



Test Report

No.: SHHG1211042519BC

Date: JAN.31,2013

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GOLDEN MOTOR TECHNOLOGY CO., LTD
BLOCK 8, MODERN INDUSTRIAL CENTER, 801 CHANGWU MIDDLE ROAD, CHANGZHOU,
JIANGSU, CHINA 213164

The following sample(s) was/were submitted and identified by the client as:

Sample Description : E-BIKE
Style No. : FEB-600
Sample Receiving Date : NOV.26,2012
Testing Period : NOV.26,2012 TO JAN.31,2013
Test Performed : SELECTED TEST(S) AS REQUESTED BY APPLICANT
Test Requested : EN 15194:2009+A1:2011 CYCLES - ELECTRICALLY
POWER ASSISTED CYCLES - EPAC BICYCLES-
CLAUSE 4.2.5.1 & 4.2.5.2 EMC TEST FOR EPAC
Test Result(s) : FOR FURTHER DETAILS, PLEASE REFER TO THE
FOLLOWING PAGE(S)
Conclusion : THE SUBMITTED SAMPLE MET THE TEST
REQUIREMENT.

Signed for and on behalf of
SGS-CSTC Ltd.

Vincent Feng
Technical Manager

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Test Conducted:**EN 15194:2009+A1:2011 cycles - electrically power assisted cycles - EPAC bicycles- clause****4.2.5.1 & 4.2.5.2 EMC test for EPAC**

1. Number of Test Specimen: 1 set of fully assembled EPAC
2. Test Result:

1. Radiated Emission Test Results

Test Requirement: EN 15194: 2009+A1:2011
Test Method: CISPR 12: 2009
Test Date: Jan 16, 2013
Frequency Range: 30MHz to 1GHz
Measurement Distance: 3m
Class: N/A
Limit: According to EN 15194: 2009+A1:2011
Detector: Peak and Average for pre-scan (120kHz resolution bandwidth, 5ms dwell time)
Quasi-Peak if maximized peak within 6dB of limit, Average (1s dwell time) if maximized average(5ms dwell time) within 6dB of limit

E.U.T. Operation

Operating Environment:

Temperature:22° C Humidity:50% Atmospheric Pressure: 1002mbar

EUT Operation: The EUT is in representative work mode.

Measurement Data

An initial pre-scan was performed in peak detection mode and average (5ms dwell time) detection mode. Quasi-Peak was performed at the frequencies with maximized peak emission were detected and Average(1s dwell time) was performed at the frequencies with maximized average(5ms dwell time) emission were detected.

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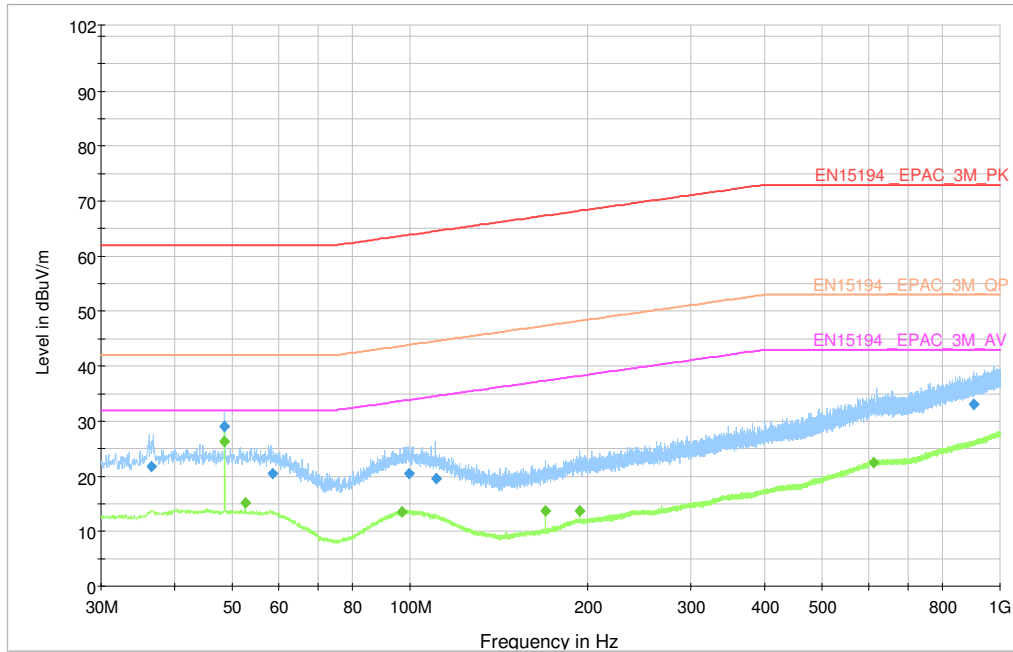
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Horizontal:



Average Detector				Quasi-peak Detector			
Frequency (MHz)	Receiver AV Level (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Frequency (MHz)	Receiver QP Level (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)
48.550	26.3	32.0	5.7	36.550	21.7	42.0	20.3
52.600	15.2	32.0	16.8	48.550	29.1	42.0	12.9
97.150	13.5	33.7	20.2	58.600	20.4	42.0	21.6
170.000	13.8	37.4	23.6	99.700	20.5	43.9	23.4
194.300	13.7	38.3	24.6	110.950	19.7	44.6	24.9
610.400	22.4	43.0	20.6	903.600	33.1	53.0	19.9

According to EN 15194, the measurement values expressed in dB (μV/m) shall be 2dB below the reference limit for the EUT submitted for testing. The limits in this table have been subtracted 2dB.

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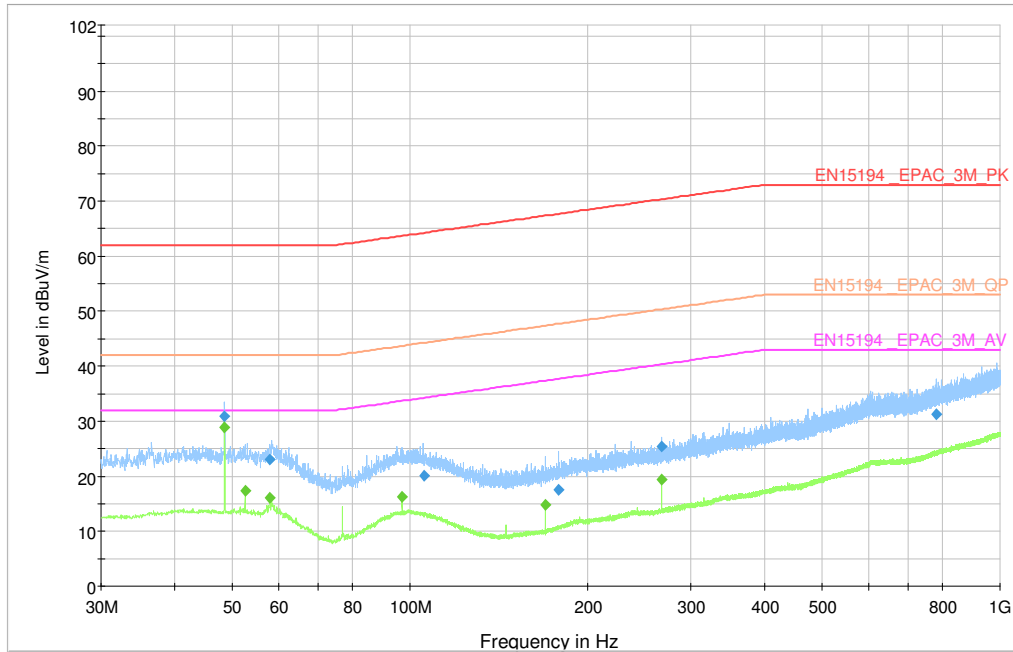


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Vertical:



Average Detector				Quasi-peak Detector			
Frequency (MHz)	Receiver AV Level (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)	Frequency (MHz)	Receiver QP Level (dBμV/m)	Limit (dBμV/m)	Margin (dBμV/m)
48.550	29.0	32.0	3.0	48.550	30.9	42.0	11.1
52.600	17.3	32.0	14.7	58.000	23.0	42.0	19.0
58.000	16.1	32.0	15.9	105.700	20.1	44.3	24.2
97.150	16.3	33.7	17.4	178.750	17.6	47.7	30.1
170.000	14.7	37.4	22.7	267.150	25.3	50.3	25.0
267.100	19.4	40.3	20.9	780.300	31.3	53.0	21.7

According to EN 15194, the measurement values expressed in dB (μV/m) shall be 2dB below the reference limit for the EUT submitted for testing. The limits in this table have been subtracted 2dB.

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2. Immunity Test Results

ESD

Test Requirement: EN 15194: 2009+A1:2011
 Test Method: EN 61000-4-2: 2009
 Test Date: Jan 16, 2013
 Discharge Impedance: 330Ω/150pF
 Discharge Voltage: Air Discharge: ±8kV
 Contact Discharge: ±4kV
 VCP: ±4kV
 Polarity: Positive & Negative
 Number of Discharge: Minimum 10 times at each test point for Contact and VCP Discharge;
 Minimum 10 times at each test point for Air Discharge
 Discharge Mode: Single Discharge
 Discharge Period: 1 second minimum
 Criteria: Refer to EN 61000-4-2: 2009

E.U.T. Operation

Operating Environment:
 Temperature: 21 ° C Humidity: 52% Atmospheric Pressure: 1003mbar
 EUT Operation: The EUT is in representative work mode.

Direct Application Test Results

Observations: Test Point:
 1. All insulated enclosure & seams around EUT.
 2. All touchable metal material of EUT.

Direct Application			Test Results	
Discharge Level(kV)	Polarity	Test Points	Contact Discharge	Air Discharge
8	+/-	1	N/A	A
4	+/-	2	A	N/A

Indirect Application Test Results

Observations: Test Point: 1. All sides.

Direct Application			Test Results
Discharge Level(kV)	Polarity	Test Points	Vertical Coupling
4	+/-	1	A

Result: Pass

A: No degradation in the performance of the EUT was observed.

N/A: Not applicable

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Radiated Immunity

Test Requirement: EN 15194: 2009+A1:2011
Test Method: ISO 11451-2:2001
Test Date: Jan 16, 2013
Frequency Range: 20MHz to 2GHz
Test Level: 30V/m on enclosure
Modulation: 80%, 1kHz Amplitude Modulation
Criteria: Refer to ISO 11451-2:2001

E.U.T. Operation

Operating Environment:
Temperature: 21° C Humidity: 50% Atmospheric Pressure: 1003mbar
EUT Operation: The EUT is in representative work mode.

Test Results: Pass

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Photographs Radiated Emission Test Setup



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ESD Test Setup



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Radiated Immunity Test Setup



20MHz to 1GHz

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1GHz to 2GHz

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ESA list:

Object/ Part No.	Manufacturer/ Trademark	Type/Model	Technical Data
Battery	Jiangsu Litian Newenergy Technology Co ., Ltd	LFP 48V/10AH	48V/10AH
Motor	Golden Motor Technology Co ., Ltd	Magic Pie 3	48V250W
Controller	Meixin Electronics Co ., Ltd	Magic Controller	48V
Power Assist Sensor	Meixin Electronics Co ., Ltd	PAS	5V Hall Sensor
Light	Wuxing Bicycle Co ., Ltd	LED Light	48V5W
Wiring	Higo Electronic Technology (shanghai) Co ., Ltd	Water-proof integral wiring	Water-proof

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Sample Photo:



End of Report

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