



GE Energy

## Functional Testing Specification

Parts & Repair Services  
Louisville, KY

LOU-GED-68A7450P1C

### Test Procedure for a 68A7450P1C Power Supply Assembly

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	M. Trull	04/08/2013
B			
C			

© COPYRIGHT GENERAL ELECTRIC COMPANY

Hard copies are uncontrolled and are for reference only.

PROPRIETARY INFORMATION – THIS DOCUMENT CONTAINS PROPRIETARY INFORMATION OF GENERAL ELECTRIC COMPANY AND MAY NOT BE USED OR DISCLOSED TO OTHERS, EXCEPT WITH THE WRITTEN PERMISSION OF GENERAL ELECTRIC COMPANY.

PREPARED BY M. Trull	REVIEWED BY	REVIEWED BY	QUALITY APPROVAL <i>Charlie Wade</i>
DATE 04/08/2013	DATE	DATE	DATE 4/8/2013

LOU-GED-68A7450P1C REV. A	g  <b>GE Energy</b> <i>Parts &amp; Repair Services</i> <i>Louisville, KY</i>	Page 2 of 3
------------------------------	--	-------------

## 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		115VAC Variac

<p><b>LOU-GED-68A7450P1C REV. A</b></p>	<p><b>g</b></p> <p><b>GE Energy</b> Parts &amp; Repair Services Louisville, KY</p>	<p><b>Page 3 of 3</b></p>
---	--	---------------------------

## 6. Testing Process

### 6.1 Setup

- 6.1.1 Connect jumper H1 to H3 and H2 to H4.
- 6.1.2 Connect single phase 115vac to TB1- 10 and TB1- 11.

### 6.2 Testing Procedure

- 6.2.1 Apply input power to TB1- 10 and TB1- 11.
- 6.2.2 Check for approximately 50vdc at TB1- 1 and TB1- 3, voltage tolerance is +-10%.
- 6.2.3 Check for approximately 50vdc at TB1- 4 and TB1- 6, voltage tolerance is +-10%.
- 6.2.4 Check for approximately 28vdc at TB1- 7 and TB1- 9, voltage tolerance is +-5%.

### 6.3 \*\*\*TEST COMPLETE \*\*\*

## 7. Attachments

- 7.1 None at this time.