# 30/40 KVA DC To AC Inverters

**Inverter Models D303CRB & D303CUB**

Output Power
- 40KVA/32kW @40°C
- 37KVA/30W @50°C

Output Current
- 32kW-111A @208VAC, 0.8pf 48A @480VAC, 0.8pf
- 30kW-104A @208VAC, 0.8pf 45A @480VAC, 0.8pf

Output Voltages
- D303CRB, 5186-390D 120/208VAC
- D303CUB, 5187-392D 277/480VAC

Nominal DC Volts
- 48VDC

Number of Cells
- Lead Acid-24 • Nicad-36

AverageDC Watts (to 1.75VPC)
- 39.4KW @ 40KVA
- 37KW @37KVA

Efficiency
- DC to AC 81%

Heat Dissipation
- 24,500 BTU/Hr at full load (30kW)

Dimensions
- 60"W x 30"D x 80"H
- 152.4cmW x 76.2cmD x 203.2cmH

Weight
- 3,700 lbs./1665 kg

This true "on-line" Inverter design insures maximum critical load protection. The inverter converts existing 48VDC battery power into an isolated, conditioned and uninterruptible source of AC. This reliable and cost effective solution includes standard features such as static bypass switch and wraparound maintenance bypass switch.


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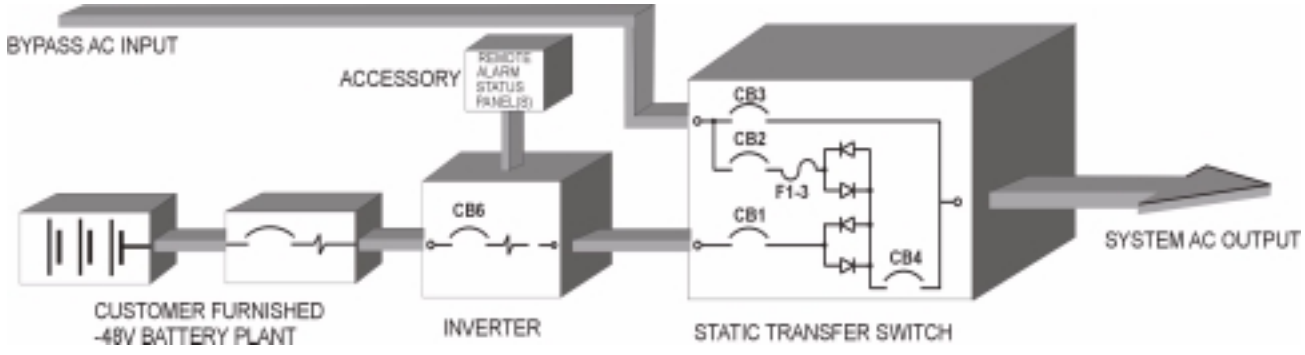

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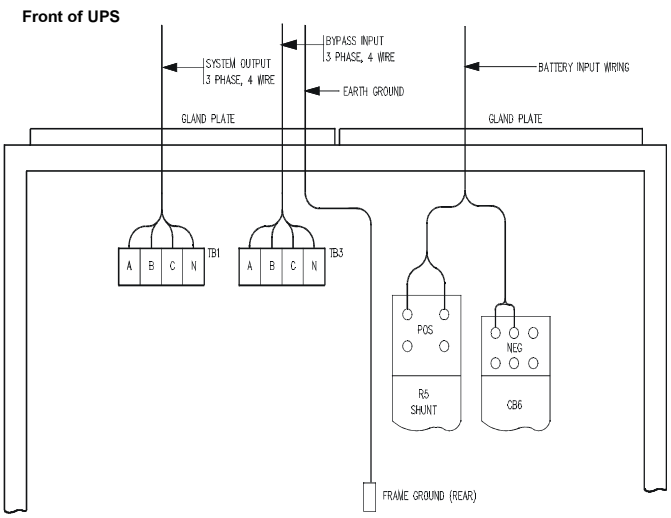
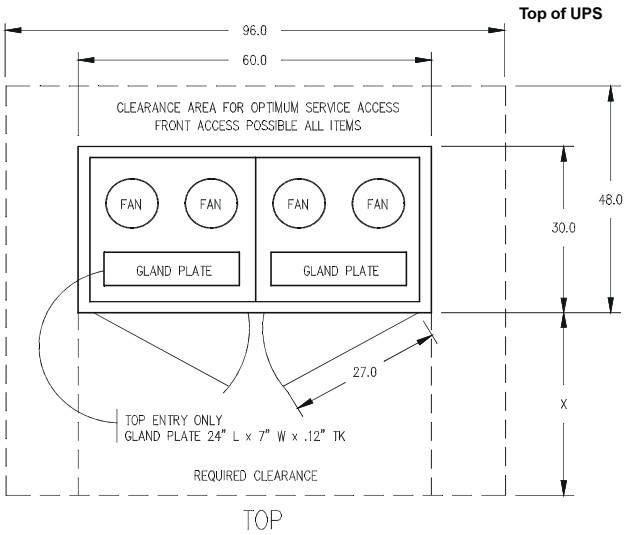
## Power Connection Locations




NOTES: Mounting holes in bus bars (POS & NEG) Battery Leads) will accept crimp type terminal lugs (NEMA Two Hole Spacing). Terminals and cable are not provided. All grounds shown should be run separately to a single grounding point at the service, per IEEE Standard 446-1980. Positive ground to frame provided by jumper. Removal optional after installation and testing.

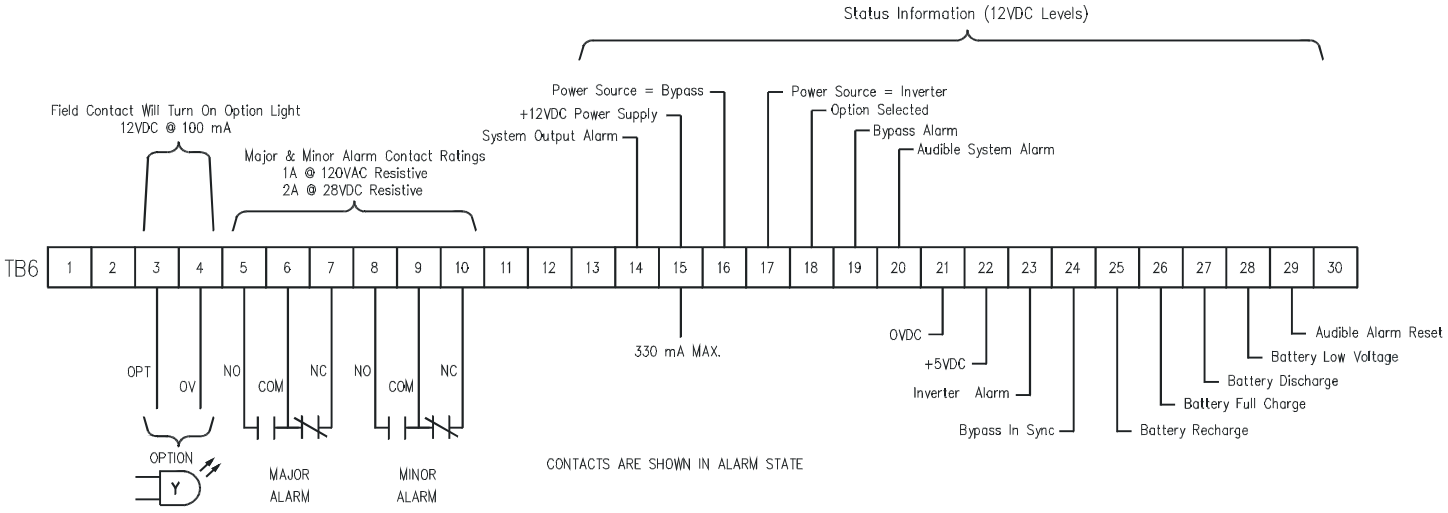
X= 3 Ft. If no live or grounded parts on other side of working space
X= 3.5 Ft. If grounded parts on other side
X= 4 Ft. If exposed live parts on both sides of the workspace

## Wiring Table

| Spec No. | Nominal Input Voltage | System Output Voltage | DC Input Amps At Full Load & 52V | | DC Input at Full Load & 42V | |
|---|---|---|---|---|---|---|
| | | | Amps | kW | Amps | kW |
| 5186-390D | 48 | 120/208 | 715 | 37.2 | 880 | 37 |
| 5187-392D | 48 | 277/480 | 715 | 37.2 | 880 | 37 |

| | Battery Leads | | | Bypass AC Input (TB3) | | | AC Output (TB1) | | Frame Ground | |
|---|---|---|---|---|---|---|---|---|---|---|
| Spec No. | Bus Bar Capacity | Recm Size | Recm Fusing | Terminal Capacity | Recm Size | Recm Fusing | Terminal Capacity | Recm Size | Terminal Capacity | Recm Size |
| 5186-390D | (4) NEMA 2 Hole Lugs* | (4) 250MCM | 1000A | 6 GA to 250 MCM | 1/0 | 150 | 6 GA to 250 MCM | 1/0 | 4GA to 350MCM | 2/0 |
| 5187-392D | (4) NEMA 2 Hole Lugs* | (4) 250MCM | 1000A | 6GA to 250 MCM | 4 GA | 70 | 6 GA to 250 MCM | 4 GA | 4 GA to 350MCM | 2/0 |

**NEMA Lugs not provided. Wire sizes conform to N.E.C. tables 250-95 and 310-16 for 75 DEB.C copper conductor temperature, operating in a 30 DEB. C ambient. No guarantee is made that they will meet state or local codes.*





**LTI Power Systems is a ISO9001-2000 listed manufacturer**

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