g GE Industrial Systems	**Functional Testing Specification**
Renewal Services ***Louisville, KY***	**LOU-GED-IC3600TPSA**

Test Procedure for a IC3600TPSA1 Single Phase Power Supply

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

REV.	DESCRIPTION	SIGNATURE	REV. DATE
A	Initial release	Dan Laemmle	9/13//02
B	Added drawing in section 7	C. Wade	7/5/2013
C			

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DATE	**DATE**	**DATE**	**DATE**
9/13/02	9/18/2009		09/16/02

Functional test procedure for IC3600TPSA1

1. SCOPE

1.1 This is a functional testing procedure for a IC3600TPSA1.

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.
2.1.1 IC3600TPSA1 Documentation Folder

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	H033788	Test Fixture
1	Oscilloscope	Tektronix 2215 or equiv.
1	DVM	Fluke 85 or equiv.

6. TESTING PROCESS

6.1 Setup

6.1.1 Replace TPSA Test card in fixture with UUT. Leave other cards in fixture.

6.1.2 Set switches on fixture as follows: SW1- open, SW2- POS1, SW3- open, SW4- RH1 POT, SW5- open, SW6- open, SW7- open, SW8- closed. Set variable transformer to 100%. Other pots don't matter.

6.2 Testing Procedure

6.2.1 Switch on fixture and connect DVM com to Pin 1 jack (black) and pos to –12v jack (red). Adjust R45 on card for –12.0v. Pot should be adjustable above and below –12v and remain stable at –12.0 v. Check at –16v and +16v jacks (blue) for approx –17.5v and +17.5v. These are unregulated raw DC.

6.2.2 With scope check for approx. 15Khz 10v p-p square wave oscillator output at Pin 37 on card.

6.2.3 Check bias output at Pin 3 on card with DVM for approx. –1.5vdc. Connect a clip jumper from Pin 11 to Pin 13 on card. Pin 3 should go to approx. 1.8vdc.

6.2.4 Switch off fixture and remove card. With ohmmeter check for 2.7 ohms between Pins 31 and 49 and Pins 39 and 41.

6.3 ***TEST COMPLETE ***

7. NOTES