

Backroom Ltd

The International Power Solutions Company

Ref: 90kVA Iso transformer
20/1/09

Lite Alternative Ltd

Backroom Ltd certify that this equipment provided to you under our Job# 3909 delivered to Lite Structures, Wakefield 21/1/09 has been tested in accordance with our Safety procedures and internal Quality Assurance program.

Test item is a 90kVA double wound transformer and associated equipment.

Pre assembly test.

The test item passed Insulation Resistance Testing.
IRT was performed between Earth and all winding termination points on the Test item
Readings were all indicated as open
IRT was performed between Test item Star points.
Readings were all indicated as open.
The test voltage was 500V DC

The Test item has passed Ratio 1:1 and Phase Rotation Testing.

Input 415V, 400V, 380V
Output 415V, 400V, 380V
Phase in 1,2,3
Phase out 1,2,3

Post assembly test.

Earth fault on load side will not trip RCD protective device on supply side.
Test item was supplied from a certified 30mA protected service.
RCD test performed at the following fault levels.
30mA, no trip
100mA, no trip
300mA, no trip
500mA, no trip
The test item was then bypassed and the 30mA trip operated as normal.

The Test item has passed on load Operation Testing.

Meters were checked for function and indications
All readings were satisfactory, indicating accurate display of applied values.

V L-N

A /PH

V L-L

Voltage applied 415V ie 240V/PH

Load applied 6KW/Phase

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Company number 3334129 VAT number GB 696 7216 86

The Test item has passed Earth Bond Testing to the following criteria.
A reference resistance 0.10 Ohms was applied to the earth pin on the 125A male
Various readings were taken across the Test item
Earth points on transformer
Rack strip earth points
Readings were recorded with no more than 0.02 Ohms deviation
The test current was 25A applied for 5 Secs.

Test equipment utilised during the procedures above

Telaris Installation Tester # 94710000 cal date 17/10/08
Metrel BetaPAT # 14093223 cal date 4/3/08
Voltech AC Power Analyser# EDL1275 cal date 13/8/08
Fluke 87 V Multi Meter #91340161 cal date 17/10/08
Regavolt Variac system# EDL1125 cal date 17/1/09*

*Calibrated to Voltech AC Power Analyser# EDL1275 cal date 13/8/08
All calibration certificate information is available on request.

In conclusion the Test item is certified and tested.
The Test item is safe to use.

This equipment must be correctly isolated before accessing any internal part

#This equipment should only be operated by competent / suitably trained persons who fully understand the implications of any actions they may undertake.
#All main terminal connections should be periodically checked for tightness.
#Always check the supply configuration and voltages before connection

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We trust this report is satisfactory and fulfills your needs, if there are any queries please contact us at your convenience.

Test Technicians

James Rooke
Laurence Dunnett

Verified and checked from results and images recorded during testing.

Laurence Dunnett 21st Jan 2009.

Laurence Dunnett
TD
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