



GE Energy

Functional Testing Specification

*Parts & Repair Services
Louisville, KY*

LOU-GED-531X112PSA

Test Procedure for AC 300 Power Supply

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1. SCOPE

1.1 This is a functional testing procedure for a Card.

2. STANDARDS OF QUALITY

2.1 Refer to the current revision of the IPC-A-610 standard for workmanship standards.

3. APPLICABLE DOCUMENTS

3.1 The following document(s) shall form part of this specification to the extent specified herein.
Unless otherwise indicated, the latest issue shall apply.

3.1.1

4. ENGINEERING REQUIREMENTS

4.1 Equipment Cleaning

4.1.1 Equipment should be clean and free of debris prior to applying power unless performing an initial check. Refer to the local documented procedures for cleaning guidelines.

4.2 Equipment Inspection

4.2.1 Equipment should be visually inspected for any defects prior to applying power. This inspection should include the following as a minimum:

4.2.1.1 Wires - broken, cracked, or loosely connected

4.2.1.2 Terminal strips / connectors - broken or cracked

4.2.1.3 Components - visually damaged

4.2.1.4 Capacitors - bloated or leaking

4.2.1.5 Solder joints - damaged or cold

4.2.1.6 Circuit board - burned or de-laminated

4.2.1.7 Printed wire runs / Traces - burned or damaged

5. EQUIPMENT REQUIRED

5.1 The following equipment is required to perform the process requirements. Equipment may be substituted provided that all accuracy's and test ratios are equivalent or better.

Qty	Reference #	Description
1	H033754	AC 300 drive
1		Any calibrated Digital Multimeter

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6. TESTING PROCESS

6.1 Setup

6.1.1 Set jumpers and pot's as per test-drive.

6.2 Testing Procedure

6.2.1 Install card in drive and apply power.

6.2.2 (Power supply voltages), Put the meter com lead on 3TB pin 67 and pos on 3TB pin 68
Should be +5 volts +/- 1 %.

Put meter pos lead on 3TB pin 66 and should read +15 volts +/- 1%.

Put meter pos lead on 3TB pin 64 and should read –15 volts +/- 1%.

Turn drive to start and turn speed to approx 50% and drive should ramp up and be linier

Run for about ½ hour then turn speed to zero and turn drive off.

6.3 **TEST COMPLETE *****

7. NOTES

7.1 None at this time

8. ATTACHMENTS

8.1 None at this time