



GE Energy

## Functional Testing Specification

Parts & Repair Services  
Louisville, KY

LOU-GED-DS200FPSA

## Test Procedure for a DS200FPSA

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REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	J. Wychulis	1/26/2012
B	Added diagram to 9.0 attachments per JCW	L. Groves	2/9/2018
C			

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DATE 1/26/2012	DATE	DATE	DATE 1/26/2012

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## 1. SCOPE

1.1 This is a functional testing procedure for a DS200FPSA, fan 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		50 VDC power supply
1		12 VDC power supply
1		Fluke meter
1	H188995	Test Fixture

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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 If unit is DS200FPSAG1ABB version J1 jumper should be 1-2.

7.1.2 Put board on fixture H188995 and connect the wires as marked.

### 7.2 Testing Procedure

7.2.1 All switches are in down to start.

7.2.2 Turn on power supplies.

7.2.3 Switch 1 to up position.

7.2.4 DS200FPSAG1AAA version reads 27.2VDC to 31.4VDC, whereas a DS200FPSAG1ABB reads 24.5VDC to 28.4VDC on meter.

7.2.5 Push SW2 up

7.2.6 DS200FPSAG1AAA version reads 27.2VDC to 31.4VDC, whereas a DS200FPSAG1ABB reads 24.5VDC to 28.4VDC on meter.

7.2.7 Push SW3 up

7.2.8 Meter reads -0.5VDC to 0.5VDC.

7.2.9 All switches to down position

### 7.3 **\*\*\*TEST COMPLETE\*\*\***

## 8. Notes

8.1 None at this time.

## 9. Attachments

