Declaration of Conformity We, Manufacturer

ZIPPY TECHNOLOGY CORP. 10F,No.50,MIN CHYUAN RD. SHIN-TIEN, TAIPEI HSIEN TAIWAN, R.O.C.

declare that the product (description of the apparatus, system, installation to which it refers)

SWITCHING POWER SUPPLY DM1U2-5650V4V

is in conformity with (reference to the specification under which conformity is declared) in accordance with 2014/30/EU-EMC Directive

EN 55032 : 2012/AC:2013 Information technology equipment -Radio disturbance characteristics -Limits and methods of measurement

EN 55024 : 2010 Information technology equipment -Immunity characteristics -Limits and methods of measurement

EN 61000-4-2 : 2009 Criteria B Electrostatic discharge requirements "ESD"

EN 61000-4-3 : 2006+A1:2008+A2:2010 Criteria A Radiated, radio frequency electromagnetic field

- EN 61000-4-4 : 2012 Criteria B Electrical fast transient requirements "EFT"
- ■EN 61000-4-5 : 2014 Criteria B Surge Immunity requirements
- EN 61000-4-6 : 2014 Criteria A Conducted Immunity

EN 61000-4-8 : 2010 Criteria A Power Frequency Magnetic Field Immunity

Checked by :	Karen	, Date :	SEP,12,2017	
_	(Karen Ma / Engineer)			
Approved by :	Jeff Huang	, Date :	SEP,12,2017	

(Jeff Huang / Director)

APPLICATION FOR CERTIFICATION ON Behalf Of ZIPPY TECHNOLOGY CORP. SWITCHING POWER SUPPLY

Model#: DM1U2-5650V4V

PREPARED FOR :

ZIPPY TECHNOLOGY CORP. 10F., No.50, MINQUAN RD., XINDIAN DIST., NEW TAIPEI CITY TAIWAN, R.O.C

Report By :

ZIPPY TECHNOLOGY CORP. 10F., No.50, MINQUAN RD., XINDIAN DIST., NEW TAIPEI CITY TAIWAN, R.O.C TEL : (02)2918-8512 FAX : (02)2913-4969

REPORT NO.: 17091211

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1. Test Report Certification

(B) Serial No	:	N/Δ
(A) Model No.	:	DM1U2-5650V4V
EUT Description	•	Switching Power Supply
Manufacturer	:	ZIPPY TECHNOLOGY CORP.
Applicant	:	ZIPPY TECHNOLOGY CORP.

(B) Serial No. : N/A(C) Power Supply : $-40VDC \sim -72VDC$

MEASUREMENT PROCEDURE USED :

EN 55024 RULES EN 55032 RULES

THE DEVICE DESCRIBED ABOVE WAS TESTED BY ZIPPY SHIN JIUH CORP. TO DETERMINE THE SEVERITY LEVELS THE DEVICE CAN ENDURE AND ITS PERFORMANCE CRITERION. THE MEASUREMENT RESULTS ARE CONTAINED IN THIS TEST REPORT AND ZIPPY SHIN JIUH CORP. IS ASSUMED FULL RESPONSIBILITY FOR THE ACCURACY AND COMPLETENESS OF THESE MEASUREMENT. ALSO, THIS REPORT SHOWS THAT THE EUT TO BE TECHNICALLY COMPLIANT WITH THE EN STANDARD.

2. General Information

2.1 Production Description

Description	:	Switching Power Supply
Model Number	:	DM1U2-5650V4V
Applicant	:	ZIPPY TECHNOLOGY CORP.
Address	:	10F., No.50, MINQUAN RD.,XINDIAN DIST., NEW TAIPEI CITY TAIWAN, R.O.C
FCC ID	:	N/A
Data Cable	:	N/A
PowerCord	:	Non-Shielded, detachable, 1.5m

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2.2 Tested System Details

The FCC IDs for all equipment, plus descriptions of all cables used in the tested system (including inserted cards, which have grants) are:

2.2.1 Resistor Load

Model Number	:	ELECTRONIC LOAD
Serial Number	:	N/A
Manufacturer	:	ZIPPY
Power	:	650W

2.3 Test Methodology

EMI Test:

Both conducted and radiated testing were performed according to the procedures in EN 55032 Radiated testing was performed at an antenna to EUT distance of 10 meters.

EMS Test: Performed according to procedures in EN 61000 series regulations.

2.4 Test Facility

ZIPPY TECHNOLOGY CORP. 10F., No.50, MINQUAN RD., XINDIAN DIST., NEW TAIPEI CITY TAIWAN, R.O.C

3. Electronic-Magnetic Interference Test

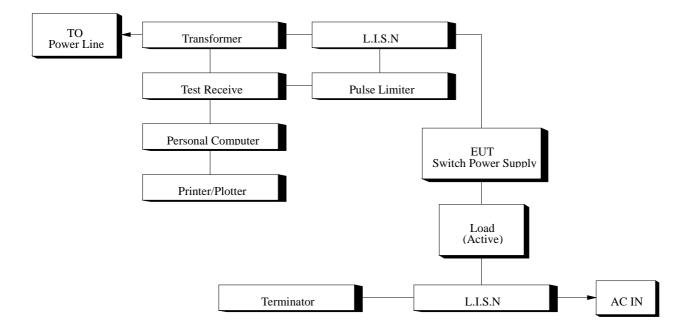
3.1 Conducted Power Line Test

3.1.1 TEST Equipment's

The following test equipment's are used during the conducted power line tests:

Item	Instrument	Manufacture	Type No:	Last Calibration
1	TEST RECEIVER	ROHDE & SCHWARZ	ESL	Mar.,2017
2		ROHDE & SCHWARZ	ENV4200	Apr.,2017
2 LISN	ROHDE & SCHWARZ	ENV216	Apr.,2017	
3	SHIELDE	N/A		

3.1.2 Block Diagram of Test Setup



Maximum RF Line Voltage dB(uV)						
Frequency	Cla	Class A				
MHz	QUASI-PEAK	AVERAGE				
0.15 - 0.50	79	66				
0.50 - 5.0	73	60				
5.0 - 30	73	60				

3.1.3 Conducted Powerline Emission Limit

Remarks : In the Above Table, the tighter limit applies at the band edges.

3.1.4 EUT Configuration on Measurement

The equipment's which is listed 3.2 are installed on Conducted Power Line Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.1.5 EUT Exercise Software

The EUT exercise program used during conducted testing was designed to exercise the EUT in a manner similar to a typical use. The exercise sequence is listed as below :

3.1.5.1 Setup the EUT and simulators as shown on 3.2.

3.1.5.2 Turn on the power of all equipment's.

3.1.6 Conducted Emission Data

The measurement range of conducted emission which is from 0.15 MHz to 30 MHz was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

Conducted Emission Data

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: <u>26°C</u>
TEST MODE	[:] DM1U2-5650V4V	HUMIDITY	: 65%

Frequency	Reading L	evel dBuV	Limites
MHz	Line 1	Line 2	DBuV
0.188	61.69	62.09	79.00
19.10	54.55	55.74	73.00
19.55	53.21	54.27	73.00

Remark : All readings are Quasi-Peak values.

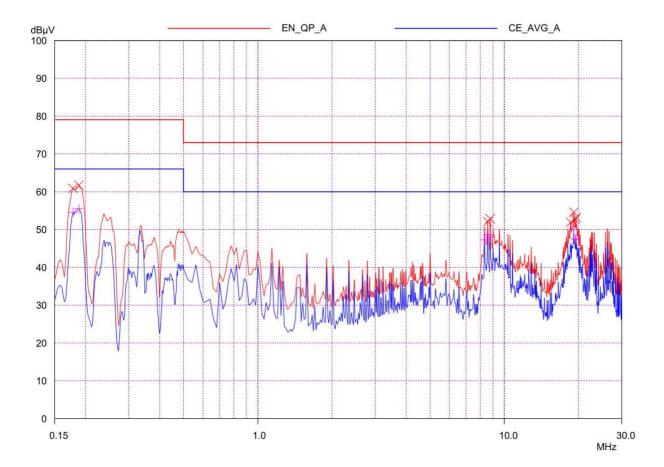
REPORT NO.: 17091211

ZIPPY EMC LAB

conduction test

EUT:	DM1U2-5650V4V SPS
Manuf:	ZIPPY TECH COLTD
Op Cond:	FULL LOAD
Operator:	
Test Spec:	EN 55032 Class A
Comment:	Load Condition (40 18 0.5 18 3)
	L48V

Scan Settings	(3 Ra —— Freque	anges) ancies ———				 Receiver Se 	ettinas —		
Start	Stop		Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500kH	z	2kHz	10kHz	QP+AV	50msec	Auto	OFF	60dB
500kHz	5MHz		20kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
5MHz	30MHz	z	50kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
Transducer	No.	Start	Stop		Name				
	1	9kHz	:	30MHz	CEB				
Prescan Measu	rement:	Detectors: Meas Time:		P / + AV scan settings					
		Peaks:	8						
		Acc Margin:	25 0	B					



REPORT NO.: 17091211

ZIPPY EMC LAB

conduction test

EUT:	DM1U2-5650V4V SPS
Manuf:	ZIPPY TECH COLTD
Op Cond:	FULL LOAD
Operator:	
Test Spec:	EN 55032 Class A
Comment:	Load Condition (40 18 0.5 18 3)
	L48V

Scan Settings	(3 Ra ——— Freque				 Receiver Set 	ettings —		
Start 150kHz 500kHz 5MHz	Stop 500kHz 5MHz 30MHz	2 Ste 2 2kl 201		Detector QP+AV QP+AV QP+AV	M-Time 50msec 1msec 1msec	Atten Auto Auto Auto	Preamp OFF OFF OFF	OpRge 60dB 60dB 60dB
					mooo	/ lato	011	oodb
Transducer	No. 1	Start 9kHz	Stop 30MHz	Name CEB				
Prescan Measu	urement:	Detectors: Meas Time: Peaks: Acc Margin:	X QP / + AV see scan setting: 8 25 dB	5				
Peak Search R	lesults							
Frequency	QP Level	QP Limit	QP Delta	Phase	PE			
MHz	dBµV	dBµV	dB	-	-			
0.178	60.87	79.00	18.13	Ν	gnd			
0.188	61.69	79.00	17.31	N	gnd			
8.55	52.05	73.00	20.95	N	gnd			
8.75	52.88	73.00	20.12	N	gnd			
18.55	51.92	73.00	21.08	N	gnd			
19.1	54.55	73.00	18.45	N	gnd			
19.35	52.66	73.00	20.34	N	gnd			
19.55	53.21	73.00	19.79	Ν	gnd			
Frequency	AV Level	AV Limit	AV Delta	Phase	PE			
MHz	dBµV	dBµV	dB	-	-			
0.178	54.54	66.00	11.46	Ν	gnd			
0.188	55.53	66.00	10.47	N	gnd			
8.3	47.22	60.00	12.78	N	gnd			
8.55	48.70	60.00	11.30	N	gnd			
8.75	48.02	60.00	11.98	Ν	gnd			
19.1	50.09	60.00	9.91	Ν	gnd			
19.45	47.37	60.00	12.63	N	gnd			
10 55	47.50	0.00	10.10	N	0.14			

* limit exceeded

19.55

Indicated Phase/PE shows Configuration of max. Emission

60.00

12.42

47.58

Ν

gnd

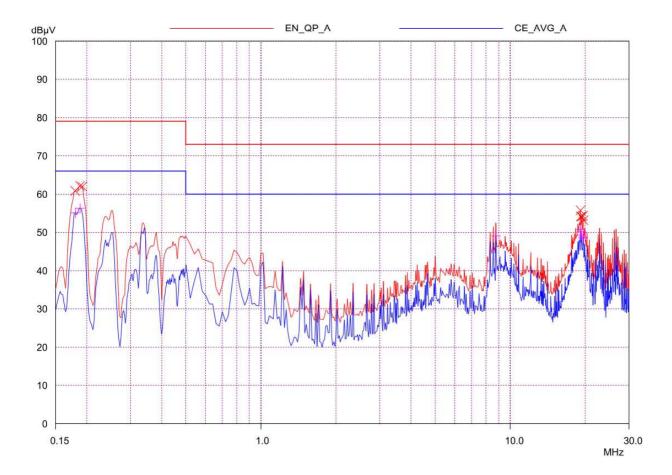
REPORT NO.: 17091211

ZIPPY EMC LAB

conduction test

EUT:	DM1U2-5650V4V SPS
Manuf:	ZIPPY TECH COLTD
Op Cond:	FULL LOAD
Operator:	
Test Spec:	EN 55032 Class A
Comment:	Load Condition (40 18 0.5 18 3)
	N48V

Scan Settings	(3 Ra —— Freque	0,				– Receiver Se	ettinas —		
Start	Stop		Step	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500kHz	2	2kHz	10kHz	QP+AV	50msec	Auto	OFF	60dB
500kHz	5MHz		20kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
5MHz	30MHz		50kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
Transducer	No.	Start	Stop		Name				
	1	9kHz	3	30MHz	CEB				
Prescan Measu	rement:	Detectors: Meas Time:	1000107	P / + AV scan settings					
		Peaks:	8						
		Acc Margin:	25 c	βB					



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ZIPPY EMC LAB

conduction test

EUT:	DM1U2-5650V4V SPS
Manuf:	ZIPPY TECH COLTD
Op Cond:	FULL LOAD
Operator:	
Test Spec:	EN 55032 Class A
Comment:	Load Condition (40 18 0.5 18 3)
	N48V

Scan Settings	(3 Ra —— Freque					 Receiver Set 	ettinas —		
Start	Stop	Ste	ep	IF BW	Detector	M-Time	Atten	Preamp	OpRge
150kHz	500kHz		Hz	10kHz	QP+AV	50msec	Auto	OFF	60dB
500kHz	5MHz		kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
5MHz	30MHz		kHz	10kHz	QP+AV	1msec	Auto	OFF	60dB
Transducer	No.	Start	Stop		Name				
	1	9kHz	30	MHz	CEB				
Prescan Measu	urement:	Detectors:	X QP	/ + AV					
		Meas Time:	see s	can settings					
		Peaks:	8						
		Acc Margin:	25 dE	3					
Peak Search R	esults								
Frequency	QP Level	QP Limit	Q	P Delta	Phase	PE			
MHz	dBµV	dBµV	dE	3	-	-			
0.18	60.81	79.00	18	8.19	N	gnd			
0.188	62.09	79.00	16	5.91	N	gnd			
0.192	61.97	79.00	17	.03	N	gnd			
19.1	55.74	73.00	17	.26	N	gnd			
19.2	54.14	73.00	18	8.86	N	gnd			
19.3	54.10	73.00	18	3.90	N	gnd			
19.55	54.27	73.00	18	3.73	N	gnd			
19.65	53.18	73.00	19	9.82	Ν	gnd			
Frequency	AV Level	AV Limit	~	/ Delta	Phase	PE			
MHz			dE		-	-			
IVITZ	dBµV	dBµV	dE	2	-	-			
0.18	55.09	66.00	10).91	Ν	gnd			
0.188	56.30	66.00	9.	70	N	gnd			
8.75	49.06	60.00	10	.94	Ν	gnd			
19.1	50.69	60.00	9.	31	Ν	gnd			
19.2	49.27	60.00).73	Ν	gnd			
19.3	50.20	60.00	9.	80	Ν	gnd			
19.55	48.50	60.00		.50	Ν	gnd			
19.65	48.76	60.00		.24	Ν	gnd			

* limit exceeded

Indicated Phase/PE shows Configuration of max. Emission

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3.2 Radiation Emission Test

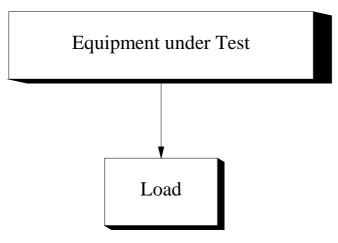
3.2.1 Test Equipment

The following test equipment's are used during the radiated emission test :

Instrument	Manufacture	Type No:	Last Calibration
Spectrum Analyzer	H.P	8594A	May.,2017
Test Receiver	IFR System	A-7550	Jun.,2017
Preamplifier	H.P	8447D	May.,2017
Biconical Ant.	Emco	3110	Jun.,2017
Log-Periodic Ant.	Emco	3146	Jun.,2017
Dipole Antenna	Emco	3121C	May.,2017

3.2.2 Test Setup

3.2.2.1 Block Diagram of Connection between EUT and simulators



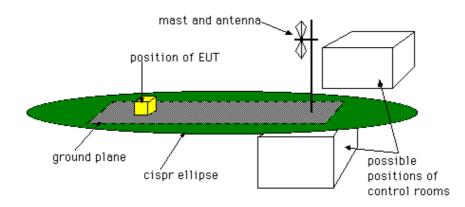
EUT: SWITCHING POWER SUPPLY

3.2.2.2 Open Field Test Site - description

The open field test site (OFTS) is designed to provide an environment in which repeatable tests of radiated emissions can be carried out.

It consists of a flat elliptical area as shown in the diagram below.

The equipment under test and the antenna are placed at the foci of the ellipse.



The antenna height should be remotely adjustable from 1m to 4m. Measuring instrumentation should be outside the ellipse at the position shown or in a room under the ground plane. The whole or part of the site may be enclosed in an RF transparent building. For precompliance testing a 3m test site with a fixed height antenna (at 1.5-2m height) and no metallic ground plane may be used. This may be a clear area on a car park or a grass area but should be away from large metallic structures.

3.2.3 Radiated Emission Limit

Frequency	Distance	Field Strength			
MHz	Meter	DB(uV/M)			
30-230	3	50			
230-1000	3	57			

Class A Limits

Remarks :

1. The tighter limit shall apply at the edge between two frequency bands.

2. Distance refers to the distance in meters between the measuring instrumentantenna and the closed point of any part of the device or system.

3.2.4 EUT Configuration

The equipment's which is listed 4.2.1 are installed on Radiated Emission Test to meet the Commission requirement and operating in a manner which tends to maximize its emission characteristics in a normal application.

3.2.5 Operation Condition of EUT

Same as Conducted Power Line Test which is listed in 3.1.5.

3.2.6 Radiated Emission Data

The measurement range of radiated emission which is from 30 MHz to 1000 MHz was investigated. The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range for all the test modes. Then the worst modes were reported the following data pages.

Radiated Emission Data

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: 23°C
TEST MODE	: DM1U2-5650V4V	HUMIDITY	: 57%

Frequency	Emission Level	Limits	
	Horizontal		Remark
(MHz)	dBuV/m	dBuV/m	
42.5	40.5	50.0	
99.6	36.1	50.0	
167.7	46.3	50.0	
238.0	47.1	57.0	
389.0	35.7	57.0	
931.2	32.2	57.0	

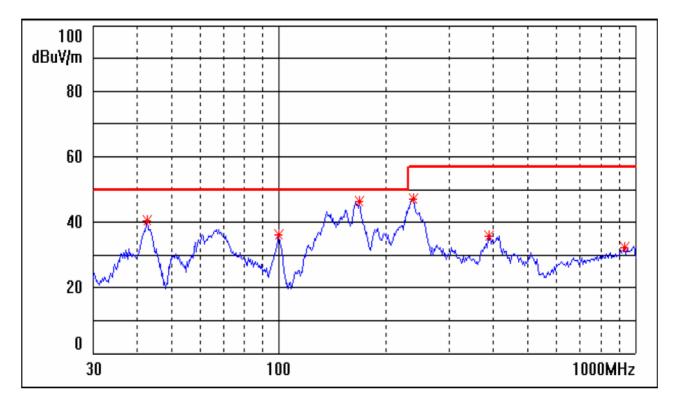
Radiated Emission Data

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: <u>23</u> °C
TEST MODE	[:] DM1U2-5650V4V	HUMIDITY	: 57%

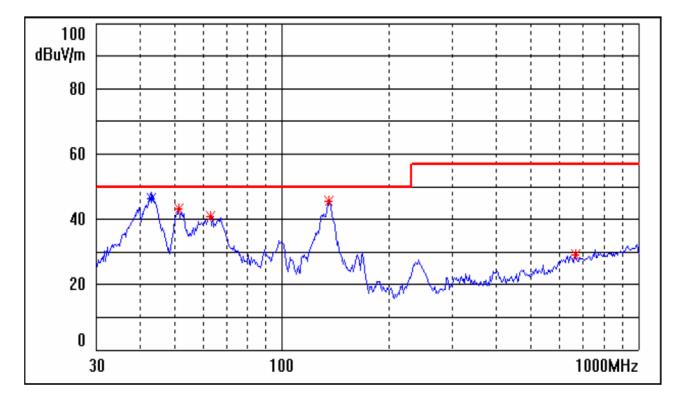
Emission Level	Limits	
Vertical		Remark
dBuV/m	dBuV/m	
46.1	50.0	
43.3	50.0	
40.9	50.0	
45.4	50.0	
29.0	57.0	
	dBuV/m 46.1 43.3 40.9 45.4	Vertical dBuV/m dBuV/m dBuV/m 46.1 50.0 43.3 50.0 40.9 50.0 45.4 50.0

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Horizontal Curve



Vertical Curve



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3.2.7 Test Photo and Setup



*During the radiated test, the power-supply has to test with chassis, which is not allowed to be operated stand-alone. (For user, final assembly has to comply with corresponding EMC-and safety-regulations.)

4. ESD Measurement

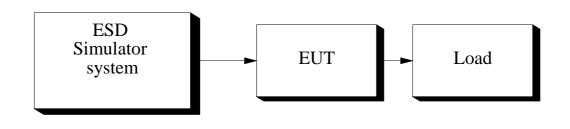
4.1 Test Equipment

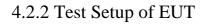
The following test equipment's are used during the ESD test :

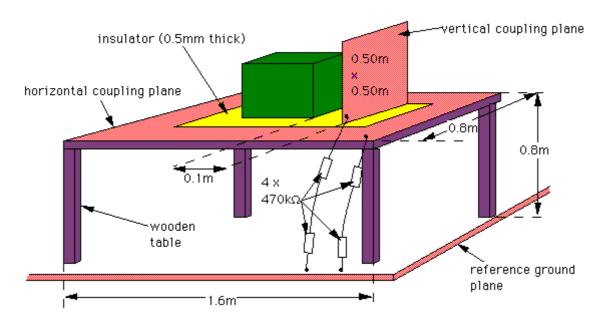
Instrument	Manufacture	Type No:	Last Calibration
ESD Simulator system	Keytek	MZ-15/EC	May.,2017
Electronic Load	D-RAM	Load-2000	N/A

4.2 Test Setup

4.2.1 Block Diagram of Connections between EUT and simulators







4.3 Severity Levels

LEVEL	TEST VOLTAGE CONTACT DISCHARGE	TEST VOLTAGE AIR DISCHARGE
1	2KV	2KV
2	4KV	4KV
3	6KV	6KV
4	8KV	8KV
X	SPECIAL	SPECIAL

4.4 EUT Operating Condition

1. Setup the EUT and Test Equipment as shown on 4.2

2. power on.

4.5 Test Procedure

Air Discharge:

This test was done above a non-conductive surfaces. The round discharge electrode about 30cm away will approach as fast as possible to touch test points of the EUT. Discharge happens before the contact. This procedure is repeated ten times on one selected location.

4.6 Test Method

According to IEC 61000-4-2

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4.7 Test Result

EUT	[:] <u>SWITCH POWER SUPPLY</u>	TEMPERATURE	: <u>26</u> °C
TEST MODE	[:] <u>DM1U2-5650V4V</u>	HUMIDITY	: 65%

Item	Amount of discharge	Voltage	Results
Contact discharge	500	+2KV -2KV	Pass Pass
Contact discharge	500	+4KV -4KV	Pass Pass
Air discharge	500	+2KV -2KV	Pass Pass
Air discharge	500	+4KV -4KV	Pass Pass
Air discharge	500	+6KV -6KV	Pass Pass
Air discharge	500	+8KV -8KV	Pass Pass

%Input Voltage : -48VDC

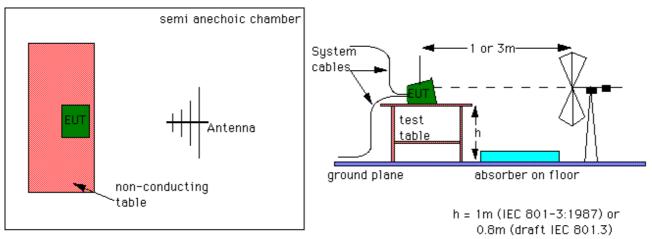
5. Radiated Susceptibility Measurement

5.1 Test Equipment

Instrument	Manufacture	Type No:	Last Calibration
Signal generator	H.P	8657A	Dec.,2016
Power amplifier	A&R	100A100	Dec.,2016
Field strength meter	A&R	FM2000	Oct.,2016
Field strength sensor	A&R	EP2000	Oct.,2016
Power antenna	A&R	AT1080	Oct.,2016

The following test equipment's are used during the RS test :

5.2 Block Diagram of Test Setup



Antennas-layout

For the upper frequency range of 200 to 1000 MHz, antennas are the normal method of producing the required field strength. This is also carried out in an anechoic chamber or a screened room. If a screened room is used it must be damped . The anechoic chamber should be used for compliance testing, the screened room may be used for precompliance testing. The fields in the screened room will not be as uniform as those obtainable in an anechoic chamber and will also not be as repeatable. The EUT is placed on a non-conductive table, 0.8 m above the reference ground plane, which in many cases will be the floor of a screened room. According to the standards, the EUT should be oriented so that its most sensitive side is facing the antenna. In practice it can be difficult to decide beforehand which is the most sensitive side, and in most cases, a series of tests will be required with the EUT in several orientations.

5.3 Severity Levels

LEVEL	FIELD STRENGTH V/M
1	1
2	3
3	10
X	SPECIAL

5.4 EUT Operating Condition

Same as section 4.4.

5.5 Test Procedure

The EUT and load are placed on a table which is 0.8 meter above ground. The field sensor is also placed on the same table to monitor field strength from transmitting antenna.

EUT is set 1 meter away from the transmitting antenna which is mounted on an antenna each time.

The antenna is fixed 1 meter above ground. Both horizontal and vertical polarization of the antenna are set on measurement. In order to judge the EUT performance, a CCD camera is used to monitor EUT screen.

All the scanning conditions are as follows :

Condition of Test	Remarks
1. Field Strength	3 V/M Level 2
2. Radiated Signal	80% Amplitude Modulated with a 1KHz Tone
3. Scanning Frequency	80 MHz-1 GHz
4. Sweep Time of Radiated	0.0015 Decade/s

5.6 Test Method

According to IEC 61000-4-3

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5.7 Test Result

EUT	SWITCH POWER SUPPLY	TEMPERATURE	: <u>26</u> °C
TEST MODE	[:] DM1U2-5650V4V	HUMIDITY	: 65%

Frequency Range (MHz)	Position (Angle)	Polarity (HorV)	Field Strength (V/M)	Results
80-1000	0° (Front)	Н	3	Pass
80-1000	90° (Right)	Н	3	Pass
80-1000	180° (Back)	Н	3	Pass
80-1000	270° (Left)	Н	3	Pass
80-1000	0° (Front)	V	3	Pass
80-1000	90° (Right)	V	3	Pass
80-1000	180° (Back)	V	3	Pass
80-1000	270° (Left)	V	3	Pass

Test Result : Criteria A

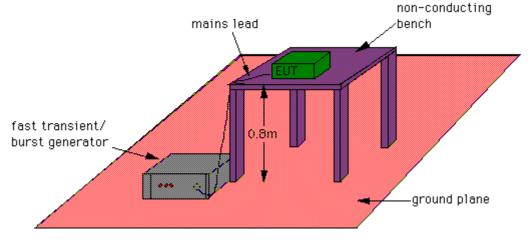
6. Electrical Fast Transient / Burst Measurement

6.1 Test Equipment

The following test equipment's are used during the EFT tests :

Instrument	Manufacturer	Type No.	Last Calibration
Fast Transient / Burst enerator	Keytek	EMCpro	May.,2017

6.2 Block Diagram of Test Setup



6.3 Severity Levels

Open Circuit Output Test Voltage ±10%		
Level	On power supply lines	
1	0.5KV	
2	1KV	
3	2KV	
4	4KV	
X	SPECIAL	

6.4 EUT Operation Condition

Same as section 4.4.

6.5 Test Procedure

The EUT and its load are placed on a table which is 0.8 meter above a metal ground plane measured 1m*1m min. And 0.65 mm thick min. And projected beyond the EUT by at least 0.1m on all sides.

The EUT is away from the walls of the test AC power line test is as follows:

For Ac power line test:

The EUT is connected to the power mains through a coupling device that directly couples the EFT interference signal.

Each of the Line and Neutral conductor is impressed with burst noise for 1 min.

6.6 Test Method

According to IEC 61000-4-4.

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6.7 Test Result

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: <u>26°C</u>
TEST MODE	: <u>DM1U2-5650V4V</u>	HUMIDITY	: 65%

Inject Line	Voltage KV	Frequency (KHz)	Inject time (sec)	Inject Method	Result
L1	±1	5	60	Direct	Pass
L2	±1	5	60	Direct	Pass
PE	±1	5	60	Direct	Pass
L1-L2	±1	5	60	Direct	Pass
L1-PE	±1	5	60	Direct	Pass
L2-PE	±1	5	60	Direct	Pass
L1,L2-PE	±1	5	60	Direct	Pass

%Input Voltage ∶ -48VDC

7. Surge Immunity Test

EUT	[:] SWITCH POWER SUPPLY	TEMPERATURE	: <u>26°C</u>
TEST MODE	[:] <u>DM1U2-5650V4V</u>	HUMIDITY	: 65%

0						
Waveform	Voltage	Output:LC	Phs Ref	Test	Delay	Result
12 Ohm	-2000V	MAINS:L1/PE	RND	5	60 sec	Pass
12 Ohm	2000V	MAINS:L1/PE	RND	5	60 sec	Pass
12 Ohm	-2000V	MAINS:L2/PE	RND	5	60 sec	Pass
12 Ohm	2000V	MAINS:L2/PE	RND	5	60 sec	Pass
2 Ohm	-1000V	MAINS:L1/L2	RND	5	60 sec	Pass
2 Ohm	1000V	MAINS:L1/L2	RND	5	60 sec	Pass

8. Conducted Immunity Test

EUT	: <u>SWITCH POWER SUPPLY</u>	TEMPERATURE	: 26°C
TEST MODE	[:] DM1U2-5650V4V	HUMIDITY	: 65%

Test frequency Range : 150kHz ~ 80MHz Frequency Step : 1% of the momentary frequency Dwell Time : Minimum 3 sec. per frequency Modulation : 1kHz Sine Wave with 80% Amplitude Modulation

Frequency Range	Polarity		Perfor	Performance	
(MHz)	(HorV)		Required	Observation	Result
0.15-80	Н	3	А	А	Pass

9. Power Frequency Magnetic Field (PFM) Immunity Test

EUT	: SWITCH POWER SUPPLY	TEMPERATURE	: <u>26</u> °C
TEST MODE	[:] DM1U2-5650V4V	HUMIDITY	: 65%

Magnetic Field	Magnetic Field	Perfor	Result	
Orientation	(A/m)	Required	Observation	(Pass/Fail)
X-axis	1A	А	А	Pass
Y-axis	1A	А	А	Pass
Z-axis	1A	А	А	Pass

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10. Photographs 1.Front view of Power Supply 2.Back view of Power Supply



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3.Front view of Power Supply 4.Back view of Power Supply



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5.Component side of Mainboard 6.Solder side of Mainboard





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7.Component side of Mainboard 8.Solder side of Mainboard





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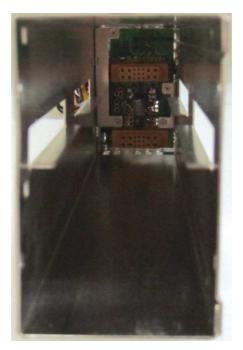
9.Inside view of Power Supply 10.Inside view of Power Supply





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11.Inside view of Power Supply12.Test view





11. EMI Reduction Method During Compliance Testing

1.No modification was made during test.