



GE Energy

Functional Testing Specification

Parts & Repair Services
Louisville, KY

LOU-GED-DS200DPCB

Test Procedure for an IOS Power Connect Card.

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REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Roger Johnson	11/24/2010
B	Revised removed step 6.1.3 no jumpers listed in MRP so do not add.	J. Francis	12/17/2010
C			

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DATE 11/24/2010	DATE 12/17/2010	DATE	DATE 11/30/2010

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1. SCOPE

1.1 This is a functional testing procedure for a IOS Power Connect 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 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)

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6. TESTING PROCESS

6.1 Setup Testing Procedure

6.1.1 Trace Continuity Test

6.1.1.1 Inspect all traces and spade connectors for damage or cracked solder connections.

6.1.1.2 All trace tests use a Fluke 87 DMM (or Equivalent).

6.1.1.3 Verify CPTB-1 connects to TX10 short (< 1 ohm).

6.1.1.4 Verify CPTB-2 connects to TX11 short (< 1 ohm).

6.1.1.5 Verify CPTB-3 connects to TX9 short (< 1 ohm).

6.1.1.6 Verify FXTB-1 connects to TX7 and TX1 short (< 1 ohm).

6.1.1.7 Verify FXTB-2 NO CONNECTION.

6.1.1.8 Verify FXTB-3 connects to CFU1 short (< 1 ohm).

6.1.1.9 Verify TX2 connects to TX8.

6.1.1.10 Verify TX4 connects to TX6.

6.1.1.11 Verify TX3 connects to TX5.

6.1.2 Switch S1 Test.

6.1.2.1 Connect a meter lead to CFU1.

6.1.2.2 Connect a meter lead to TX8.

6.1.2.3 Close S1 verify a short (< 1 ohm) from CFU1 to TX8.

6.1.2.4 Open S1 verify an open from CFU1 to TX8.

6.1.2.5 Cycle S1 several times and verify that the switch S1 will open and close each time.

6.2 ***TEST COMPLETE***

7. NOTES

7.1 None at this time.

8. ATTACHMENTS

8.1 None at this time.