO MAIN PCB
TO CNT1-3 DC/DC PWR. SUPPLY
FEEDBACK PCB
CBT-
CLCS
BATT. DISCHARGE
THYRISTOR DRIVE PCB BAT-1
2K OHM
HDC
DC CAP
FEEDBACK PCB +DC
-DC FEEDBACK PCB
INVERTER
INVERTER DRIVE PCB IGBT (øA,øB,øC)
RB26 TO MAIN PCB
L1-L3
T1 ISOLATION TRANSFORMER
200UF 200VAC
30UF 370VAC
S4 DC RESET SWITCH
ELECTRONICS POWER SUPPLY PCB
T4
TO NEUT.
T4 FUSE
TO ST. SW. OUTPUT
TO HDC
DC/DC POWER SUPPLY PCB
TO (-) S3 SOFT START
TO (+) S3 SOFT START
FORM C CONTACTS RATED 1 AMP @ 120VAC.
ALARMS SHOWN ARE STANDARD. REFER TO MANUAL
FOR OTHER AVAILABLE ALARMS.
ON BYPASS
MAINS LOW
BATTERY LOW
ON BATTERY
SUMMARY ALARM
RELAY INTERFACE CONTACT TERMINALS
RELAY INTERFACE
MICRO DISPLAY
SNMP INTERFACE
HEAT SINKS
MAIN PCB
RB26 TO INVERTER DRIVE PCB
RB14 TO THYRISTOR DRIVE PCB
TRANSFER SW.
S2
TO BATTERY CB AUX. CONTACTS
FEEDBACK PCB
TO DC CAP.
TO 2K RES
TO SG
PWR. SUPPLY
TO BYP.
TO INV.
TO OUTPUT
TO OUTPUT øC CT
TO OUTPUT øB CT
TO OUTPUT øA CT
TO INV.øC CLCS
TO INV.øB CLCS
TO INV.øA CLCS
TO BATT. DISCHARGE CLCS

3ø INPUT/3ø OUTPUT INVERTER FUNCTIONAL BLOCK DIAGRAM	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCE ON FRACTIONS +/- 1/32 DECIMALS +/- 0.031 ANGLES +/- 1.5	SCALE
DESIGN / DATE	
DRAWN WALLACE / DATE 7-27-10	
CHKD / DATE	
APPD / DATE	
LTI POWER SYSTEMS, INC. ELYRIA,OHIO 44035-2214	1S30H20F_100734
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