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TEST REPORT WWW. SZZhpower

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FCC Part15, Subpart B Zhpow

Report Reference No.....: 4788861795-3

Test Engineer (name + signature): Jack Xie

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Reviewed by (name + signature).....: Shawn Wen

Approved by (name + signature) Stephen Guo

Date of issue....: April 23, 2019

www.szzhpower.com Testing Laboratory Dong Guan Anci Electronic Technology Co., Ltd

Address & C.1. 1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan Lake

Hi-tech Industrial Development Zone, Dongguan City, Guangdong

Pr., China.

Applicant's name SZZhpowe Shenzhen Keysun Technology Ltd

Floor 2, 21, Plant 122, Ditang Road, Shasan Community, Shajing Address.....

Street, Baoan District, Shenzhen, Guangdong, China

Jack Xie

Manufacturer..... Shenzhen Keysun Technology Ltd

com

Floor 2, 21, Plant 122, Ditang Road, Shasan Community, Shajing Address....:

Street, Baoan District, Shenzhen, Guangdong, China

Test specification:

LEUT description AC/DC ADAPTER

zhpower.com

Model/Type referenceZH100DU-xxxyyyyWU, KS100DU-xxxyyyyWU, ZH100DU-xxxyyyy,

KS100DU-xxxyyyy (xxx and yyyy are variables, refer to model list WWW. SZZY

for details.)

Input: 100-240VAC, 50/60Hz, 2.0A ZZhpower.com

Output: 5.0-36.0Vdc, 0.01-8.3A

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	4.2. EUT PRODUCT I	-11010	WWW. Sa	277	IDOMET
r. com			•	WWW. SLI	- 5
T. 0	Zhpower.com			, .	WWW. ST
	Zhpower. Co	com			•
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1 GENERAL INFORMATION

1.1 CERTIFICATE

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www. szzhpower. com Testing Laboratory:

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Dong Guan Anci Electronic Technology Co., Ltd. SZZhpowe 1

1-2 Floor, Building A. No 11 11 Address...... szzhpower.co

Lake Hi-tech Industrial Development Zone, Dongguan City,

Guangdong Pr., China.

Applicant's name ... S.7.Zhpower Shenzhen Keysun Technology Ltd

Floor 2, 21, Plant 122, Ditang Road, Shasan Community, Address.....

Shajing Street, Baoan District, Shenzhen, Guangdong, China

Shenzhen Keysun Technology Ltd Manufacturer.....

Floor 2, 21, Plant 122, Ditang Road, Shasan Community, Address.....

Shajing Street, Baoan District, Shenzhen, Guangdong, China

SHENZHENSHI ZHENHUAN ELECTRONIC CO LTD Factory

www.szzhpower Address..... 6FL First building Fuhong Industrial Area Tangwei Commuity

Fuhai Street Baoan District Shenzhen, Guangdong 518103 ww. szzhpower. com

CHINA

Test specification:

Trade Mark....:

AC/DC ADAPTER EUT description

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ZH100DU-xxxyyyyWU, KS100DU-xxxyyyyWU, Model/Type reference: _{5ZZhpower}

ZH100DU-xxxyyyy, KS100DU-xxxyyyy (xxx and yyyy are

variables, refer to model list for details.)

KS100DU-1200830, KS100DU-3600277 Test Sample

SZZhpower. com Input: 100-240VAC, 50/60Hz, 2.0A Ratings.....

Output: 5.0-36.0Vdc, 0.01-8.3A

FCC Part15, Subpart B Standards:

ANSI C63.4-2014

The device described above was tested by Dong Guan Anci Electronic Technology Co., Ltd. to determine the maximum emission levels emanated from the device and severity levels of the device endure and its performance criterion. The measurement results are contained in this test report and Dong Guan Anci Electronic Technology Co., Ltd. assumes full responsibility for the accuracy and completeness of these measurements. This report shows the EUT is technically compliance with the above official standards.

This report applies to the above sample only and shall not be reproduced in part without written approval of WWW. SZZhpc UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch.

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Lzhpower. com 1.2 GENERAL PRODUCT INFORMATION SZZhpowi

The equipment model in this report is AC/DC ADAPTER for the use in information technology WWW. SZZ equipment.

Model Differences

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- 1. All models in ZH100DU-xxxyyyyWU series are identical to each other except for the model name, output rating plug type, secondary winding of transformer and some secondary components' rating.
- 2. The models ZH100DU-xxxyyyyWU are identical to the models KS100DU-xxxyyyyWU except for the model
- 3. All models in ZH100DU-xxxyyyy series are identical to each other except for the model name, output rating, secondary winding of transformer and some secondary components' rating
- 4. The models ZH100DU-xxxyyyy are identical to the models KS100DU-xxxyyyy except for the model name.
- 5. The models ZH100DU-xxxyyyyWU, KS100DU-xxxyyyyWU are identical to ZH100DU-xxxyyyy, 1 KS100DU-xxxyyyy except for the model name and supply connecting; The models ZH100DU-xxxyyyy, KS100DU-xxxyyyy are fitted with appliance inlet and the models ZH100DU-xxxyyyyWU, KS100DU-xxxyyyyWU are fitted with non-detachable power supply cord.
- 6. Model List: (•

1.115	- V - V			
Model No.	Rated output voltage (VDC)	Rated output current (A)	Max rated output power (W)	Transformer (T1)
ZH100DU-xxxyyyyWU, KS100DU-xxxyyyyWU,	5.0-14.9	1 0.01-8.3	100	ZH100-T-1xx (x=0-9 or blank)
ZH100DU-xxxyyyy, KS100DU-xxxyyyy	15.0-36.0	0.01-6.6	WW. S160	ZH100-T-2xx (x=0-9 or blank)

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Remark: xxx=050-360, which indicates for the rated output voltage from 5.0VDC to 36.0VDC, minimum step by

yyyy=0001-0830, which indicates for the rated output current from 0.01A to 8.3A, minimum step by 0:01A:

www.szzhpower.com All tests was performed on model KS100DU-1200830 and KS100DU-3600277. WWW. SZZhp

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The EUT passed the test.

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szzhpower.com 1.3. NORMATIVE REFERENCES V. SZZhpowe com [1] ANSI C63.4:2014 American National Standard for Methods of Measuring of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the D ver.com Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz. WW. SZ [2] FCC 47 CFR Part 2 General Rules and Regulations [3] FCC 47 CFR Part 15 Radio Frequency Devices (Subpart B) www.szzhpower.com www.szzhpower.com www.szzhpower ver. col azzhpower.com www.szzhpower.com www.szzhpower.com www. szzhpower.com www. szzhpower ver.com WW. SZ azzhpower.com www.szzhpower.com www.szzhpower.com www.szzhpower.com comwww. szzhpower ver.col azzhpower.com www.szzhpower.com www.szzhpower.com www. www.szzhpower.com www. szzhpower ver. co SZZhpower.com ower.com

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. SUMMARY OF TE	ST RESULTS rding to the technical standards:	SZZh	DOMO	OW	eĭ
rest procedures acco	Emission	WW		szzhpon	Ì
Standard	Test Item	Limit	Judgment	Remark	Ì
npower. com	Conducted Emission	Class B	PASS		1
FCC Part15, Subpart B ANSI C63.4-2014	Radiated Emission Below 1 GHz	Class B	PASS	m	İ
MMM.	Radiated Emission Above 1 GHz	Class B	POMAL.	NOTE (1) NOTE (2)	e3
NOTE:	W	WW.		SZZhpow	
(1) "N/A" denotes te	st is not applicable in this Test Repo	ort	WWI.	SL	
(2) If the highest frequer	ncy of the internal sources of the El	JT is less thar	n 108 MHz, the		

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- (1) "N/A" denotes test is not applicable in this Test Report
- (2) If the highest frequency of the internal sources of the EUT is less than 108 MHz, the measurement shall only be made up to 1 GHz. If the highest frequency of the internal sources of the EUT is between 108 MHz and 500 MHz, the measurement shall only be made up to 2GHz. If the highest frequency of the internal sources of the EUT is between 500 MHz and 1GHz, measurement shall only be made up to 5 GHz. If the highest frequency of the internal sources of the EUT is above 1 GHz, the measurement shall be made up to 5 times the highest frequency or 40 GHz, www. szzhpower. C whichever is less.
 - (3) Test in the shielding room.

2.1 **MEASUREMENT UNCERTAINTY**

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The reported uncertainty of measurement $\mathbf{y} \equiv \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately

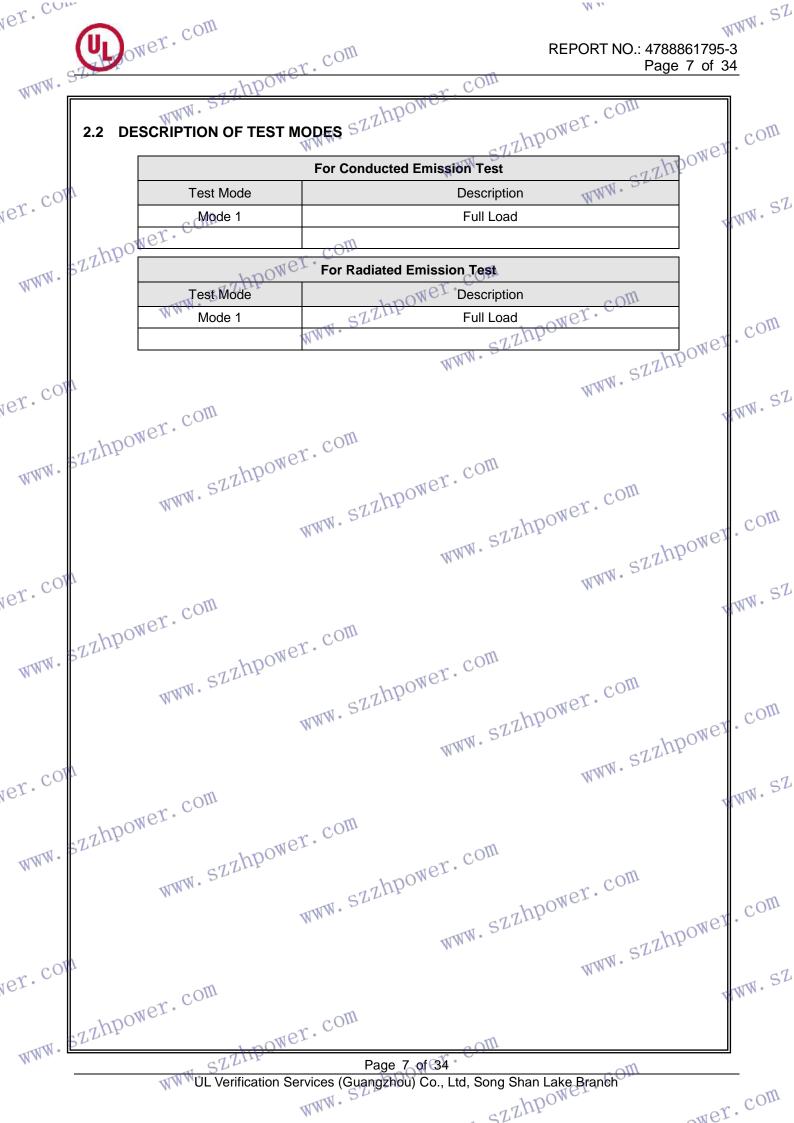
A. Conducted disturbance at mains terminals ports: POWEY.

Cond	lucted di	ST ^D sturbance	1.400	wer.com				
Те	st Site	Method	Measurement Frequency Range	₩ (dB)	NOTE			
	C01	ANSI	150 KHz ~ 30MHz WWW*	3.19	-17/hP0			
Radia	Radiated Emission Test :							

B. Radiated Emission Test:

		/ 1111				
h	Test Site	Method	Measurement Frequency Range	Ant. H / V	U · (dB)	NOTE
17	S02	ANSI	30MHz ~ 200MHz	V	3.69	
	S02	ANSI,\	30MHz ~ 200MHz	· AOn	3.69	
	S02	ANSI	200MHz ~ 1,000MHz	V	5.02	m_{Ω}
	S02WW	ANSI	200MHz ~ 1,000MHz	Η	5.02	TOT.
			WWW. SZ	C	Zhpo	Mez
			•	WWW.	ZZhpo	SZZhP
						- TI D

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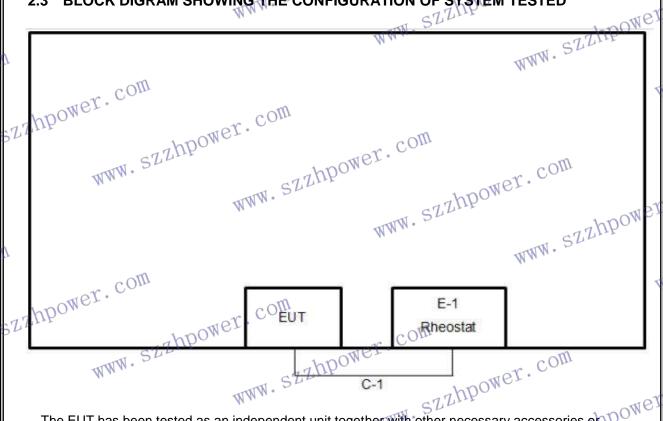
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2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED



The EUT has been tested as an independent unit together with other necessary accessories of 100 months. The following arms of the control of the following arms of the following support units. The following support units or accessories were used to form a representative test configuration during the tests.

conf	configuration during the tests.								
aht	OWe	7.	com						
STLL	Item	Equipment	Mfr/Brand	Model/Type No.	Specification	Series No.			
	E-1	Rheostat	N/A	BX7-15	40Ω 4A	N/A			
	E-2	Rheostat	N/A	ZhPBX8-45	25Ω 15Α γ	COM _{N/A}			
			WWW. S.		Thpow				

Item	Type of cable	Shielded Type	Ferrite Core	Length O
C-1	DC Cable	N/A	NO	M. SIIm

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3. CONDUCTED EMISSION TEST. SZZhpowi

3.1 CONDUCTED EMISSION MEASUREMENT

(Frequency Range 150KHz-30MHz) 3.1.1 LIMITS OF CONDUCTED EMISSION (MAINS PORT)

La TOWEY COM	Class A (dBuV)		Class B (dBuV)		
FREQUENCY (MHz)	Quasi-peak	Average	Quasi-peak	Average	
0.15 -0.5 577	79.00	66.0001	66 - 56 *	56 - 46 *	
0.50 -5.0	73.00	Z 60.00	56.00	wer 46.00	
5.0 -30.0	73.00	60.00	60.00hp	50.00 We	

Note:

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(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

 $_{
m L}$ (3) The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

www.szzhpower.com Correct Factor = Insertion Loss + Cable Loss + Attenuator Factor (if use)

Margin Level = Measurement Value - Limit Value

The following table is the setting of the receiver

rgin Level = Measurement Va	lue Limit Value	70X
	lue Limit Value	$50_{M_{\odot}}$
llowing table is the setting of t	he receiver	
Receiver Parameters	Setting	
Attenuation	10 dB	1
Start Frequency	0.15 MHz	
Stop Frequency	30 MHz	
IF Bandwidth	bnower. 9 kHz	
MEASUREMENT INSTRUME	NTS LIST WWW. SZZhpower. com	
MEASUREMENT INSTRUME	NTS LIST WWW. SZZhpo	ower
	www.	50
	_1T U	

3.1.2 MEASUREMENT INSTRUMENTS LIST

				-77	N. D.
Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until
1	EMI Test Receiver	ROHDEUSCHWARZ	ESPI	101144	2019-12-11
- hn	OWEL LISN	ROHDEUSCHWARZ	ENV216	101413	2019-12-11
1/23	Test Cable	N/A	N/A _m	5#	2019-05-23

Remark: "N/A" denotes No Model No. , Serial No. or No Calibration specified.

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WWW. SZZhpowe 3.1.3 TEST PROCEDURE

W. SZZhpower. com SZZhpower a. The EUT was placed 0.8 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipment powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.

- ${\cal I}^{\cal I}$ b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
 - c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end www.szzhpower of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
 - d. LISN at least 80 cm from nearest part of EUT chassis.
 - e. For the actual test configuration, please refer to the related Item: EUT Test Photos

3.1.4 DEVIATION FROM TEST STANDARD www.szzhpower.com

No deviation

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3.1.5 TEST SETUP

www.szzhpower.com www. szzhpower Vertical Reference Ground Plane Test Receiver 40 cm haower. com SZZhpowe Horization Reference Ground Plane

3.1.6 EUT OPERATING CONDITIONS

The EUT exercise program used during radiated and/or conducted emission measurement was designed to exercise the various system components in a manner similar to a typical use. www.szzhpower.com

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 c_{OM} WWW. SZZhpowe Zhpower. com 3.1.7 TEST RESULTS

	MM	SZZMP	awe?
EUT:	AC/DC ADAPTER		KS100DU-1200830, KS100DU-3600277
Temperature:	21°C	Relative Humidity:	55 % ^{WWW}
Pressure:	1008 hPa	Test Power:	AC 120V/60Hz
Test Mode:	Full Load		

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- szzhpower. rk:
 (1) Reading in which marked as QP means measurements by using Quasi-Peak Detector, and AV means measurements by using Average Detector.
- (2) All readings are QP Mode value unless otherwise stated AVG in column of [Note]. If the QP Mode Measured value compliance with the QP Limits and lower than AVG Limits, the EUT shall be deemed to meet both QP U AVG Limits and then only QP Mode was measured, but AVG Mode didn't perform. In this case, a " * " marked in AVG Mode column of Interference Voltage Measured.
- (3) Measuring frequency range from 150KHz to 30MHz.

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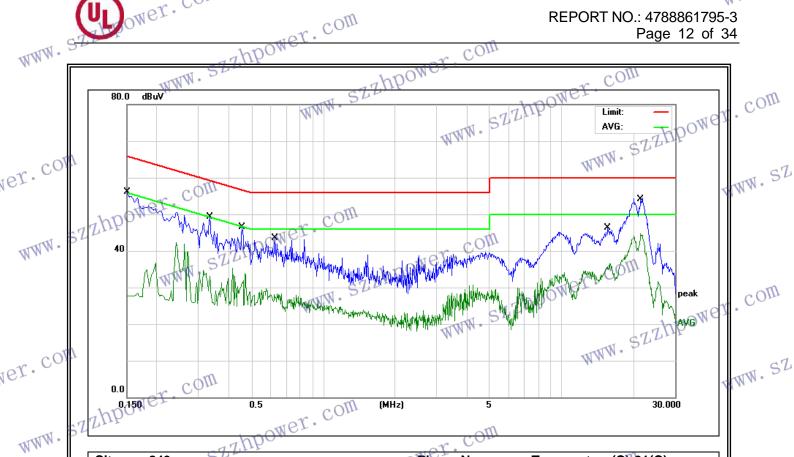
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FCC Part 15 Class B Conduction(QP)

AC/DC ADAPTED Site:

Limit:

WWW. AC/DC ADAPTER EUT: M/N.: KS100DU-1200830

Mode: **Full Load**

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Temperature(C):21(C)

Humidity(%):55%

77/2019-04-10 www. szzhpower **Test Time:** Power Rating: AC 120V/60Hz

Test Engineer: Jack

Note:

	COII							
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure- ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1500	39.24	9.73	48.97	65.99	-17.02	QP	
2	0.1500	1.7.18.63	9.73	28.36	55.99	-27.63	AVG	
3	0.3339	31.24	9.77	41.01	59.35	-18.34	QP)III	
4	0.3339	20.28	9.7757	30.05	49.35	-19.30	¹ AVG	
5	0.4580	29.87 🕥	9.77	39.64	56.73	17.09	QP	-10°
6	0.4580	19.52	9.77	29.29	46.73	-17.44	AVG	Throwe
7	0.6300	26.31	9.80	36.11	56.00	-19.89	QP 57	Trie
8	0.6300	16.46	9.80	26.26	46.00	-19.74	WAVG	
9	15.6780	29.89	10.03	39.92	60.00	-20.08	QP	
10	15.6780	22.83	10.03	32.86	50.00	-17.14	AVG	
111	W 21.5020	40.11	10.02	50.13	60.00	-9.87	QP	
1/12*	21.5020	34.73	10.02	44.75	50.00	-5.25	AVG	
		34.73 eT		Zhpower.	C_{OIII}		com	
	MM M.		S7	TUB		1 DOWE	r. com	

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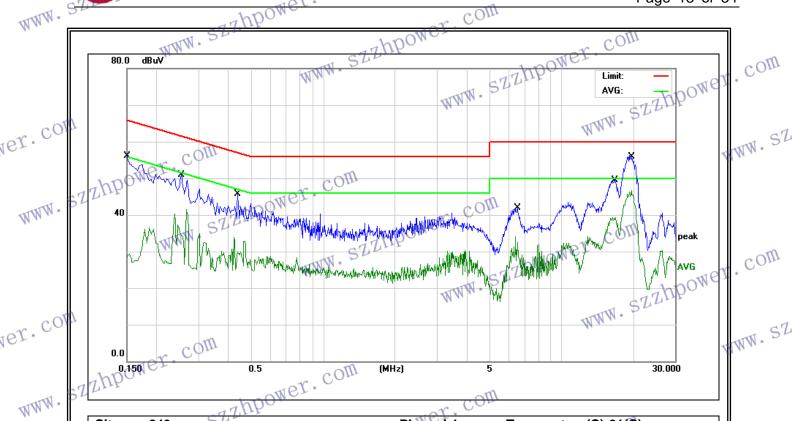
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Site: 843 FCC Part 15 Class B Conduction(QP) Limit:

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Phase:L1 Temperature(C):21(C) Humidity(%):55%

Liiiii.	I CC Fait i	o Class D Coll	auctioni	indilidity (6):55 /6				
EUT:	AC/DC AD	APTER	MM.	Test Time	: 20	019-04-10		107
M/N.:	KS100DU-	1200830		Power Ra	ting: A	C 120V/60)Hz	THOOME
Mode	: Full Load			Test Engi	neer: Ja	ack	57	TIL
Note:				•			WWW.	Zhpowe
	mo.	\						
No	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure- ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1500	38,94	9.73	48.67	65.99	-17.32	QP	
2	0.1500	1.7.18.56	9.73	28.29	55.99	-27.70	AVG	
3	0.2540	35.81	9.75	45.56	61.62	-16.06	QPIII	
4	0.2540	25.53	9.7557	35.28	51.62	-16.34	AVG *AVG	
5	0.4380	29.33 📢	9.77	39.10	57.10	18.00	QP	101
6	0.4380	18.97	9.77	28.74	47.10	-18.36	AVG	Thpowe.
7	6.5420	25.80	9.94	35.74	60.00	-24.26	QP S7	Tire
8	6.5420	13.93	9.94	23.87	50.00	-26.13	WAVG	
9	16.7939	29.57	10.05	39.62	60.00	-20.38	QP	
10	16.7939	22.77	10.05	32.82	50.00	-17.18	AVG	7
1110	W 19.6620	39.91	10.03	49.94	60.00	-10.06	QP	
712*	19.6620	36.13	10.03	46.16	50.00	-3.84	AVG	
	www. S	36.13 _{VeT}		46.16	COIII		r. com	
	MA		57	Trie		1 DOWE	er.	

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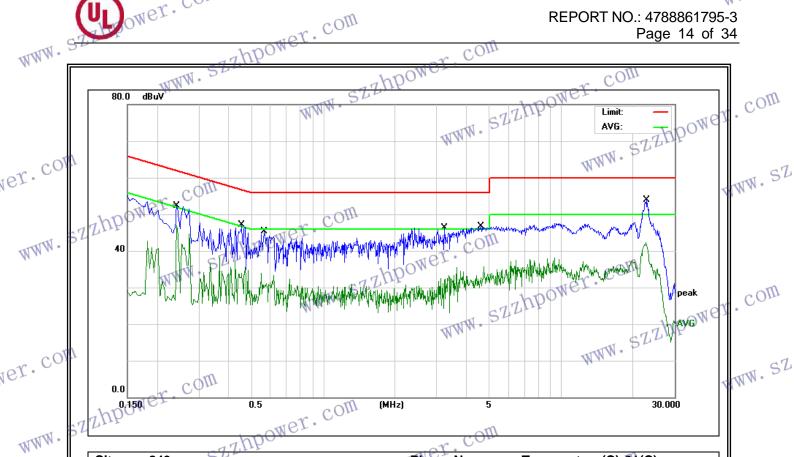
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WWW. SZ REPORT NO.: 4788861795-3 Page 14 of 34

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FCC Part 15 Class B Conduction(QP)

AC/DC ADAPTED Site: Limit:

WWW.

AC/DC ADAPTER **EUT:** M/N.: KS100DU-3600277

Full Load Mode:

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Temperature(C):21(C)

Humidity(%):55%

112019-04-10 www. szzhpower **Test Time:** Power Rating: AC 120V/60Hz

Test Engineer

iou c .	i uli Loau	rest Liigineer.	Jack
lote:			

		CON	Ū						
	No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure- ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
L	1	0.2420	39.71WE1	9.74	49.45	62.02	-12.57	QP	
	2 *	0.2420	1.1.37.28	9.74	47.02	52.02	-5.00	AVG	
	3	0.4540	33.14	9.77	42.91	56.80	-13.89	QP)III	
	4	0.4540	20.80	9,775	30.57	46.80	-16.23	AVG *AVG	
	5	0.5660	31.04	9.79	40.83	56.00, 7	15.17	QP	70
	6	0.5660	19.55	9.79	29.34	46.00	-16.66	AVG	Thpowe
	7	3.2340	31.35	9.90	41.25	56.00	-14.75	QP <1	TIME
	8	3.2340	20.03	9.90	29.93	46.00	-16.07	WAVG	
	9	4.6180	33.77	9.90	43.67	56.00	-12.33	QP	
	10	4.6180 OV	20.90	9.90	30.80	46.00	-15.20	AVG	
	11,	22.7780	35.75	10,03\	45.78	60.00	-14.22	QP	
1	112Y	22.7780	28.56	10.03	38.59	50.00	-11.41	AVG	
7[112] 22.7780 28.56 10.03 38.59 50.00 -11								com	
		MMM		ST ST	LILL		1 DOWE	r. com	

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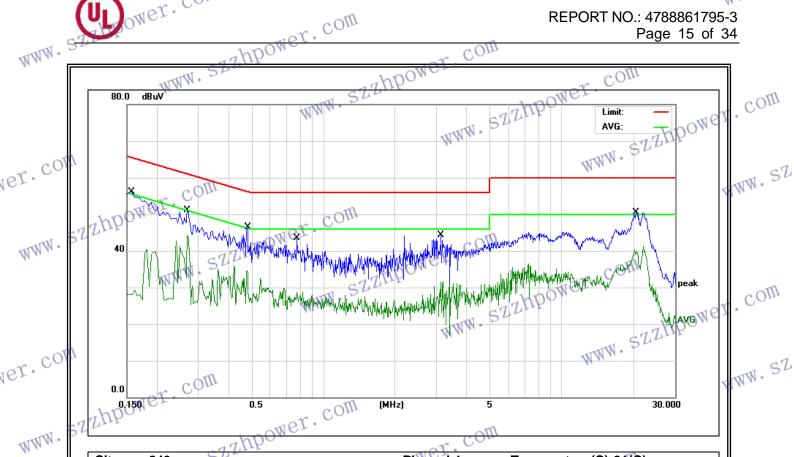
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Phase:L1 Site: 843 Temperature(C):21(C) FCC Part 15 Class B Conduction(QP) Limit: Humidity(%):55%

WWW. www. szzhpower AC/DC ADAPTER 2019-04-10 **EUT: Test Time:** AC 120V/60Hz M/N.: KS100DU-3600277 Power Rating:

Mode: **Full Load** Test Engineer: Jack

Note:

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	com							
No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure- ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1580	37,63N	9.73	47.36	65,56	-18.20	QP	
2	0.1580	17.18.06	9.73	27.79	55.56	-27.77	AVG	
3	0.2700	37.57	9.75	47.32	61.12	-13.80	QP)III	
4	0.2700	26.80	9.7557	36.55	51.12	-14.57	AVG *AVG	
5	0.4820	30.29 🕥	1 9.78	40.07	56.30, 7	1-16.23	QP	-10
6	0.4820	19.56	9.78	29.34	46.30	-16.96	AVG	-ppowe
7	0.7780	27.16	9.82	36.98	56.00	-19.02	QP 57	Trie
8	0.7780	18.27	9.82	28.09	46.00	-17.91	WAVG	
9	3.1140	30.71	9.90	40.61	56.00	-15.39	QP	
10	3,1140 ^{OV}	19.74	9.90	29.64	46.00	-16.36	AVG	
111	20.5459	33.25	10.02	43.27	60.00	-16.73	QP	
112*	20.5459	26.30	10.02	36.32	50.00	-13.68	AVG	

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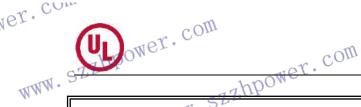
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3.2 RADIATED EMISSION MEASUREMENT

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3.2.1 LIMITS OF RADIATED EMISSION MEASUREMENT WWW (Below 1000MHz)									
com	Class A	(at 10m)	⊠Class	B (at 3m)					
Frequency MHz	(uV/m) com	(dBuV/m)	(uV/m)	(dBuV/m)					
ZIIB	Field strength	Field strength	Field strength	Field strength					
30 ~ 88 SZ	90	39ver.	100	20M 40					
88 ~ 216	150	12 43.5	150 Wer	43.5					
216 ~ 960	210	46.4	SZZ200	46 OWE Y					
960 ~ 1000	300	49.5 WWW	500	S754hp0					
NI 4				4771					

Notes:

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- (1) The limit for radiated test was performed according to as following: (2) The tighter limit applies at the band edges.
 (3) Emission level (4D-17)

 - (3) Emission level (dBuV/m)=20log Emission level (uV/m).
 - (4) Test in the SAC room.

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)										
FREQUENCY (GHz)	☐Class A (dE	BuV/m) (at 3m)	Class B (dBuV/m) (at 3m)							
PREQUENCY (GHZ)	PEAK	AVERAGE	PEAK	AVERAGE						
Above 1000MHz	80	60	74	54						

Notes: 3ZZhpow

- (1) The limit for radiated test was performed according to FCC Part15, Subpart B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

ower.com

(4) Test in the SAC room.

FREQUENCY RANGE OF RADIATED MEASUREMENT (For unintentional radiators)

	www. s
Highest frequency generated or Upper frequency of measurement used in the device or on which the device operates or tunes (MHz)	Range (MHz)
Below 1.705	COM 30
1.705 - 108	1000 1000
108 – 500	SZZMP 2000 Wer.
500 – 1000 W	5000 hp
Above 1000	5 th harmonic of the highest frequency or 40 GHz, whichever is lower
	M_{MM} .

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,,	3.2.2	MEAS	SUREMENT INSTRUME	ENTS LIST ZZhp	OMO	Thpowe	Zhpower. com		
			adiated Emission Measu		WWW	SZ	SZZhpow	167	
cOl	Ω	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until		
er. cor		1	EMI Test Receiver	Rohde U Schwarz	ESPI	100502	2019-11-29	V	
	1.40	2 e	Y Pre-Amplifier	HP	8447D	2727A06172	2019-05-23		
WWW.	5ZZNI	3	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2019-05-23		
MMM.		4	RE Cable	N/A	MA C	6#	2019-05-23		
		5	RF Cable	NALZhP	N/A	1-1#	2019-05-23		
				WWW.	www. santa			~1	
		3m Ra	adiated Emission Measu	rement 1G-18G	WWW	. SZZhpo"	azhpow	167	
		Item	Kind of Equipment N	Manufacturer Ty	vne No.	Serial No.	Calibrated until	l	

		3m R	adiated Emission Meas	surement 1G-18	G	szzhpo	ahpc	Mer
-	`	Item	Kind of Equipment	Manufacturer	Type No.	Serial No.	Calibrated until	
er. cov	.1	1	Spectrum Analyzer	Agilent	E4407B	US40240623	2019-11-28	
0 -		2	Low noise Amplifiers	A-INFO	LA1018N4009	J1013130524001	2019-05-23	1
	77hF	03/16	Horn antenna	A-INFO	LB-10180-SF	J2031090612123	2019-05-11	
WWW.	5/10	4	RF Cable OW	N/A	N/A C	O ^M 1-2#	2019-05-23	
***		5	RF Cable	N/A	hpoNA	7#	2019-05-23	

Remark: "N/A" denotes No Model No. Eserial No. and No Calibration specified.

3.2.3 TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For frequencies above 1GHz, any suitable measuring distance may be used.

 b. The EUT was placed on the top of a rotating table 0.8 meters obtained as the state of the fadicities. open area test site. The table was rotated 360 degrees to determine the position of the highest radiation
 - c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
 - d. 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 then Quasi-Peak detector mode re-measured.
 - e. 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.
 - f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.2.4 DEVIATION FROM TEST STANDARD www. szzhpowe

No deviation

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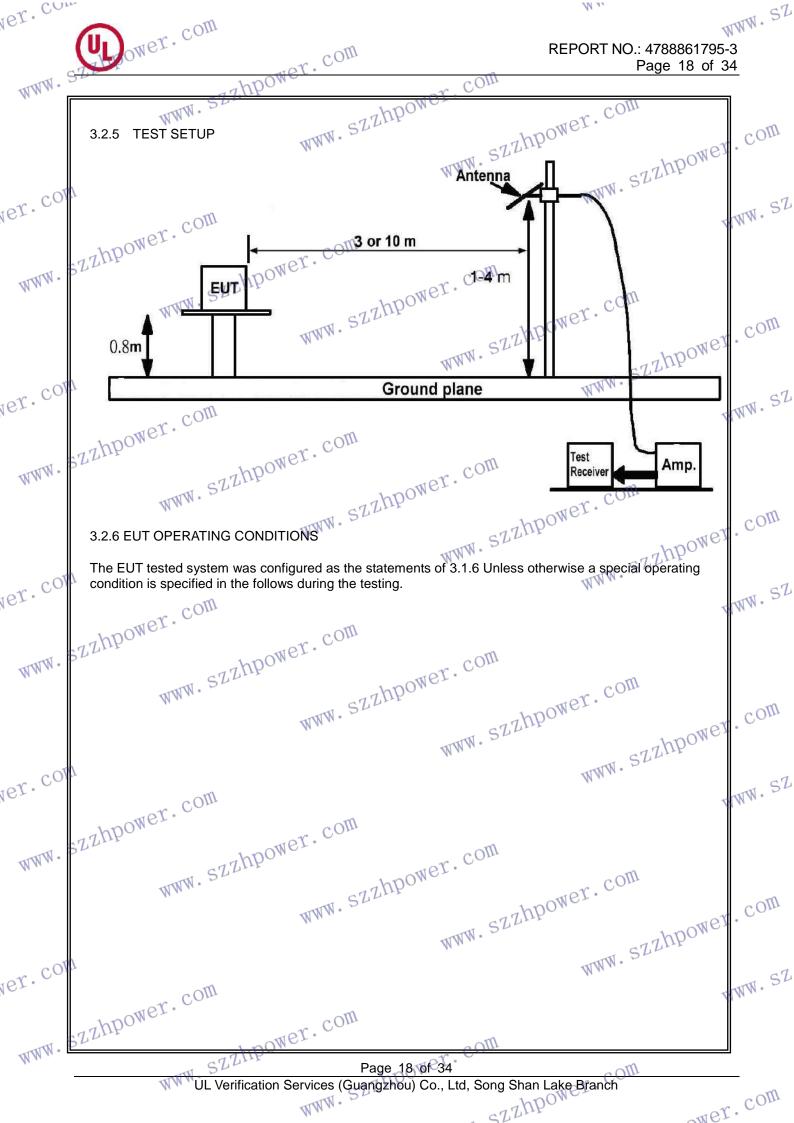
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3.2.7 TEST RESULTS

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3.2.7 TEST RES	ULTS WWW. SZZhpc	owe of the care of	wer. com
EUT :	AC/DC ADAPTER	Model No.:	KS100DU-1200830, KS100DU-3600277
Temperature :	22 ℃	Relative Humidity:	54 %WW
Pressure : CO	1008 hPa	Test Power:	AC 120V/60Hz
Test Mode :	Full Load COM		

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Remark:

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- k:
 (1) Reading in which marked as QP or Peak means measurements by using are Quasi-Peak Detector or Peak Detector.
- or Peak Detector.

 (2) All readings are Peak unless otherwise stated QP in column of [Note a . Peak denotes] that the Peak reading compliance with the QP Limits and then QP Mode measurement didn't perform.
- (3) Measuring frequency range from 30MHz to 1000MHz.
- (4) If the peak scan value lower limit more than 20dB, then this signal data does not how in table.

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SZZhpow Radiated Emission Test Result

Test Site : 966 Chamber

Test Date : 2019-04-10 **Tested By** : Jack

SZZhpower. : AC/DC ADAPTER **Model Number** : KS100DU-1200830

Power Supply: AC 120V/60Hz Test Mode O : Full Load

: Temp:22°C, Humi:54% Antenna/Distance: VULB9163-1/(3m) Condition

: Vertical Memo



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No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Remark	
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)			10X
1 *	43.9658	46.37	-12.55	33.82	40.00	-6.18	QP	-400	Mos
2	59.2325	44.34	-12.81	31.53	40.00	-8.47	QP	STILL	
3	112.5244	46.48	-12.03	34.45	43.50	-9.05	WQPN .		
4	124.5690	46.51	-12.75	33.76	43.50	-9.74	QΡ		
5	142.8243	46.50	-13.84	32.66	43.50	-10.84	QP		1
-616	213.7634	45.51	-11.32	34.19	43.50	-9.31	QP		

Note: 1. Result Level = Read Level+ Factor

I. Result Level = Read Level+ Factor

2. If PK Result complies with QP limit, QP Result is deemed to comply with QP limit www. szzhpower. com WWW. SZZhpo 3.RBW 120KHz

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SZZhpow Radiated Emission Test Result

Test Site : 966 Chamber

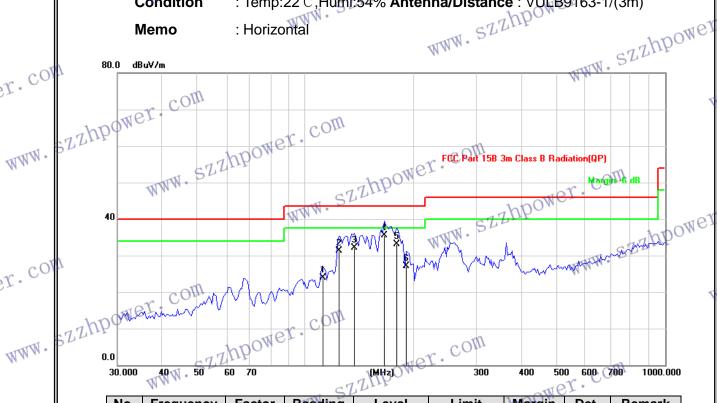
 $_{\rm SZZhpow}$ Test bate : 2019-04-10 **Tested By** : Jack

: AC/DC ADAPTER : KS100DU-1200830 **Model Number**

Power Supply: AC 120V/60Hz Test Mode : Full Load

Condition : Temp:22°C, Humi:54% Antenna/Distance: VULB9163-1/(3m)

: Horizontal Memo



No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Remark	4
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		1 100	Mez
1	111.7380	35.82	-12.01	23.81	43.50	-19.69	QP	OT THE	
2	124.1330	44.06	-12.78	31.28	43.50	-12.22	QPN .	50	
3	136.6993	45.59	-13.56	32.03	43.50	-11.47	QP		
4 *	165,7771	49.22	-13.65	35.57	43.50	-7.93	QP		1
510	179.3863	46.15	-13.03	33.12	43.50	-10.38	QP		
00%	190.7390	39.57	-12.50	27.07	43.50	-16.43	QP		

Note: 1. Result Level = Read Level+ Factor

2. If PK Result complies with QP limit, QP Result is deemed to comply with QP limit www. szzhpower. WWW. SZZh

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WWW. SE SZZhpow Radiated Emission Test Result

Test Site : 966 Chamber

Test Date : 2019-04-10 **Tested By** : Jack

SZZhpower. : AC/DC ADAPTER **Model Number** : KS100DU-3600277

Power Supply: AC 120V/60Hz Test Mode O : Full Load

: Temp:22°C, Humi:54% Antenna/Distance : VULB9163-1/(3m) Condition

: Vertical Memo



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No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Remark	
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)			-101
1	37.7013	40.57	-13.17	27.40	40.00	-12.60	QP	-hn0	MO
2	61.6728	41.43	-13.53	27.90	40.00	-12.10	QP	STLLIF	
3	77.5049	48.64	-16.60	32.04	40.00	-7.96	WQPN .		
4	110.1536	43.94	-11.89	32.05	43.50	-11.45	QΡ		
5 *	125.6752	49.48	-12.83	36.65	43.50	-6.85	QP		4
-616	143.3839	49.83	-13.880	35.95	43.50	-7.55	QP		

Note: 1. Result Level = Read Level+ Factor

1. Result Level = Read Level+ Factor
2. If PK Result complies with QP limit, QP Result is deemed to comply with QP limit www.szzhpower.com WWW. SZZhpo 3.RBW 120KHz

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SZZhpow WWW. 52 www. szzhpower Radiated Emission Test Result

Test Site : 966 Chamber

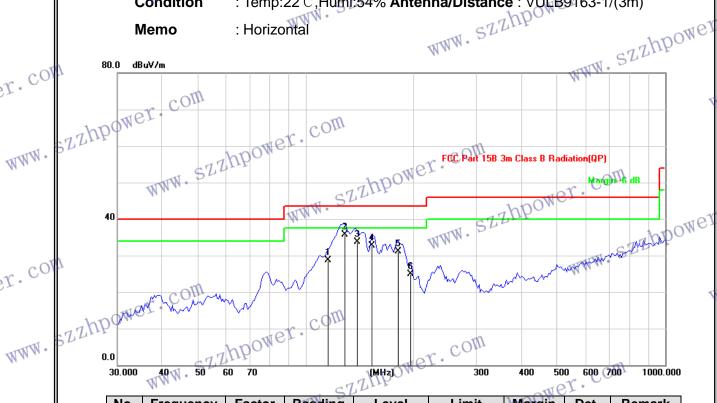
Jake Date : 2019-04-10 **Tested By** : Jack

: AC/DC ADAPTER : KS100DU-3600277 **Model Number**

Power Supply: AC 120V/60Hz Test Mode : Full Load

Condition : Temp:22°C, Humi:54% Antenna/Distance: VULB9163-1/(3m)

: Horizontal Memo



	- 32									
No.	Frequency	Factor	Reading	Level	Limit	Margin	Det.	Remark	-01	
	(MHz)	(dB/m)	(dBuV)	(dBuV/m)	(dBuV/m)	(dB)		1.00	Mes	
1	115.7256	40.89	-12.26	28.63	W 43.50	-14.87	QP	OT THE		
2 *	128.5630	48.76	-13.05	35.71	43.50	-7.79	QR)	50		
3	139.1172	47.45	-13.70	33.75	43.50	-9.75	WQP			
4	153.2004	46.88	-14.23	32.65	43.50	-10.85	QP		1	
5,0	180.9658	43.98	-12.96	31.02	43.50	-12.48	QP]	
006	195.8220	37.16	-12.27	24.89	43.50	-18.61	QP			

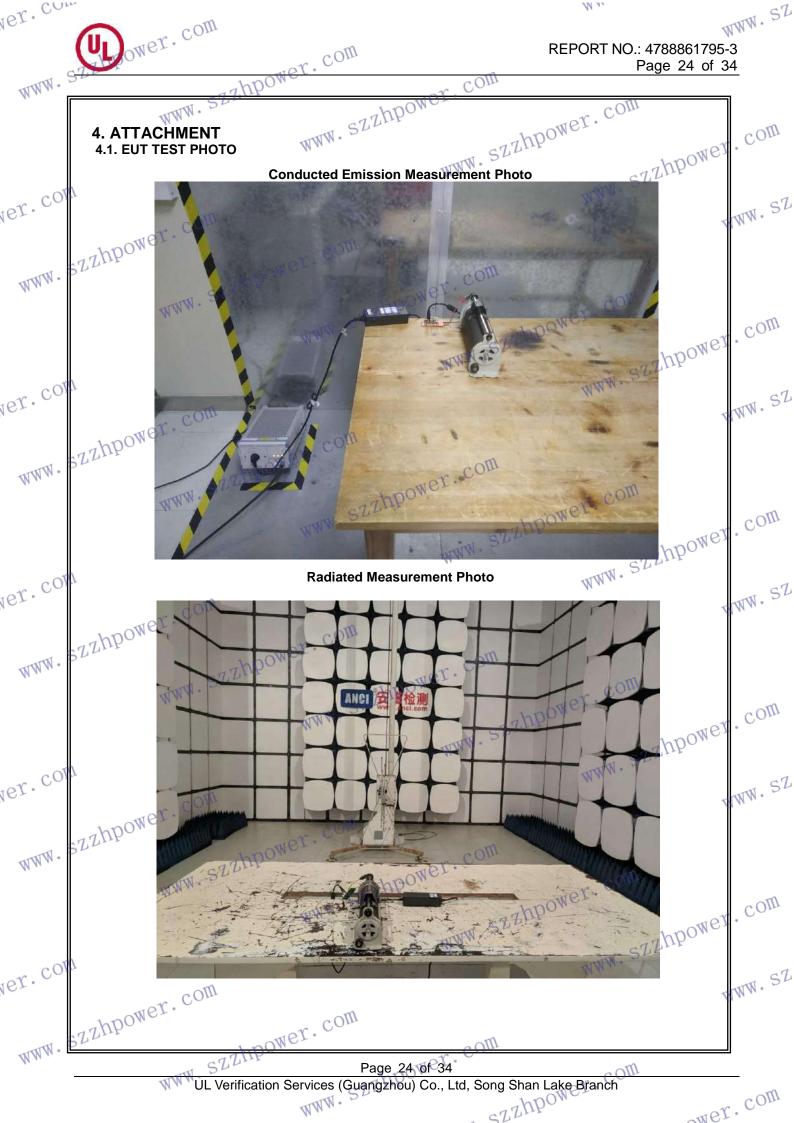
Note: 1. Result Level = Read Level+ Factor

2. If PK Result complies with QP limit, QP Result is deemed to comply with QP limit www. szzhpower. WWW. SZZh

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Overall view of unit for models ZH100DU-xxxyyyy, KS100DU-xxxyyyy Figure 1.



Overall view of unit for models ZH100DU-xxxyyyy, KS100DU-xxxyyyy Figure 2. WWW.

ower. com Page 25 of 34 ver. com WWW. STEEDOWET. COM WWW. SZ www. SZZhpower. com REPORT NO.: 4788861795-3 Page 26 of 34 c_{OM} WWW, SZZhpowe www. szzhpower. com com www. szzhpower ver.com WW. SZ SZZhpower.com WWW. comW. 881 hpower ver. cov WW. SZ SZZhpowe www. eo eo do 30 so 10100 ao 80 70 60 50 40 30 20 10 mg www. szzhpower.com Figure 3. Overall view of unit for models ZH100DU-xxxyyyy, KS100DU-xxxyyyy ver.com WW. SZ _{6ZZ}hpowe Zzhpower. com www. . com com hpower)))ver.co WW. SZ www. szzhpowe յում (բավաչինի գետվում իույրականիայիայիայիայացույանի արագայանիայիայիայիայիայիայիայիայիայիայի O mm Of OS OE 04 03 09 07 08 09 00101 02 02 04 03 09 07 08 09 00301 02 comwww.szzhpower Figure 4. Overall view of unit for models ZH100DU-xxxyyyy, KS100DU-xxxyyyy www. ver. co WW. SZ www. BZZhpower.com ower. com Page 26 of 34

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Figure 11. Internal view of unit for models ZH100DU-xxxyyyy, KS100DU-xxxyyyy



Internal view of unit for models ZH100DU-xxxyyyyWz, KS100DU-xxxyyyyWzpowex Figure 12.

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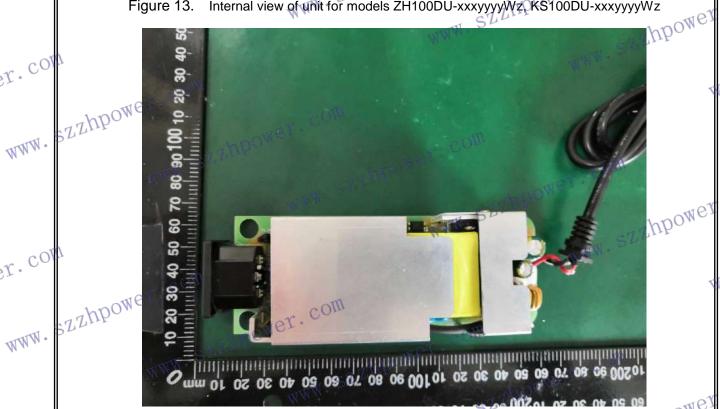
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Figure 13. Internal view of unit for models ZH100DU-xxxyyyyWz, KS100DU-xxxyyyyWz



Top view of PCB for models ZH100DU-xxxyyyy, KS100DU-xxxyyyy Figure 14.

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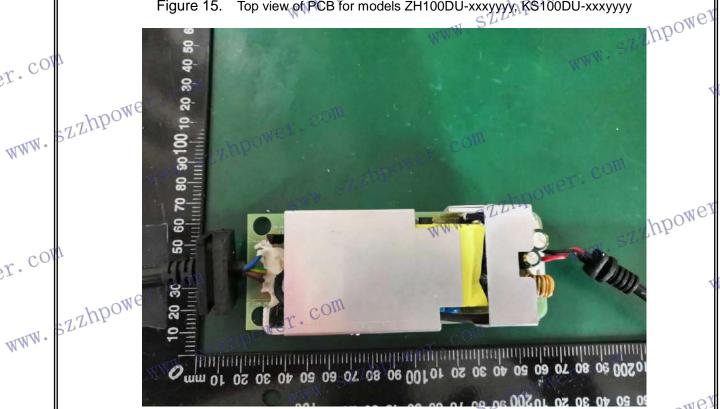
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Figure 15. Top view of PCB for models ZH100DU-xxxyyyy, KS100DU-xxxyyyy



Top view of PCB for models ZH100DU-xxxyyyyWz, KS100DU-xxxyyyyWz Figure 16.

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Figure 17. Top view of PCB for models ZH100DU-xxxyyyyWz, KS100DU-xxxyyyyWz



Figure 18. Bottom view of PCB for models ZH100DU-xxxyyyy, KS100DU-xxxyyyy

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ver. com WWW. STEEDOWET. COM WWW. SZ www. Szz.hpower.com REPORT NO.: 4788861795-3 Page 34 of 34 comW. SZZhpower power. com . com WAMARA PLOMEL 8 ver. cor 8 WW. SZ SZZhpowe WWW. com hpower ver. con WW. SZ SZZhpowe Omm of 02 02 04 05 06 07 08 06 00for 02 02 04 06 06 08 06 0020 www. 20 20 40 30 50 10500 30 80 10 00 00 00 00 10 100 30 80 10 20 00 00 00 00 00 00 www.szzhpower.com Figure 19. Bottom view of PCB for models ZH100DU-xxxyyyyWz, KS100DU-xxxyyyyWz WWW. S ver.com WW. SZ szzhpower.com www.szzhpower.com www.szzhpower.com www. www.szzhpower.com . com www.szzhpower ver.com WW. SZ www. SZZhpower.com www.szzhpower.com www.szzhpower.com www.szzhpower.com . com www.szzhpower ver. cov WW. SZ WWW. BZZhpower.com power. com Page 34 of 34 UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch cmor. com c7.Zhpor WWW.