



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-173C8427CAG-A

Test Procedure for a 173C8427CAGxx LCI Power Supply

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DATE 4/13/2012	DATE	DATE	DATE 4/13/2012

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1. SCOPE

1.1 This is a functional testing procedure for a LCI Power Supply.

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 Check board's electronic folder for more information

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 site specific SRA's 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	H033751	19" Rack Load
1		Fluke 87 Multimeter or Equal

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6. Modifications/Upgrades

6.1 Check Orange Book for any modifications or upgrades.

7. Testing Process

7.1 Setup

7.1.1 Hook a 120 VAC power cord to input power .250 spade terminals L, N and Ground, **DO NOT APPLY POWER YET.**

7.1.2 Connect JA connector on load to JP on UUT.

7.1.3 Connect JB connector on load to JN on UUT.



Note: Unit contains power supplies in 4 slots. SLOT 1 is 5 VDC, SLOT 2 is 24 VDC, SLOT 3 is 12 VDC and SLOT 4 is dual 15 VDC and provides positive and negative 15 VDC output.

7.2 Testing Procedure

7.2.1 Apply 120VAC to UUT.

7.2.2 Turn the first load to 10 AMPS and verify 5 VDC at the banana jacks on top of load.

7.2.3 Return to 0 AMPS.

7.2.4 Turn the second load to 8 AMPS and verify +15 VDC at the banana jacks on top of load.

7.2.5 Return to 0 AMPS.

7.2.6 Turn the third load to 8 AMPS and verify -15 VDC at the banana jacks on top of load.

7.2.7 Return to 0 AMPS.

7.2.8 Turn the forth load to 8 AMPS and verify +24 VDC at the banana jacks on top of load.

7.2.9 Return to 0 AMPS.

7.2.10 Use multi-meter and check for 12 VDC between terminals SLOT 3 1+ and 2-.

7.2.11 This unit is rated at 400 Watts max output. That is the reason for testing each slot separately. If you would like to allow the unit to run, Load each slot to approximately 2 Amps, so as not to exceed maximum output rating

7.3 *****TEST COMPLETE*****

8. Notes

8.1 None at this time.

9. Attachments

9.1 None at this time.