Description:

This procedure is intended for Power measurement of LED Drivers for use with Unmetered supplies (UMSUG).

Test specification:

"Unmetered Supplies Operational Information" – Version 13 Date: 07/11/2013

Test Procedure:

Steps.

Setup:

1. Obtain 5 samples of the product under test.
2. Photograph all samples.
3. Check equipment calibration dates are valid before proceeding. Refer to asset label.
4. Connect load to sample #1.
5. Connect sample #1 to AC source & Power Meter.
6. Take photographs of equipment setup
7. Attach photographs to UMS charge code form

Procedure:

8. Set input Voltage to 230V on the AC Source.
9. Apply AC source output and wait till sample has stabilised (5 minutes minimum)
10. Measure the following parameters:

Input Current
Input Power
VA
P.F.
Output Voltage
Output Current

Note. Only Power and VA are required for submission. The other parameters are for internal reference.

11. Record readings to UMS Charge Code Form

Repeat procedure for alternate input voltages:

12. Change AC source output Voltage to 220V – then **Repeat Steps 8 to 10**
13. Change AC source output Voltage to 210V – then **Repeat Steps 8 to 10**
14. Change AC source output Voltage to 240V – then **Repeat Steps 8 to 10**
15. Change AC source output Voltage to 250V – then **Repeat Steps 8 to 10**

Repeat procedure for Sample #2 through to #5:

16. Disconnect Sample #1
17. Repeat Steps 3 through to 15 for Samples #2, #3. #4 and #5

Record all data:

18. Check all Readings are recorded in UMS charge code form
19. Save UMS charge code form to the relevant project number
20. Fill in the charge code tab of the UMS charge code Form. Using the "Unmetered Supplies Operational Document" as reference.

21. Submit completed UMS charge code form to UMSUG. This must also include Calibration Certificates of the Test Equipment used (DGP-00006). Note that UMSUG have submission cut off dates.

Unmetered Supplies Operational Document:

http://www.elexon.co.uk/wp-content/uploads/2013/11/operational_information_document_v13.0_cgi.pdf

UMS Charge code form:

http://www.elexon.co.uk/wp-content/uploads/2012/03/Template-Standard-Charge-Code-and-Test-Data1.xlsx