

**g**

GE Industrial Systems

**Functional Testing Specification**

*Renewal Services  
Louisville, KY*

**LOU-GED-193X274xx**

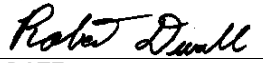
**Test Procedure for a Power Universal Amp Card**

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Dan Laemmle	11/06/2003
B			
C			

© COPYRIGHT GENERAL ELECTRIC COMPANY

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.

<b>PREPARED BY</b> D. Laemmle	<b>REVIEWED BY</b>	<b>REVIEWED BY</b>	<b>QUALITY APPROVAL</b> 
<b>DATE</b> 11/06/2003	<b>DATE</b>	<b>DATE</b>	<b>DATE</b> 11/7/03

## Functional test procedure for a 193X274AAG01 Card

### 1. SCOPE

1.1 This is a functional testing procedure for a Power Universal Amplifier 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 **GEK-24944**

### 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 or cracked

4.2.1.2 Terminal strips / connectors broken or cracked

4.2.1.3 Loose wires

4.2.1.4 Components visually damaged

4.2.1.5 Capacitors leaking

4.2.1.6 Solder joints damaged or cold

4.2.1.7 Circuit board burned or de-laminated

4.2.1.8 Printed wire runs 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 85 DMM (or Equivalent)

LOU-GED-193X274xx REV. A	g  <i>GE Industrial Systems</i> <i>Renewal Services</i> <i>Louisville, KY</i>	Page 3 of 3
-----------------------------	---	-------------

## 6. TESTING PROCESS

### 6.1 Setup

**6.1.1** Apply +20VDC to Pin 30, -20 VDC to Pin 3. Commons to Pin 15.



**Note:**

### 6.2 Testing Procedure

**6.2.1** Apply power.

**6.2.2** Jumper Pin 23 to Pin 25.

**6.2.3** Apply +1VDC to Pin 22 and see output at Pin 5 of -10.0VDC.

**6.2.4** Remove input from Pin 22 and apply to Pin 20 and see -1VDC out.

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

## 7. NOTES

## 8. Oscilloscope Verification Examples:

**Fig. 1**

**Fig. 2**