g GE Energy	**Functional Testing Specification**
Parts & Repair Services ***Louisville, KY***	**LOU-GED-68A7450P1C**

Test Procedure for a 68A7450P1C Power Supply

DOCUMENT REVISION STATUS: Determined by the last entry in the "REV" and "DATE" column

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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		Tenma DC Power Supply

6. Testing Process

6.1 Testing Procedure

6.1.1 Place jumper JP1, JP2, and JP3 in position 2-3.

6.1.2 Measure 18k ohms +/- 10% from E1 to connector J1-1.

6.1.3 Measure 18k ohms +/- 10% from E2 to connector J1-1.

6.1.4 Measure 1uf +/- 10% across capacitor C1.

6.1.5 Measure 1uf +/- 10% across capacitor C2.

6.1.6 Measure 1uf +/- 10% across capacitor C3.

6.1.7 Measure 1uf +/- 10% across capacitor C4.

6.1.8 Measure 2k ohms +/- 1% from connector J1-2 to jumper JP3-1.

6.1.9 Measure 2k ohms +/- 1% from connector J1-2 to jumper JP3-2.

6.1.10 Connect 24VDC+ to the cathode of D1 and negative to the anode of D1.

6.1.11 Apply voltage and verify that from JP3-2 to J2-1 measure and open resistance and JP3-2 to J2-2 measures less than 1 ohm.

6.2 ***TEST COMPLETE ***