Test Procedure for the NCP1337 Adapter Evaluation Board

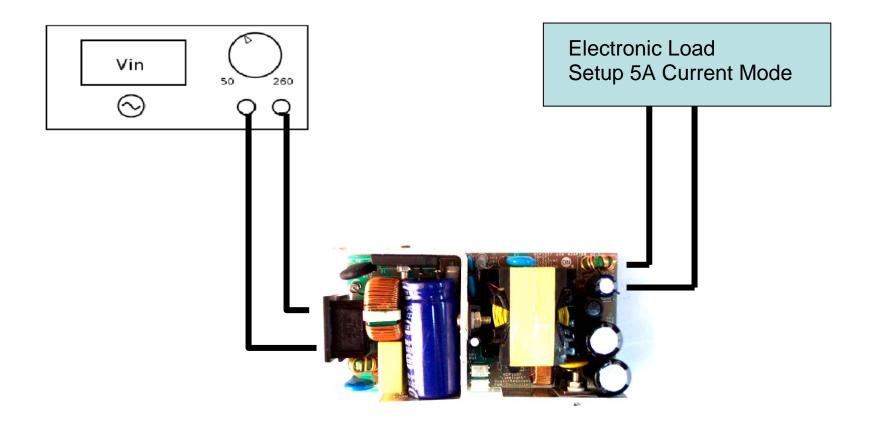


Figure 1 - Test Setup

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Table of Required Equipment

| AC Power Supply, 85-265Vac 1A | | | | |
|-------------------------------|--|--|--|--|
| YOKOGAWA Power Meter WT210 | | | | |
| Multimeter | | | | |
| Electronic Load | | | | |

Test Procedure:

- 1. Connect the test setup as showed above in Figure 1.
- 2. Apply an input voltage, $85V_{ac} < V_{in} < 265V_{ac}$, 50Hz or 60Hz
- 3. Measure V_{out} and Efficiency to compare with the table of desired results.

Desired Results

| | Measurements | Conditions | Results | Comments |
|---|--|----------------------------------|---------------------------|--|
| 1 | Standby input power at high line | $V_{in} = 230 V_{ac}$ | $P_{in} < 0.3W$ | Output no load |
| | | $I_{out} = 0A$ | | |
| 2 | Efficiency and V _{out} at high line and full load | $V_{in} = 230 V_{ac}$ | Efficiency > 88% | Efficiency = $(P_{out}/P_{in})*100$ |
| | | $I_{out} = 5A$ | $V_{out} = 12V \pm 5\%$ | |
| 3 | Efficiency and V _{out} at low line and full load | | | Efficiency = $(P_{out}/P_{in})*100$ |
| | | $I_{out} = 5A$ | $V_{out} = 12V \pm 5\%$ | |
| 4 | Brown out: Turn off level | $I_{out} = 5A$ | $V_{in} = 65-75 V_{ac}$ | |
| 5 | Brown out: Turn on level | $I_{out} = 5A$ | $V_{in} = 75-85 \ V_{ac}$ | |
| 6 | Overpower Protection at high line | $V_{in} = 230 V_{ac}$ | $I_{out} < 7A_{max}$ | Power come into auto restart mode |
| 7 | Output over voltage protection at high line | $V_{in} = 2\overline{30} V_{ac}$ | Power latch off | Short circuit of opto-coupler U1 pin1 to |
| | | | | Pin2 |

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