



EMF TEST REPORT

For

Led beauty bed

Model: W9, W8, W6, W5, W4, W2, W1

Brand Name: Mary Queen

Report No.: ENC2008190GZ09E1

Date of Issue: Aug. 19, 2020

Prepared For

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TEST REPORT
EN 62233:2008

Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure

Report reference No. : ENC2008190GZ09E1

Tested by : Sam Liu

Review by (+ Signature). : Yemig

Approved by (+ signature) : Ray Zhou

Date of issue : Aug. 19, 2020

Contents : Total 6 pages



Testing laboratory

Name : East Notice Certification Service Co., Ltd.

Address : 1/F, Haohui Commercial Building, Zhuji Street, Dongpu Town, Tianhe District, Guangzhou City, China

Testing location : Same as above

Application

Name..... : Guangzhou Merican Optoelectronic Technology Co.,Ltd

Address : No.38, Gaoming Road, Renhe Town, Baiyun District, Guangzhou City, China

Manufacturer

Name..... : Guangzhou Merican Optoelectronic Technology Co.,Ltd

Address..... : No.38, Gaoming Road, Renhe Town, Baiyun District, Guangzhou City, China

Test specification

Standard : EN 62233:2008

Test procedure..... : ENC-CSTC

Measurement uncertainty : N/A

Test item

Description : Led beauty bed

Brand name : Mary Queen

Model and/or type reference : W6

Series models : W9, W8, W6, W5, W4, W2, W1

Rating(s) : 220-240V~, 50/60Hz, 3500W

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Test Report Form/blank test report

Test Report Form No. : ENC62233-A1

TRF originator. : ENC

Testing

Date of receipt of test item : Aug. 10, 2020

Date(s) of performance of test : Aug. 10, 2020–Aug. 19, 2020

Test case verdicts

Test case does not apply to the test object..... : N/A

Test item does meet the requirement : P(ass)

Test item does not meet the requirement..... : F(ail)

General remarks

This test report shall not be reproduced except in full without the written approval of the testing laboratory.

The test results presented in this report relate only to the item tested.

Throughout this report a comma is used as the decimal separator.

When determining the test result, measurement uncertainty has been considered.

Note:

This report shall not be altered, increase and deleted.

The results relate only to the items tested.

This report shall not be published as advertisement without the approval of ENC.

This report shall not be copied partly without the written approval of ENC.

Should any objections to the test reports occurred, should submit it to the company within ten days since the issuing of the report, Fail to accept.

Special description:

1. All tests are basic on model W6.
2. All models have similar structure as W6, except for the different appearance and power.
3. Specified maximum ambient temperature is 40°C.

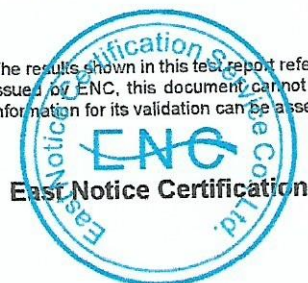
Summary of testing

All tests were found satisfactory in accordance with EN 62233:2008.

Marking on the appliance:

Led beauty bed	
Model: W6	
Power: 220-240V~, 50/60Hz, 3500W	
Guangzhou Merican Optoelectronic Technology Co.,Ltd	
Made in China	

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EN 62233:2008			
Clause	Requirement - Test	Result	Verdict
5	MEASURING METHODS		P
5.1	Electric fields		P
	The measurement method is under consideration. If appliances, with their internal transformer or electronic circuit, are working at voltage lower than 1 000 V, they are deemed to comply without testing.	Compliant without testing	P
5.2	Frequency range		P
	Frequency range considered	10Hz – 400kHz	P
5.3	Measuring distances, positions and operating mode		P
	Operating condition	Continuously.	--
	Measuring distance(s)	0 cm and 10 cm	--
	Measuring position(s)	Top of the EUT	--
5.4	Magnetic field sensor		P
	Measurement values of flux density are averaged over an area of 100 cm ² in each direction. The reference sensor consists of three mutually perpendicular concentric coils with a measuring area of 100 cm ² ±5 cm ² to provide isotropic sensitivity. The outside diameter of the reference sensor shall not exceed 13 cm. For the determination of coupling factors, as specified in Annex C, an isotropic sensor having a measuring area of 3±0.3 cm ² is used. NOTE 1 It is permissible to use a single direction sensor (not isotropic) in combination with an appropriate summation method. NOTE 2 The final value of the magnetic flux density is the vector addition of the values measured in each direction. This ensures that the measured value is independent of the direction of the magnetic field vector.		P
5.5	Measuring procedures for magnetic fields		P
	Measuring method applied	5.5.2 Time domain method	--
	Instruments used during the measurements	ELT-400 2304/15	--
	Background noise level	< 1% of limit	P
5.5.2	Time domain method		P

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EN 62233:2008

Clause	Requirement - Test	Result	Verdict
<p>Note: An initial check of the ambient magnetic field was conducted to verify a standardized test environment. A screening test was made to identify the "hot spot" of EUT (where the EUT had its peak magnetic radiation level). The screening was only performed at faces of the EUT specified to be applicable in the standard, at the measuring distance specified.</p> <p>A final measurement was then performed at the "hot spot", and the measured level recorded in this report as a percentage of the reference level (See Annex B).</p> <p>If the measured level was found to be higher than the reference level, the measured level was multiplied by a coupling factor specified in the standard and recorded in this report as a percentage of the reference level (limit).</p> <p>If either of the two values were below the reference level, the product was considered compliant with the standard.</p>			
	Measured level	0.7 % of limit @ measuring distance 10 cm 2.0 % of limit @ measuring distance 0 cm	P
	Position of worst measured level	No significant worst position found	-
	Calculated level	Not required, measured level is below reference level	N
	Spectrum analysis	No spectrum available	N
5.5.3	Line spectrum evaluation method	Method not used	N
5.5.4	Alternative test method	Method not used	N
5.6	MEASUREMENT UNCERTAINTY		P
	The maximum overall measurement uncertainty shall not exceed 25 % of the limit. When the result has to be compared with a limit, the measurement uncertainty shall be implemented as follows: – to establish whether an appliance produces only fields below the limit, the measurement uncertainty has to be added to the result and the sum has to be compared with the limit; NOTE This applies e.g. for measurements carried out by the manufacturer. – to establish whether an appliance produces fields over the limit, the measurement uncertainty has to be subtracted from the result and the difference has to be compared with the limit. NOTE This applies e.g. for measurements carried out by authorities for market surveillance purposes.	Magnetic fields: 12% at the reference value	P
5.7	Measured maximum value, weighted with the coupling factor if applicable	16,09 %	P

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EN 62233:2008

Clause	Requirement - Test	Result	Verdict
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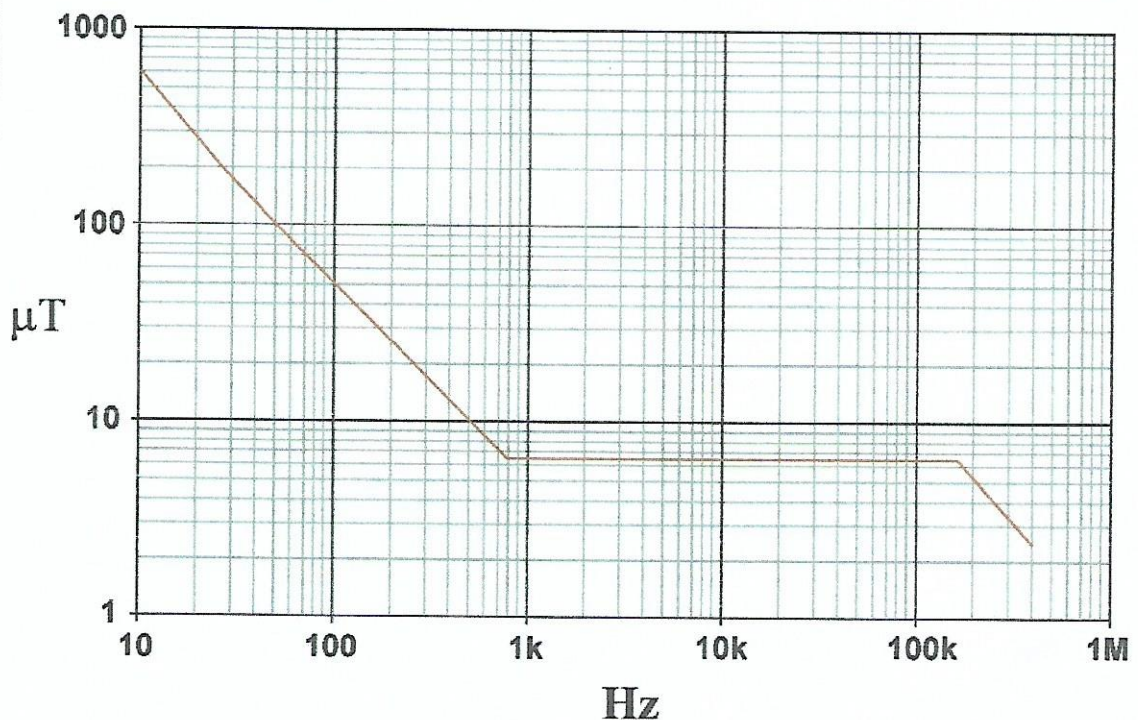
ANNEX B RECOMMENDED VALUES

EN 62233 Table B.2 – Reference levels for magnetic B-fields

Frequency	B-Field
0Hz – 1Hz	4×10^4 [μ T]
1Hz – 8Hz	$4 \times 10^4 / f^2$ [μ T]
8Hz – 25Hz	$5000 / f$ [μ T]
0.025kHz – 0.8kHz	$5 / f$ [μ T]
0.8kHz – 3kHz	6.25 [μ T]
3kHz – 150kHz	6.25 [μ T]
0.15MHz – 1MHz	$0.92 / f$ [μ T]

Note: f is as indicated in the frequency range column

Diagram of the reference levels for magnetic fields



Note: Reference levels for range: 10Hz to 400kHz

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APPENDIX A
PHOTOS OF PRODUCT



----END OF REPORT----

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