

Measurement Report

FCC ID:N96-U1-1HOUVW

This report concerns (check one) : Original Grant Class II Change

Issued Date : Aug. 31, 2004
Project No. : 04E0504
Equipment : ELECTRONIC BALLAST
Model No. : U1-1/HOUVW
Applicant : SUNPARK ELECTRONICS CORP.
6F-2, No.135, Sec.4, Pa-Teh Rd.,
Taipei, Taiwan, R.O.C.

Tested by :

Neutron Engineering Inc. EMC Laboratory
FCC Registration Number : 95335

Date of Test :

Aug. 18, 2004 ~ Aug. 26, 2004

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Declaration

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1. General Information**1.1 Applicant**

Name SUNPARK ELECTRONICS CORP.
Address 6F-2, No.135, Sec.4, Pa-Teh Rd., Taipei, Taiwan, R.O.C.

1.2 Manufacturer

Name N/A
Address N/A

1.3 Equipment Under Tested

Name: ELECTRONIC BALLAST
Trade Name: SUNPARK
Model No.: U1-1/HOUVW

1.4 OEM Brand/Model (if applicable)

OEM Brand(s)/Model(s) except the basic model in sub-clause 1.3 is(are) the follow(s):

OEM Brand: ICP
Model No.: U1-1/HOUVW

1.5 Product Descriptions(Application/Features/Specification)

ISM Equipment Category: ELECTRONIC BALLAST
Nominal Operating Frequency: 46 +/- 1 KHz
Electrical Power: 120V-230V AC input
Power Cord: non-shielded type wire
More details of EUT technical specification, please refer to the User's Manual.

1.6 Products Covered (if applicable)

The sample tested including the following sub-system/module/accessory :

| Sub-system/ Module/ Accessory | Model/Type No. | Int. Inst./ Ext. Cont. |
|-------------------------------|----------------|------------------------|
| N/A | N/A | N/A |

1.7 Model Difference (Series, Versions, if any)

Except the basic model no. (model designation of the sample tested in this test report),
additional model no. covered is(are) :

N/A

1.8 EUT Modifications (if applicable)

Please refer to the Attachment – **A**.

1.9 Photos of EUT

Please refer to the Attachment – **C**.

2. RFI Emissions Measurement

2.1 Test Facility

The test facilities used to collect the test data in this report located at No.132-1, Lane 329, Sec. 2, Palain Road, Shijr City, Taipei, Taiwan. A description of this test facilities is already on file with the FCC as registration number of 95335.

2.2 Standard Compliance

The test Standard contained in this report relate only to the item(s) listed below :
FCC Part 18 , Section 18.305(C) and 18.307(C) , Consumer Equipment Limits

2.3 Test Methodology

Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (1992) / MP-5 (1986).

Radiated testing was performed at an antenna to EUT distance 1 meter by loop antenna used.

Test procedures according to the technical standards of :

FCC Rules Part 18, Subpart C.

2.4 Deviations from Standard Test Method

FCC Part 18, Section 18.305(b) Radiated Emission Limits ; "Any Non-ISM frequency" is adopted

2.5 Sample(s) Tested

The representative sample tested in this reports is(are): U1-1/HOUVW

Test results in this test report relate only to the sample(s) tested.

2.6 Measurement Instruments

Valid measurement instruments used in this report refer to **Table-1** enclosed.

2.7 Environmental Condition

Temperature 26 °C

Relative Humidity 60 %

2.8 Tested System Set-Up/Configuration Details

The system was configured for testing in a typical fashion (as a user would normally use) or in-accordance with the operating configuration specified in the user's manual. A Block Diagram(please refer to the Diagram - 1) and Photos(please refer to the attachment - **B**) showing the set-up/configuration of system tested. In addition, **Table-2** and **Table-3** provide a detail of all equipment items and cables information used in the system tested.

Table -1 Measurement Instruments List

| Item | Instruments | Mfr/Brand | Model/Type No. | Serial No. | Calibrated Date | Next Cali. Date | Note |
|------|--------------------|-----------------|----------------|-------------|-----------------|-----------------|------|
| 1 | LISN | EMCO | 3825/2 | 9605-2539 | 2004-06-12 | 2005-06-11 | ✓ |
| 2 | LISN | Rolf Heine | NNB-2/16Z | 98083 | 2003-10-31 | 2004-10-30 | |
| 3 | LISN | Rolf Heine | NNB-2/16Z | 98053 | 2003-12-15 | 2004-12-14 | |
| 4 | 4L-V-LISN | Rolf Heine | NNB-4/63TL | 02/10040 | 2004-04-07 | 2005-04-06 | |
| 5 | LISN | EMCO | 4825/2 | 00028234 | 2003-10-01 | 2004-09-30 | |
| 6 | Pulse Limiter | Electro-Metrics | EM-7600 | 112644 | 2003-12-08 | 2004-12-07 | ✓ |
| 7 | 50Ω Terminator | N/A | N/A | N/A | 2004-05-08 | 2005-05-07 | ✓ |
| 8 | Test Cable | N/A | C01 | N/A | 2003-12-09 | 2004-12-08 | ✓ |
| 9 | Log-Bicon Antenna | MESS-ELEKTRONIK | VULB 9160 | 3058 | 2003-10-21 | 2004-10-20 | |
| 10 | Log-Bicon Antenna | MESS-ELEKTRONIK | VULB 9160 | 3115 | 2004-04-14 | 2005-04-13 | |
| 11 | Log-Bicon Antenna | MESS-ELEKTRONIK | VULB 9161 | 4022 | 2004-07-13 | 2005-07-12 | |
| 12 | Test Cable | N/A | 10M_OS01 | N/A | 2003-12-09 | 2004-12-08 | |
| 13 | Test Cable | N/A | OS01-1/-2 | N/A | 2003-12-09 | 2004-12-08 | |
| 14 | Test Cable | N/A | 10M_OS02 | N/A | 2003-12-09 | 2004-12-08 | |
| 15 | Test Cable | N/A | OS02-1/-2/-3 | N/A | 2003-12-09 | 2004-12-08 | |
| 16 | RF Switch | Anritsu | MP59B | M65982 | 2003-12-08 | 2005-12-07 | |
| 17 | Quasi-Peak Adapter | HP | 85650A | 2521A00844 | 2004-03-16 | 2005-03-15 | ✓ |
| 18 | RF Pre-Selector | HP | 85685A | 2648A00417 | 2004-03-16 | 2005-03-15 | ✓ |
| 19 | Spectrum Analyzer | HP | 85680B | 2634A03025 | 2004-01-09 | 2005-01-08 | ✓ |
| 20 | Spectrum Monitor | HP | 85662B | 2648A13616 | 2004-01-09 | 2005-01-08 | ✓ |
| 21 | Pre-Amplifier | Anritsu | MH648A | M09961 | 2003-12-08 | 2004-12-07 | |
| 22 | Spectrum Analyzer | ADVAN TEST | R3261C | 81720298 | 2004-08-12 | 2005-08-11 | |
| 23 | Test Receiver | R&S | ESH3 | 860156/018 | 2003-10-21 | 2004-10-21 | |
| 24 | Test Receiver | R&S | ESVP | 860687/009 | 2003-12-05 | 2004-12-04 | |
| 25 | Test Receiver | PMM | PMM 9000 | 4310J01002 | 2003-10-03 | 2004-10-02 | |
| 26 | Horn Antenna | EMCO | 3115 | 9605-4803 | 2004-05-28 | 2005-05-27 | |
| 27 | Test Receiver | R&S | ESMI | 843977/005 | 2004-01-12 | 2005-01-11 | |
| 28 | Absorbing Clamp | R&S | MDS-21 | 841077/011 | 2004-08-13 | 2005-08-12 | |
| 29 | Voltage Probe | R&S | ESH2-Z3 | 841.800/023 | 2004-08-25 | 2005-08-24 | |
| 30 | Signal Generator | HP | 8648A | 3426A01034 | 2002-10-11 | 2004-10-08 | |
| 31 | Antenna Mast | Chance Most | CMTB-1.5 | N/A | N/A | N/A | ✓ |
| 32 | Turn Table | Chance Most | CMTB-1.5 | N/A | N/A | N/A | ✓ |
| 33 | Loop Ant | R&S | HFH2-Z2 | 830749/020 | N/A | N/A | ✓ |

Remark :

(1)"✓" indicates the instrument used in Test Report.

(2)"N/A" denotes No Model No. / Serial No. and No Calibration specified.

Diagram – 1

Block diagram showing the configuration of system tested

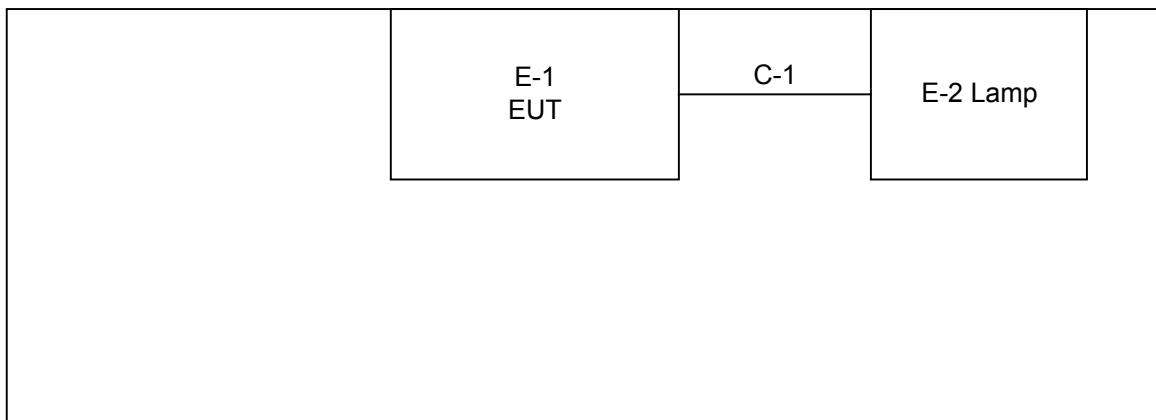


Table - 2 Equipments Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | FCC ID | Series No. | Note |
|------|--------------------|-----------|----------------|----------------|------------|------|
| E-1 | ELECTRONIC BALLAST | SUNPARK | U1-1/HOUVW | N96-U1-1/HOUVW | N/A | EUT |
| E-2 | Lamp | N/A | RGTS24HO | N/A | N/A | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Note:

- (1) Unless otherwise denoted as EUT in 『Remark』 column , device(s) used in tested system is a support equipment.
- (2) Unless otherwise marked as ✕ in 『Remark』 column, Neutron consigns the support equipment to the tested system.
- (3) The support equipment E-2 is a fluorescent lamp used as the load for EUT.

Table - 3 Information of Interface Cable

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| C-1 | NO | NO | 20cm | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) Unless otherwise marked as ✕ in 『Remark』 column, Neutron consigns the support equipment to the tested system.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.

2.9 Max.(Worst Case) RF Emission Evaluation

- (a) Both conducted and radiated testing were performed according to the procedures in ANSI C63.4 (1992) and the FCC Measurement Procedure MP-5 (1986).
- (b) The system was configured for testing in a typical fashion (as a customer would normally use it).The lamp was connected to EUT as a customer would normally use it as possible to comply with the Rules or Standards requirement.
- (c) To investigate the maximum EMI emission characteristics, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively and used to collect the included data.

Mode 1 Lamp type: RGTS24HO (42W)

Mode 2 Lamp type: RGTS20HO (35W)

Mode 3 Lamp type: RGTS16HO (29W)

The EUT system operated Mode1, mentioned above was found to be the worst case during the pre-scanning test.

This operation mode was used for final testing and collecting test data included in this report.

2.10 EUT Operation

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively and used to collect the included data.

3. Justification

3.1 Frequency Range of Measurement
 3.1.1 Power Line Conducted Emission
 150KHz-30MHz

3.1.2 Radiated Emission

| Frequency Band in which Device Operates (MHz) | Range of Frequency Measurements | |
|---|--|---|
| | Lowest Frequency | Highest Frequency |
| Below 1.705 | Lowest freq. generated In the device, but not lower than 9KHz | 30MHz |
| 1.705 to 30 | Lowest freq. generated In the device, but not lower than 9KHz | 400MHz |
| 30 to 500 | Lowest freq. generated In the device or 25MHz, whichever is lower. | Tenth harmonic or 1000MHz, whichever is higher. |
| 500 to 1000 | Lowest freq. generated In the device or 100MHz, whichever is lower. | Tenth harmonic |
| Above 1000 | Didtto | Tenth harmonic or highest detectable emission |

3.2 Limitations

3.2.1 Power Line Conducted Emission (Frequency Range 150KHz-30MHz)

| Frequency Range (MHz) | Non-consumer Equipment | | Frequency Range (MHz) | Consumer Equipment | |
|-----------------------|------------------------|------|-----------------------|--------------------|------|
| | dBuV | uV | | dBuV | uV |
| 0.45 - 1.60 | 60.00 | 1000 | 0.45 - 2.51 | 48 | 250 |
| 1.60 - 30.0 | 69.50 | 3000 | 2.51 - 3.00 | 69.5 | 3000 |
| | | | 3.00 - 30.0 | 48 | 250 |

Notes : The tighter limit applies at the band edges.

3.2.2 Radiated Emission Limits (Frequency Range 30MHz-1000MHz)

| Frequency (MHz) | F.S Limitiation at 30m dist | | F.S Limitation at 1m dist | | Remark |
|-----------------|-----------------------------|----------|---------------------------|----------|------------------------|
| | (uV/m) | (dBuV/m) | (uV/m) | (dBuV/m) | |
| 30 - 88 | 30 | 29.54 | 900 | 59.08 | Non-consumer Equipment |
| 88 - 216 | 50 | 33.98 | 1500 | 63.52 | |
| 216 - 1000 | 70 | 36.90 | 2100 | 66.44 | |
| 30 - 88 | 10 | 20.00 | 300 | 49.54 | Consumer Equipment |
| 88 - 216 | 15 | 23.52 | 450 | 53.06 | |
| 216 - 1000 | 20 | 26.02 | 600 | 55.56 | |

Notes :

- (1). The tighter limit shall apply at the boundary between two frequency range.
- (2). Limitation expressed in dBuV/m is calculated by $20\log$ Emission Level (uV/m).
- (3). If measurement is made at 1m distance, then F.S Limitation at 1m distance is adjusted by using the formula of $L_{d1} = L_{d2} * (d_2/d_1)$.
 Example:
 F.S Limit at 30m distance is 30uV/m , then F.S Limitation at 1m distance is adjusted as
 $L_{d1} = L_1 = 30uV/m * (30/1) = 900 uV/m$

(4). Section 15.209 radiated emission limits and general requirement of FCC Part 15, Subpart B is adopted as the radiated emission field strength limitation for frequency range between 9KHz-30MHz. It is a deviation from standard justification specified in FCC Part-18 Section 18.305 (C).

FCC Part 18, Section 18.305(b) Radiated Emission Limits ; "Any Non-ISM frequency"

| Equipment | Operating Frequency | RF Power generated by equipment (watts) | Field strength limitation (uV/m) | Distance (meters) |
|-------------------|------------------------------|---|----------------------------------|-------------------|
| Medical diathermy | Any ISM frequency | Any | 25 | 300 |
| | Any Non-ISM frequency | Any | 15 | 300 |

Notes :

- (1). The tighter limit shall apply at the boundary between two frequency range.
- (2). Limitation expressed in dBuV/m is calculated by $20\log$ Emission Level (uV/m).
- (3). If measurement is made at 1m distance, then F.S Limitation at 3m distance is adjusted by using the formula of $L_{d1} = L_{d2} * (d_2/d_1)^2$.

Example:

F.S Limit at 300m distance is 15uV/m , then F.S Limitation at 3m distance is adjusted as $L_{d1} = L_1 = 15uV/m * (100)^2 = 10000 * 15 uV/m$

3.3 Measurement Justification

3.3.1 Conducted Emission

The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and these signals are then Quasi Peak detector mode re-measured.

Data of **Table - 4.** lists the significant emission frequencies, measured levels, limits and safe margins. All readings are Peak Mode measured unless otherwise stated as QP in column of "Remark".

If the Peak Mode measured value lower than both QP Mode Limit, EUT shall be deemed to compliance with both QP Limits and then no additional QP Mode measurement performed.

3.3.2 Radiated Emission

The initial step in collecting radiated emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.

Data of **Table - 5.** lists the significant emission frequencies, measured levels, limits and safe margins. All readings are Peak Mode measured unless otherwise stated as QP in column of "Remark".

If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

3.4 Measurement Data

Table - 4. Conducted Emission Data

Table - 5. Radiated Emission Data

Table 4 Conducted Emission Data

Special Notes : (EUT Operation Mode or Test Configuration Mode, if applicable)

Judgment : Passed by -3.81 dB at 7.73 MHz, QP Mode, Consumer Equipment , Neutral

| Freq. (MHz) | Terminal L/N | Measured | Limits | | Safe Margins | Remark C |
|----------------|-----------------|----------|--------|------|--------------|-------------|
| | | (dBuV) | (dBuV) | (uV) | (dBuV) | |
| 0.45 | Line | 30.24 | 48.00 | 250 | -17.76 | (QP) |
| 0.70 | Line | 35.87 | 48.00 | 250 | -12.13 | (QP) |
| 1.81 | Line | 40.43 | 48.00 | 250 | -7.57 | |
| 5.16 | Line | 42.30 | 48.00 | 250 | -5.70 | (QP) |
| 7.73 | Line | 44.19 | 48.00 | 250 | -3.81 | |
| 19.22 | Line | 42.09 | 48.00 | 250 | -5.91 | |
| 0.45 | Neutral | 35.20 | 48.00 | 250 | -12.80 | (QP) |
| 0.69 | Neutral | 34.10 | 48.00 | 250 | -13.90 | (QP) |
| 1.19 | Neutral | 40.49 | 48.00 | 250 | -7.51 | |
| 5.04 | Neutral | 45.10 | 48.00 | 250 | -2.90 | (QP) |
| 7.63 | Neutral | 43.75 | 48.00 | 250 | -4.25 | |
| 18.90 | Neutral | 41.52 | 48.00 | 250 | -6.48 | |

Remark :

- (1) Reading was measured by using are Quasi-Peak Mode with Detector BW=9KHz ; SPA setting in RBW=10KHz,VBW =10KHz, SWP Time = 0.3 sec./ MHz .
- (2) All readings are QP Mode value unless otherwise stated Peak in column of 『 Note 』 .
- (3) Measuring frequency range from 450KHz to 30MHz .
- (4) Remark C denotes the Consumer Equipment limitation used for judgment.
- (5) Remark NC denotes the Non-Consumer Equipment limitation used for judgment.

Table 5 Radiated Emission Data

Special Notes : (EUT Operation Mode or Test Configuration Mode, if applicable)

FCC Part 18, Section 18.305(b) Radiated Emission Limits; "Any Non-ISM frequency"

"Part 18 of the FCC Rules and MP-5 do not specify a minimum distance for radiated emission testing. Measurements were made at a distance of 1m, because of the low field strength levels of the higher harmonics. Measurement system sensitivity limitations require the measurements to be made at 3m."

Judgment : Passed by -36.28 dB at 46.70 KHz

| Freq. (KHz) | Receiver Reading in dBuV/m | Factor (dB) Cable loss | Field Strength Limit (uV/m) | Required Measurement Distance(m) | Limitation Converted 3 m dist. (dBuV/m) | Over Limit |
|----------------|----------------------------------|------------------------------|--------------------------------------|--|--|---------------|
| 46.70 | 47.12 | 20.10 | 15.00 | 300.00 | 103.50 | -36.28 |
| 83.00 | 21.05 | 20.10 | 15.00 | 300.00 | 103.50 | -62.35 |
| 143.20 | 27.28 | 20.10 | 15.00 | 300.00 | 103.50 | -56.12 |
| 205.20 | ** | 20.10 | 15.00 | 300.00 | 103.50 | ** |
| 239.30 | 20.41 | 20.20 | 15.00 | 300.00 | 103.50 | -62.89 |
| 289.70 | ** | 20.20 | 15.00 | 300.00 | 103.50 | ** |
| 332.90 | 13.11 | 20.20 | 15.00 | 300.00 | 103.50 | -70.19 |
| 373.30 | ** | 20.30 | 15.00 | 300.00 | 103.50 | ** |
| 428.10 | ** | 20.30 | 15.00 | 300.00 | 103.50 | ** |
| 462.10 | ** | 20.30 | 15.00 | 300.00 | 103.50 | ** |

Remark :

- (1) All receiver readings (the measured field strength levels) are measured from loop antenna directly.
- (2) The emission limits shown in the above table are base on measurements employing a quasi-peak detector except for the frequency bands 9-90 KHz, 110-490 KHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.
- (3) The tighter limit applies at the band edges.
- (4) **Remark:** " ** " means that the noise emission is too low to detect by Test Receiver.

Attachment

Table Contents

- A. EUT Modification Description
- B. EUT Test Photos
- C. EUT Photos

Attachment - A.

EUT Modification Description

No any modification required for the EUT to comply with the standards.

Attachment - B.

EUT Test Photos

- 1. Conducted Measurement Photos**
- 2. Radiated Measurement Photos**

Attachment – C

EUT Photos

- 1. Photo # 1 Front View**
- 2. Photo # 2 Unit Partially Disassembled**
- 3. Photo # 3 Unit Partially Disassembled**

Attachment – D

User's Manual

Attachment - E

Product Labeling