g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-DS2020DACAG2**

Test Procedure for a Power Supply

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1. SCOPE

1.1 This is a functional testing procedure for a 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		Fluke 87 DMM (or Equivalent)
1	H033963	Blue Load Cart
1		O-Scope
1		230VAC 3-Phase Source

6. TESTING PROCESS

6.1 Setup

6.1.1 Using the big blue load cart H033963 connect the output of the UUT, connector JZ, to the load cart.

6.1.2 Pins JZ9 and JZ12 to the input marked “positive” of the load and pins JZ7 and JC10 to the 3rd 5.6 ohm connector on the cart making a total of 16.2 ohms of load.

6.1.3 Connect the connector coming from the UUT transformer to connector marked “JTX1”.

6.1.4 Connect 115VAC to connector JZ between pins JZ1 and JZ3. Note: This unit draws about 11 amps of input current, so be sure to have a sufficient source.

6.1.5

6.2 Testing Procedure

6.2.1 Verify the output voltage, across the load, is approx. 110VDC (+-5%) with < 10V P-P AC ripple.

6.2.2 Remove power and move transformer connector from JTX1 to JTX2.

6.2.3 Apply 230VAC to connector JZ between pins JZ1 and JZ3.

6.2.4 Verify the output voltage, across the load, is approx. 110VDC (+-5%) with < 10V P-P AC ripple.

6.3 ***TEST COMPLETE ***

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.