



GE Energy

Functional Testing Specification

Parts & Repair Operations
Louisville, KY

LOU-GED-DS2020FEBNR-A

Test Procedure for an EX2000 Power Supply

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LOU-GED-DS2020FEBNR REV. A	g GE Energy <i>Parts & Repair Operations</i> <i>Louisville, KY</i>	Page 2 of 3
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1. SCOPE

1.1 This is a functional testing procedure for a DS200FEBNR Assembly.

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.

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		SCR Firing Box
1		Load Cart
1		Scope
1		480VAC

LOU-GED-DS2020FEBNR REV. A	 GE Energy <i>Parts & Repair Operations</i> Louisville, KY	Page 3 of 3
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6. TESTING PROCESS

6.1 Setup

- 6.1.1 Assemble unit.
- 6.1.2 Hook up load to FN and FP. Use the 42-ohm load off of load cart. Attached scope to FN and FP.
- 6.1.3 Hook up 480VAC single-phase power to AC5 and AC4.
- 6.1.4 Attach cable to the FPL connector on the DS200FSAA board, then attach other end to the SCR Firing box.

6.2 Testing Procedure

- 6.2.1 Apply power.
- 6.2.2 Turn up SCR firing box and switch to boost.
- 6.2.3 You should see a half on the scope. As you turn up firing box the half wave should move closer to a 90 angle. Unit will be at full conduction at 90 degrees.
- 6.2.4 Verify unit adjusts smoothly.
- 6.2.5 Turn off firing box.
- 6.2.6 Turn off 480VAC power.
- 6.2.7 Disconnect unit and complete job.
- 6.2.8 End of test.

6.3 Post Testing Burn-in Required ___ Yes X No

6.4 ***TEST COMPLETE***

7. NOTES

7.1

8. ATTACHMENTS

8.1