



SPECIFICATION FOR REFERENCE

APPROVAL SIGNATURE

DATE:

CUSTOMER: SUNFLOWER

PART NO: _____ **REV:** A

DESCRIPTION: Adapter

***PLEASE SIGN AND RETURN ONE COPY.**

***ALL PRODUCTION UNITS WILL BE BUILT ACCORDING TO THIS SPECIFICATIONS.**

PREPARED	CHECKED	APPROVED
肖玲	龔進濤	鄒佳材
DATE:2016/01/05	DATE:2016/01/05	DATE:2016/01/05

MODEL NO: 2ABU120F

CATALOG NO: _____

AGENCY APPROVAL: _____

PRESENTED BY: _____

NO.A160105-01

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Guangzhou, Guangdong Province, China**



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1 SCOPE

This document describes basic electrical characteristics and mechanical requirements of Model No. _____
2ABU120F switching power supply.

2 ELECTRICAL SPECIFICATION

2.1 INPUT REQUIREMENT

2.1.1 INPUT VOLTAGE RANGE

Power supply shall operate within specification from 90 to 264Vrms or provide automatic switching in two ranges. The table below shows common input voltage range.

Input Range	Minimum	Nominal	Maximum	Unit
	90	100-240	264	Vac, rms

Table 1 - Input Voltage Range

2.1.2 INPUT FREQUENCY RANGE

The power supply shall operate within specification from 47 to 63 Hz.

2.1.3 AC INRUSH CURRENT

It shall be limited to a level below the I^2t of the fuse and the bridge diode. No damage.

2.1.4 INPUT CURRENT

Maximum steady state input current shall not exceed 2.0 A for any line voltage specified in 2.1.1.

2.1.5 LOW POWER CONSUMPTION

Vin	Load	Power consumption
230Vac / 50Hz	0A	< 0.15 W

2.1.6 POWER FACTOR

$PF > 0.9$ (at 115V/230VAC with Full load)

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2.2 INPUT PROTECTION

2.2.1 INPUT CURRENT PROTECTION

A fuse with rating of 3.15 A / 250 V (Time Lag) shall be installed on the input line side near the input connector to provided protection to the power supply.

2.2.2 INPUT CURRENT HARMONIC

Input current harmonic of the power supply should meet IEC 61000-3-2 requirement.

2.3 OUTPUT REQUIREMENT

2.3.1 OUTPUT POWER

Unit total output power, under steady state conditions, shall not exceed 120 W .

2.3.2 OUTPUT VOLTAGE AND CURRENT

Under any combination of line and load variation and environmental conditions, all outputs shall remain within tolerance defined in Table 2. Output voltage(s) shall be measured at the load side of output connector.

	Output Voltage	Voltage Range		Current Range		
		Lower Limit	Upper Limit	Minimum Load	Full rated load	Peak Load
1	+12V	11.4V	12.6V	0A	10A	13A@10s (115/230VAC)

Table 2 - Output Voltage and Current

2.3.3 RIPPLE AND NOISE

Measurements shall be made with an oscilloscope with minimum of 20MHz bandwidth. Output shall be bypassed at the connector with a 0.1µF ceramic disk capacitor and a 10µF electrolytic capacitor for general testing purpose.

Output Voltage	Maximum Ripple & Noise (Vp-p)
+12V	240mV

Table 3 – Ripple and Noise

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2.3.4 OVER VOLTAGE PROTECTION

The power supply shall be provided with over voltage protection such that under any single component failure, output channel shall exceed the voltages specified, the first will clamp, second will latch minimum load 0.1A.

Output Voltage	Maximum OVP Trip Voltage
+12V	+22V

Table 4 – Over Voltage Protection

Note : In the event of latch an over - voltage condition on output voltage, the power supply shall shutdown and require remove the AC mains.

2.3.5 OVER CURRENT PROTECTION

Over current protection shall be operated within specify 14.5A (min) ~ 20A (Max) , defined in section 2.3.1 at 100~240Vac line input or temperature conditions.

2.3.6 OVERSHOOT AND UNDERSHOOT

During turn on, turn off condition, the output overshoot shall not exceed nominal voltage by more than 10 %, and output shall not change its polarity with respect to its return line.

2.3.7 SHORT CIRCUIT PROTECTION

Power supply shall have self-limiting protection to protect against short circuit or overload conditions. No damage to the supply shall result from a continuous or intermittent short circuit condition.

2.3.8 AUDIBLE NOISE

There is no audible noise can be heard when it works at rated spec

2.4 PERFORMANCE REQUIREMENT

2.4.1 EFFICIENCY

Efficiency (watt out / watt in) shall be a minimum of 89% with average mode at 115V/60Hz & 230Vac/50Hz input

Shall comply with DOE level 6

European CoC - EPS Version 5 Tier 2

2.4.2 TURN ON DELAY TIME

Output shall reach steady state in 3 seconds after turn on.

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2.4.3 HOLD-UP TIME

Hold-up time shall be a minimum of 8_ms at 45 degrees, 115Vac / 60Hz of input.

Hold-up time shall be a minimum of 8_ms at 45 degrees, 230Vac / 50Hz of input.

2.4.4 DYNAMIC LOAD

Power supply shall operate within regulation defined at following conditions:

Rate output voltage: +/-10%

Step load change: from 0 to 5A and 5 to 10A on the output

Dwell Time: 100Hz & 1 KHz 50% duty.

Slew rate: 2.5A/usec

3 ENVIRONMENTAL SPECIFICATION

3.1 TEMPERATURE

Operation within specification: 0 to 40 degrees C.

Storage: -20 to 80 degrees C

3.2 HUMIDITY

Operation: 10% to 90% relative humidity, non-condensation.

Storage: 5% to 95% relative humidity, including condensation.

3.3 VIBRATION

Operating: 10-250Hz, 0.25G peak to peak, 3 axes, 15 min sweep.

Storage: 10-300Hz, 2.0G peak to peak, 3 axes, 15 min sweep.

3.4 ALTITUDE

Power supply shall operate to an altitude of 5000 m

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3.5 CALCULATED MEAN TIME BETWEEN FAILURES (MTBF)

The MTBF for the power shall equal or exceed 200,000 hours when operated at full rated load and AC110V or AC230V in an ambient temperature of 40 °C by Telcordia SR-332, issue 2.

Minimum E-capacitor lifetime is 3 years at 25°C at AC 110V/230V and with 100% nominal load.

4 REGULATORY COMPLIANCE

4.1 EMC SPECIFICATION

4.1.1 FCC REQUIREMENTS

Power supply shall comply with the radiated and conducted emission requirements for FCC Class B.

4.1.2 CISPR REQUIREMENTS

Power supply shall comply with the radiated and conducted emission requirements for CISPR 22 Class B.

4.2 IMMUNITY

4.2.1 ELECTROSTATIC DISCHARGE (ESD), EN 61000-4-2

The power supply shall compliance to EN61000-4-2, withstand the following ESD conditions at any point on the power supply enclosure when tested as following condition.

+/- 8KV discharge by air & +/- 4KV discharge by contact, no damage.

The storage capacitance shall be 150 pF and the discharge resistance shall be 330 ohms. The power supply shall meet all discharge requirements for the CE Mark designation.

4.2.2 RADIATED FIELD IMMUNITY, EN 61000-4-3

Power supply shall withstand following condition:

Frequency Range: 80 - 1000MHz

Field Strength: 3 V/m with 80% amplitude modulation of 1 kHz

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4.2.3 FAST TRANSIENT IMMUNITY, EN 61000-4-4

Power supply shall withstand EN 61000-4-4 +/-1kV requirements.

4.2.4 SURGE IMMUNITY, EN 61000-4-5

Power supply shall withstand 1kV (L – L) and 2kV (L – PE) without functional failure.

4.2.5 CONDUCTED IMMUNITY, EN 61000-4-6

Power supply shall withstand following condition:

Frequency Range: 0.15 - 80MHz

Field Strength: 3 V/m with 80% amplitude modulation of 1 kHz

4.2.6 VOLTAGE DIPS AND INTERRUPTIONS, EN 61000-4-11

Power supply shall meet EN61000-4-11 requirements.

4.3 AGENCIES CERTIFICATIONS

Unless otherwise specified, the supply is designed to meet IEC 60950-1 and/or equivalent safety standards for use in Information Technology Equipment. For desktop universal adapter, CB certificate will identify and support worldwide deviations. Specific agency certifications will be applied at customer's request and cost.

4.3.1 PRODUCT SAFETY COMPLIANCE

Agency	Countries
(cUL)	Canada
(UL)	USA
(TUV)	Europe

Table 5 - Safety Compliance

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4.3.2 LEAKAGE CURRENT

Power supply touch current shall not exceed 3.5 mA at input voltage of 264Vac / 60Hz.

4.3.3 DIELECTRIC STRENGTH

The power supply shall withstand following Hi-pot test without breakdown.

4242 Vdc input(L & N) to output for 3 seconds.

2121 Vdc primary(L & N) to PE(primary earth ground) for 3 seconds.

4.3.4 INSULATION RESISTANCE

It shall be more than 50M ohm 500VDC 60S, between primary and secondary. 25°C

/55%RH.

5 MECHANICAL

5.1 INPUT CONNECTOR AND OUTPUT CABLE

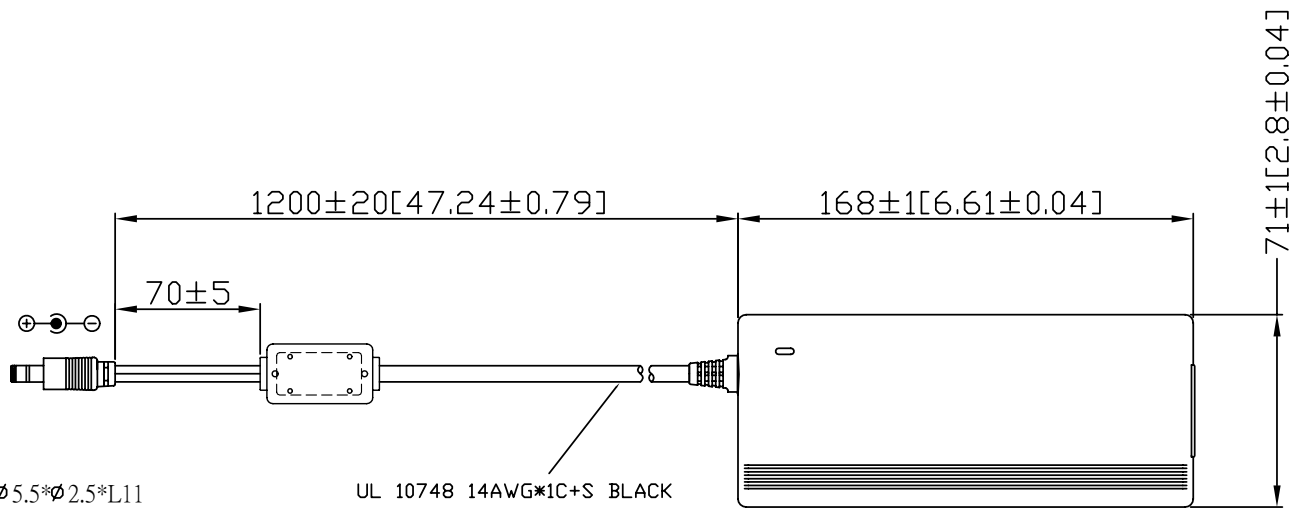
5.1.1 INPUT CONNECTOR

AC Input connector shall be an IEC60320 C14 power connector (International Class I Plug Style).

5.1.2 OUTPUT CABLE:

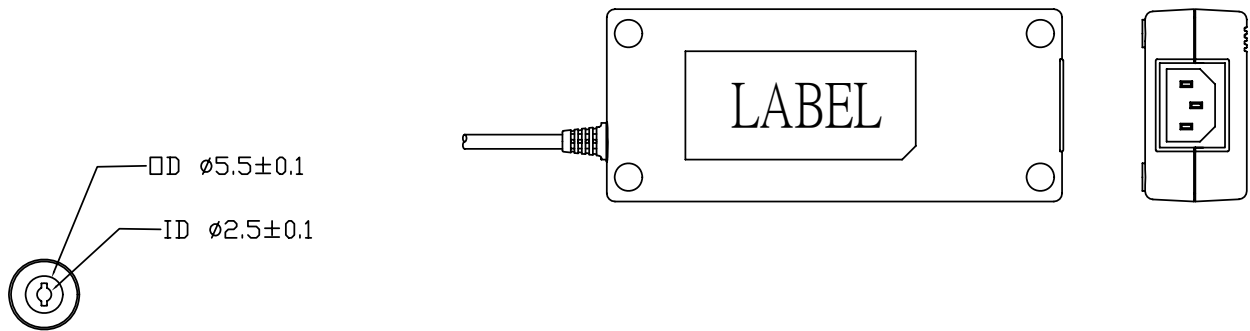
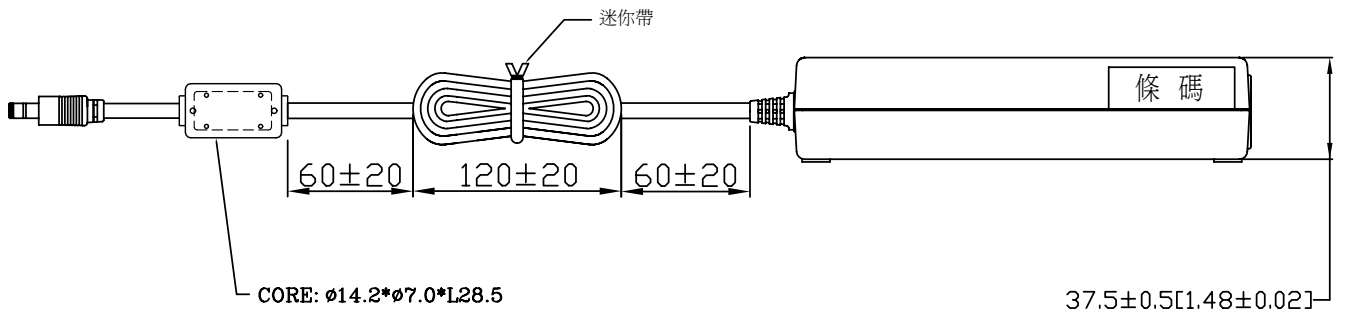
Refer to Refer to drawing.

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PLUG TYPE: $\phi 5.5 * \phi 2.5 * L11$
音叉叉溝式, 內縮1.5±0.2mm

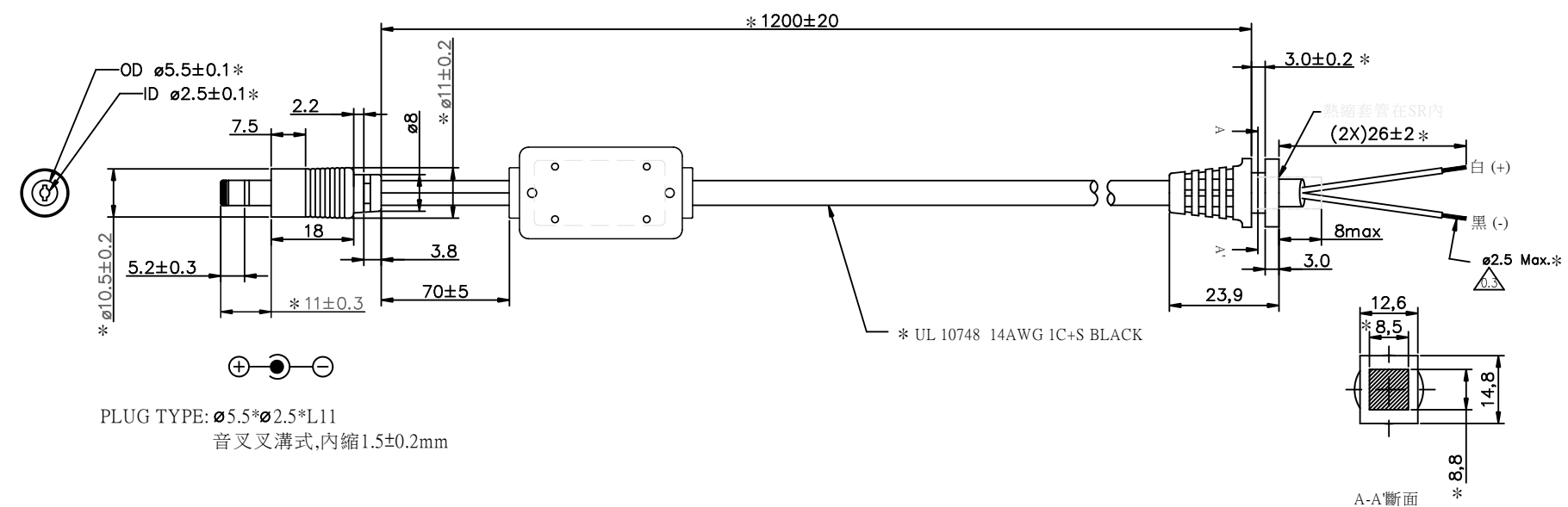
UL 10748 14AWG*1C+S BLACK



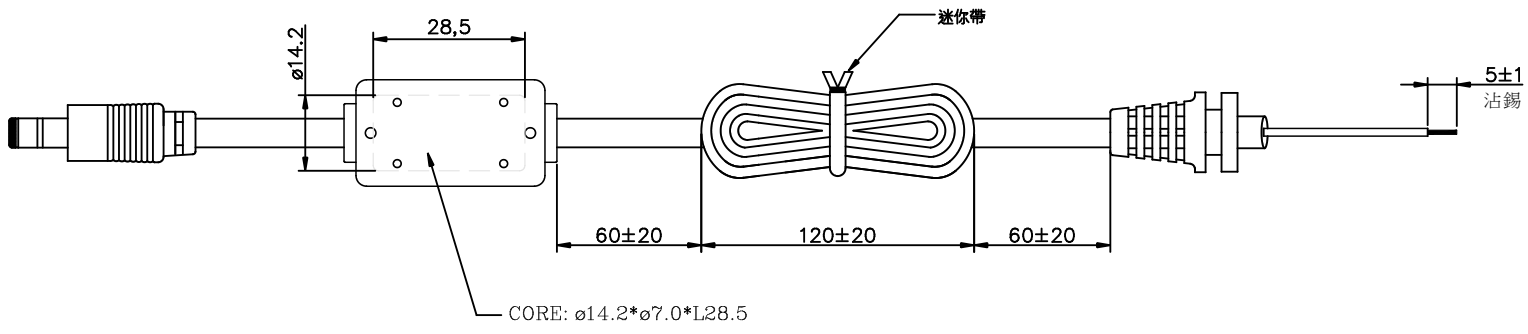
NOTES:

1. CASE & CABLE COLOR : BLACK
2. INLET:
3. CABLE SPEC.:CABLE ARE UL 10748 14AWG*1C+S BLACK
4. MODEL:G99-ABU120H-N001
5. PART NO.:G18-B3W112A-M600

1 2 3 4 5 6



PLUG TYPE: $\phi 5.5 \times \phi 2.5 \times L11$
音叉叉溝式, 內縮 $1.5 \pm 0.2 \text{mm}$



CORE: $\phi 14.2 \times \phi 7.0 \times L28.5$

註:
1. PLUG 需耐10A, 深圳泰及電子有限公司 NUMBER SF552250240-01 5.5X2.5X24音叉長叉溝, 或同等級.

環保材料標準:				SHEET METAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)			0.1 新製		REV.		DESCRIPTION	
No	有害物質名稱	含量標準		DIMENSION	PIERCING	BENDING	ANGULAR			UNIT: mm	MODEL NO.: CAD120121	
1	鎘 (Cd)	<75ppm		X < 8	±0.1	±0.15	±0.3*			MATERIAL	PART NO.: G18-B3W112A-M600	
2	鉛 (Pb)	<800ppm		8 ≤ X < 25	±0.1	±0.2	±0.5*				DRAWING NO.: DC CABLE	
3	汞 (Hg)	<800ppm		25 ≤ X < 100	±0.15	±0.25	±0.5*	APPROVED	CHECKED	DESIGNED	10748-14-1200-01-01 (BOSCTECH)	
4	六價鉻 (Cr ⁶⁺)	<800ppm		100 ≤ X < 300	±0.2	±0.3	±1*	Tiger	LED Huang	Jimmy	SCALE: <i>[Signature]</i>	
5	多環聯苯 (PBB)	<800ppm		300 ≤ X < 800	±0.3	±0.5	±1.5*	DATE: 2013-10-14	DATE: 2013-10-14	DATE: 2013-10-14	SHEET M/	
6	多溴二苯醚 (PBDE)	<800ppm									THIRD ANGLE PROJECTION	
7	鎘, 鉛, 汞, 六價鉻 (包裝材料)	總含量 < 100ppm									1 OF 1 A3	

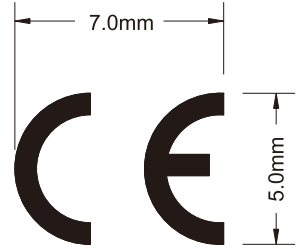
標註 "*" 為 IQC 必須檢驗的尺寸或內容.

A

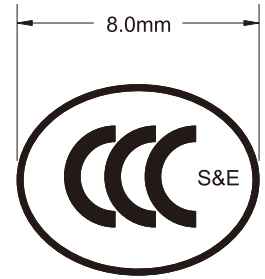
B

C

D



MIN. DIMENSIONS OF MARKS ON LABEL



CCC Mark SCALE2:1

NOTES:

1. MATERIAL:
ENVIRONMENT PROTECTION SYNTHESIS PAPER #50(FOGGY) WITH ADHESIVE ON THE BACK.
THE BACK ADHESIVE MUST CONFORM TO THE UL REQUIREMENT.
THE LABEL IS NOT ALLOWED TO CURL UPWARDS OR WINKLE AT 80 C FOR 2 HOURS.
2. PRINTED:
WHITE BACKGROUND WITH BLACK CHARACTERS.
3. Factory ID (製造廠代碼): G (貴冠廠)
4. SURFACE TREATMENT (表面處理): DUMB FILM (啞膜).

環保材料標準:

No	有害物質名稱	含量標準	SHEET METAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)			
1	鎘 (Cd)	< 75 ppm				
2	鉛 (Pb)	< 800 ppm	DIMENSION	PIERCING	BENDING	ANGULAR
3	汞 (Hg)	< 800 ppm	X < 8	± 0.1	± 0.15	± 0.3°
4	六價鉻 (Cr ⁶⁺)	< 800 ppm	8 ≤ X < 20	± 0.1	± 0.2	± 0.5°
5	多溴聯苯 (PBB)	< 800 ppm	25 ≤ X < 100	± 0.15	± 0.25	± 0.5°
6	多溴二苯醚 (PBDE)	< 800 ppm	100 ≤ X < 300	± 0.2	± 0.3	± 1°
7	鎘,鉛,汞,六價鉻,(包裝材料)	總含量 < 100 ppm	300 ≤ X < 800	± 0.3	± 0.5	± 1.5°

01 新製				DESCRIPTION			
REV.				UNIT: mm		MODEL NO.: 2ABU120F	
橋威科技				MATERIAL		PART NO.:	
				DRAWING NO.: LABEL-2ABU120F-01			
APPROVED	SAFETY	CHECKED	DESIGNED	SCALE:	SHEET	M	
ERIC	JESSE	ERIC	YL WANG	THIRD ANGLE PROJECTION	1 OF 1	A4 L	
DATE: Jan.11.15	DATE: Jan.11.15	DATE: Jan.11.15	DATE: Jan.11.15				

1

2

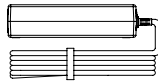
3

4

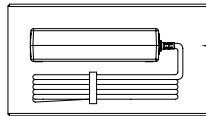
5

6

STEP1:將成品及線材整理如下圖,

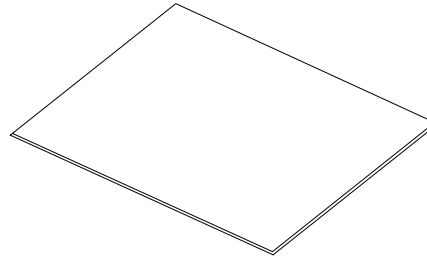
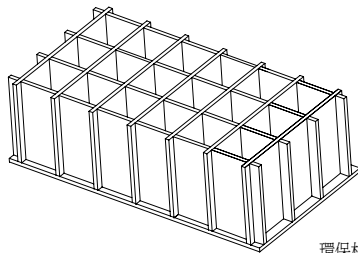
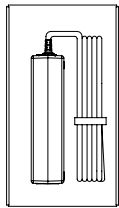


STEP2:將成品放入PE袋內如下圖,

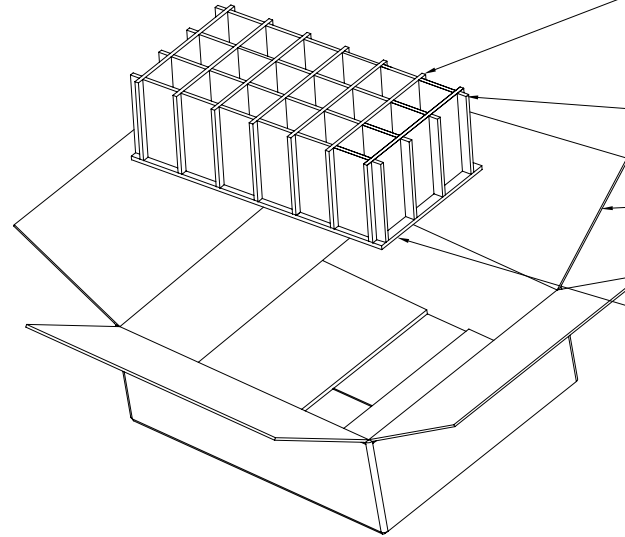


4

STEP3:將成品如圖般放入格板內



1



2

3

5

1

1.組件:

1.1.:隔板:

用量:2PCS

1.2.:四刀卡:

用量:7PCS

1.3.:七刀卡:

用量:4PCS

1.4.:PE袋:

用量:18PCS

1.5.:外箱:

用量:1PCS

外箱尺寸 450*400*240mm

QTY.: 18PCS

環保材料標準:

No	有害物質名稱	含量標準	SHEET METAL TOLERANCE (UNLESS OTHERWISE SPECIFIED)			
			DIMENSION	PIERCING	BENDING	ANGULAR
1	鎘 (Cd)	<75ppm				
2	鉛 (Pb)	<800ppm				
3	汞 (Hg)	<800ppm	X < 8	±0.1	±0.15	±0.3°
4	六價鉻 (Cr)	<800ppm	8 ≤ X < 25	±0.1	±0.2	±0.5°
5	多溴聯苯 (PBB)	<800ppm	25 ≤ X < 100	±0.15	±0.25	±0.5°
6	多溴二苯醚 (PBDE)	<800ppm	100 ≤ X < 300	±0.2	±0.3	±1°
7	鎘,鉛,汞,六價鉻(包裝材料)	總含量<100ppm	300 ≤ X < 800	±0.3	±0.5	±1.5°

0.1

REV.



僑威科技

UNIT: mm

MATERIAL

DESCRIPTION

MODEL NO.: ABU

PART NO.: 450-400-240-01

DRAWING NO.:

APPROVED

CHECKED

DESIGNED

DATE: 2015.12.23

DATE: 2015.12.23

DATE: 2015.12.23

SCALE: 1:1

THIRD ANGLE PROJECTION

SHEET 1 OF 1

M/A4L



접수번호 : 20151127-0005

전기용품안전인증서 Electrical Appliances Safety Certificate

안전인증번호: HU10587-15039A
(Certificate No.)

제조업자명: Channel Well Technology (Guangzhou) Co., Ltd.
(Manufacturer)

대표자명: Pan junwei
(President)

제조공장의 주소: Bldg.B, Eastern Hi-tech Industrial Base, Zengjiang Street, Zengcheng,
(Factory Address) Guangzhou, Guangdong Province, P.R. China

제품명: 직류전원장치
(Product)

기본모델명: 2ABU120F
(Basic Model)

정격: 100-240V~, 50/60 Hz, 2.0 A (O/P: 12 Vdc, 10 A)
(Rating)

파생모델명 (Series Model):

적용기준: K 60950-1(2011-12)
(Standard)

「전기용품안전 관리법 시행규칙」 제6조제2항에 따라 위의 전기용품에 대하여 안전인증서를 발급합니다.
We issue this Electrical Appliances Safety Certificate for the above electrical appliance in accordance with the Article 6(2) of the Enforcement Rule of the Electrical Appliances Safety Control Act.



2015 년 12 월 18 일
(Year) (Month) (Day)

한국기계전기전자시험연구원
Korea Testing Certification



※ 이 인증서는 「전기용품안전 관리법」에 따른 전기용품 안전성 확인에 한정된 것이며, 그 밖의 다른 법률이 적용되는 제품의 경우에는 해당 법률에 따라 추가로 인증·허가 등을 받아야 합니다.

- 첨부서류
1. 안전관리부품 및 재질목록 (List of Critical Components)
 2. 기본모델·파생모델의 내용 (Descriptions of the basic and series model)
 3. 전기용품 안전인증의 변경 현황 (Revisions Status)





Ref. Certif. No.

US-TUVR-9262

IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME

SYSTEME CEI D' ACCEPTATION MUTUELLE DE CERTIFICATS D'ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC

CB TEST CERTIFICATE

CERTIFICAT D'ESSAI OC

Product
Produit

AC Adapter

Name and address of the applicant
Nom et adresse du demandeur

Channel Well Technology Co., Ltd.
No.222, Sec. 2, Nankan Rd.
Lujhu Township, Taoyuan Hsien 33855
Taiwan

Name and address of the manufacturer
Nom et adresse du fabricant

same as applicant

Name and address of the factory
Nom et adresse de l'usine

Channel Well Technology (Guangzhou) Co., Ltd.
Zengjiang Street Bld B, Eastern Hi-Tech Industrial Base
511300 GUANGZHOU, ZENGCHENG
CHINA

Note: When more than one factory, please report on page 2
Note: Lorsque il y plus d'une usine, veuillez utiliser la 2^{ème} page

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

AC 100-240V, 50/60Hz; Class I
1) 1.5A; 2) 1.5A; 3) 2.0A
Output Ratings: see associated test report

Trademark (if any)
Marque de fabrique (si elle existe)

CWT

Model / Type Ref.
Ref. De Type

1) 2ABPXXXYzzzzz, 2) 2AALXXXYzzzzz
(XXX = 080, 084, 090; Y = F, K, M, R; z = 0-9, A-Z, "-", blank)
3) 2ABUXXXYzzzzz
(XXX = 120, 130; Y = F, H, K, M, R, S, z = 0-9, A-Z, "-", blank)

Additional information (if necessary, may also be reported on page 2)
Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2^{ème} page)

Complies with requirements as well as group and national differences where applicable for AT, DK, GB, IT, SE, and US.

A sample of the product was tested and found to be in conformity with IEC
Un échantillon de ce produit a été essayé et a été considéré conforme à la CEI

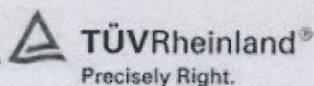
IEC 60950-1+Amd1+Amd2

2nd Edition (2005)

As shown in the Test Report Ref. No. which forms part of this Certificate
Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat

31583331.001

This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification



Date: November 10, 2015

Page 1 of 1

Signature:

Martin Glagla



CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

CERTIFICATE OF EMC

CERTIFICATE NO.: SET2015-15947

Product: AC Adaptor
Model: 2ABUXXXYzzzzz (XXX=120, 130, Y=F, H, K, M, R, S, z=0-9, A-Z hyphen or blank)
Applicant: CHANNEL WELL TECHNOLOGY CO., LTD.
Address: No.222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan Hsien,

This is to certify that, on the basis of the tests undertaken as per Report No. **SET2015-15947**, the submitted sample of the above item complies with:

EN 55022:2010
EN 55024:2010
EN 61000-3-2:2014
EN 61000-3-3:2013

and fulfils testing requirement of the EMC directive 2014/30/EU



Signed for and on behalf of
CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Wu Li An, Vice Director

Date of Issue: Nov. 09. 2015

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Jiedao, Nanshan District, 518055

Shenzhen, Guangdong, China

Tel: 86-755-26627338 Fax: 86-755-26627238 <http://www.ccic-set.com>



NOTICE OF COMPLETION
AND
AUTHORIZATION TO APPLY THE UL MARK

12/08/2015

Channel Well Technology Co Ltd
Shawn Chen
222 Sec 2 Nankan Rd
Lujhu Township
Taoyuan Hsien 33855, Tw

Our Reference: File E161451, Vol. X1 Project Number 4787150740
Your Reference: CWTUSA168804
Project Scope: UL/cUL: ITE Component Power Supplies, Add Model Series 2ABUxxxYzzzzz: (E161451-A110)

Dear Shawn Chen:

Congratulations! UL's investigation of your product(s) has been completed under the above Reference Number and the product was determined to comply with the applicable requirements. This letter temporarily supplements the UL Follow-Up Services Procedure and serves as authorization to apply the UL Mark at authorized factories under UL's Follow-Up Service Program. To provide your manufacturer(s) with the intended authorization to use the UL Mark, you must send a copy of this notice to each manufacturing location currently authorized under File E161451, Vol. X1.

Records in the Follow-Up Services Procedure covering the product are now being prepared and will be sent in the near future. Until then, this letter authorizes application of the UL Mark for 90 days from the date indicated above.

Additional requirements related to your responsibilities as the Applicant can be found in the document "Applicant responsibilities related to Early Authorizations" that can be found at the following web-site:

<http://www.ul.com/EAResponsibilities>

Any information and documentation provided to you involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL.

We are excited you are now able to apply the UL Mark to your products and appreciate your business. Feel free to contact me or any of our Customer Service representatives if you have any questions.

Very truly yours,

Robert J. Leon
408-754-6641
Senior Project Engineer
Robert.J.Leon@ul.com

Reviewed by:

Bruce A. Mahrenholz
847-664-3009
CPO Director
Bruce.A.Mahrenholz@ul.com

NBKBC9C-168AF6



CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

FCC VERIFICATION

CERTIFICATE NO.: SET2015-16023

Product: AC Adaptor
Model: 2ABUXXXYzzzzz (XXX=120, 130, Y=F, H, K, M, R, S,
z=0-9, A-Z hyphen or blank)
Applicant: CHANNEL WELL TECHNOLOGY CO., LTD.
Address: No.222, Sec. 2, Nankan Rd., Lujhu Township, Taoyuan
Hsien,

This is to certify that, on the basis of the tests undertaken as per
Report No. **SET2015-16023**, the submitted sample of the above
item complies with:

FCC PART 15 Subpart B

Signed for and on behalf of
CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Wu Li An, Vice Director

Date of Issue: Nov. 09. 2015

CCIC Southern Electronic Product Testing (Shenzhen) Co., Ltd.

Electronic Testing Building, No. 43 Shahe Road, Xili Jiedao, Nanshan District, 518055

Shenzhen, Guangdong, China

Tel: 86-755-26627338 Fax: 86-755-26627238 <http://www.ccic-set.com>

Zertifikat *Certificate*



Zertifikat Nr. *Certificate No.* Blatt *Page*
S 72152871 0001

Ihr Zeichen *Client Reference* Unser Zeichen *Our Reference* Längstens gültig bis *Latest expiration date*
Shawn Chen -JA- 31583331 002 20.06.2019 (day/mo/yr)

Genehmigungsinhaber *License Holder* Fertigungsstätte *Manufacturing Plant*
Channel Well Technology Co., Ltd. Channel Well Technology
No.222, Sec. 2, Nankan Rd. (Guangzhou) Co., Ltd.
33855 Lujhu Township, Taoyuan Hsien Zengjiang Street Bld B,
Taiwan - R.O.C. Eastern Hi-Tech Industrial Base
511300 Guangzhou, Zengcheng
China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 60950-1:2006+A11+A1+A12+A2
AfPS GS 2014:01 Par. 3.1

Zertifiziertes Produkt *(Geräteidentifikation)*
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Netzgerät AC Adaptor

Bezeichnung *(Model Designation)*:

- 1) 2ABPXXXZzzzzzz, 2) 2AALXXXZzzzzzz 7
(XXX= 080, 084, 090; Y= F, K, M, R;
z= 0-9, A-Z, "-", Leerstelle/blank);
3) 2ABUXXXZzzzzzz
(XXX= 120, 130; Y= F, H, K, M, R, S;
z= 0-9, A-Z, "-", Leerstelle/blank)

Nennspannung *(Rated Voltage)*: AC 100-240V, 50/60Hz
Nennstrom *(Rated Current)*: 1),2) 1,5A; 3) 2,0A
Schutzklasse *(Protection Class)*: I
Ausgangswerte *(Output Ratings)*:
siehe Anlage *(Aufbauübersicht)* /
see Appendix *(Constr. Data Form)*

ANLAGE *(Appendix)*: 1, 1-25

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Produkt und Fertigungsstätte erfüllen § 20 und § 21 des
Produktsicherheitsgesetzes.
*This certificate is based on our Testing and Certification Regulation.
Product and production fulfill par § 20 and § 21 of the
Product Safety Law.*

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg
Tel.: +49 221 806-1371 e-mail: cert-validity@de.tuv.com
Fax: +49 221 806-3935 http://www.tuv.com/safety



M. Glagla
Dipl.-Ing. M. Glagla

Ausstellungsdatum *Date of Issue*: 21.12.2015 (day/mo/yr)



經濟部標準檢驗局

BUREAU OF STANDARDS, METROLOGY AND INSPECTION,
MINISTRY OF ECONOMIC AFFAIRS



商品驗證登錄證書

CERTIFICATE OF THE REGISTRATION OF PRODUCT CERTIFICATION

證書號碼： CI434060161503 號 00

Certificate No.

茲據 僑威科技股份有限公司

申請驗證登錄，經審查結果符合規

定，准予登錄並使用商品安全標章及識別號碼：

R43016

。其登錄事項如下：

The application made by

for Registration of Product

Certification has been reviewed and found to be in compliance with related regulations. Therefore, registration is granted with the

Product Safety Mark and the Identification No.

R43016

. Details of the registration are follows :

申請人：僑威科技股份有限公司

統一編號：84573516

Applicant

Uniform No.

地址：桃園市蘆竹區南崁路2段222號

Address

生產廠場：廣州貴冠科技有限公司

Factory

廠址：中國廣東省廣州市增城市增江街東區高科技工業基地B棟

Factory Address

商品種類名稱：

Type/name of product

商品分類號列：8504.40.20.00.3

C. C. C Code

中文名稱：電源供應器

Chinese name

英文名稱：

English name

型式：2ABU120F

Type

系列型式：空白

Series of the type

依據標準：CNS14336-1 (099/09/30年版)、CNS13438 (095/06/01年版)

Standards

標準檢驗局或所屬分局發證 (發證地址：100臺北市中正區濟南路1段4號)
(本證書經驗證機關使用鋼印後生效)

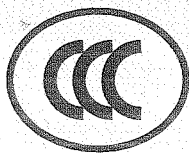
This certificate is issued by the BSMI. (No. 4, Sec. 1, Jinan Rd., Zhongzheng Dist., Taipei City 100, Taiwan)

(This certificate will become effective only when stamped with the BSMI seal.)

登錄日期：中華民國	104	年	12	月	15	日
Registration Date	2015	(year)	12	(month)	15	(day)
本證書有效期限至	107	年	12	月	14	日
Expiration Date	2018	(year)	12	(month)	14	(day)
發證日期：中華民國	104	年	12	月	15	日
Date of issue	2015	(year)	12	(month)	15	(day)

註1：持本證書進口驗證登錄商品時，進口人須與本證書名義人相同。

註2：次年度商品驗證登錄年費繳納期限為當年11月30日，逾期未繳納者，經限期繳納屆期未繳納，即依商品檢驗法第42條第7款規定廢止驗證登錄，並自次年度1月1日起生效。



中国国家强制性产品认证证书

证书编号: 2015010907828966

委托人名称、地址

侨威科技股份有限公司
台湾桃园县芦竹乡长兴村南崁路二段222号

生产者(制造商)名称、地址

侨威科技股份有限公司
台湾桃园县芦竹乡长兴村南崁路二段222号

生产企业名称、地址

广州贵冠科技有限公司
广州市增城市增江街东区高科技工业基地B栋

产品名称和系列、规格、型号

电源适配器

见附件(仅适用海拔5000米及以下地区安全使用)

产品标准和技术要求

GB4943.1-2011; GB9254-2008; GB17625.1-2012

上述产品符合强制性产品认证实施规则
CNCA-C09-01: 2014的要求, 特发此证。

发证日期: 2015年12月17日

有效期至: 2020年12月17日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书的相关信息可通过国家认监委网站www.cnca.gov.cn查询



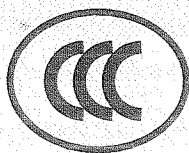
主任:

中国质量认证中心

中国·北京·南四环西路188号9区100070

<http://www.cqc.com.cn>





CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2015010907828966

NAME AND ADDRESS OF THE APPLICANT

CHANNEL WELL TECHNOLOGY CO., LTD
No. 222, Sec. 2, Nankan RD., Lujhu Township, Taoyuan, County 338, TAIWAN

NAME AND ADDRESS OF THE MANUFACTURER

CHANNEL WELL TECHNOLOGY CO., LTD
No. 222, Sec. 2, Nankan RD., Lujhu Township, Taoyuan, County 338, TAIWAN

NAME AND ADDRESS OF THE FACTORY

Channel Well Technology (Guangzhou) Co., Ltd.
Bld. B, Eastern Hi-tech Industrial Base, Zengjiang Street, Zengcheng,
Guangzhou, Guangdong Province China.

NAME, MODEL AND SPECIFICATION

AC Adapter

见附件（仅适用海拔5000米及以下地区安全使用）

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB4943.1-2011;GB9254-2008;GB17625.1-2012

This is to certify that the above mentioned products have met the requirements of implementation rules for compulsory certification(REF NO. CNCA-C09-01:2014).

Date of issue: Dec. 17, 2015 Date of expiry: Dec. 17, 2020

Validity of this certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

This certificate can be verified through CNCA's website: www.cnca.gov.cn



President:

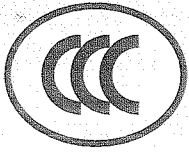
Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

Section 9, No. 188, Nansihuan Xilu, Beijing 100070 P.R. China

<http://www.cqc.com.cn>





中国国家强制性产品认证证书

附录:

第 1 页 共 1 页

证书编号: 2015010907828966

纸号: 1292366

型号: 2ABUXXXYZzzzzz; 其中“XXX”可为 120、130 表示最大输出功率; “Y”可为 F、H、K、M、R、S 表示输出电压; “z”可为 0-9、A-Z、连接符或空白,代表市场目的,不影响安全和 EMC 性能。

输入: 100-240V ~ 50/60Hz 2.0A

产品型号	输出电压(V)	输出电流(A)	最大输出功率(W)
2ABU120Fzzzzz	12	10	120
2ABU120Hzzzzz	15	8	120
2ABU120Kzzzzz	19	6.32	120
2ABU120Mzzzzz	24	5	120
2ABU120Rzzzzz	48	2.5	120
2ABU120Szzzzz	54	2.22	120
2ABU130Mzzzzz	24	5.4	130

注: 此附录与证书同时使用时有效。



主任:

中国质量认证中心

中国·北京·南四环西路 188 号 9 区 100070

<http://www.cqc.com.cn>



Supplier's declaration for use of the regulatory compliance mark

Supplier Details

We **ICAL & TRADING CO**
of **Unit 125/100 Plenty Road, Preston, VIC, 3072**
RCM Supplier Code **N5586 / ERAC Registration No. E425**

declare under our sole responsibility, that the products described below

Product	Trade Name	Model Number
AC Adaptor	CWT	2ABUXXXYzzzzz

XXX=120, 130; Y=F, H, K, M, R, S; zzzzz-0-9, A-Z, "-" or blank

Complies with the requirements described in Part 1 and the following parts of AS/NZS 4417 and the EMC standard(s) listed below.

Part 2 Electrical Safety

TUV Rheinland Certificate No. AZ 69020555

Authorised Marking: TUV020555EA

Part 3 Electromagnetic Compatibility

EN 55022:2010

Qingyan Zhu

(NAME OF THE AUTHORIZED PERSON)

Owner

(POSITION IN COMPANY)

05.12.2015

(Date)

適合同等証明書

Certificate of Conformity



証明書番号 Certificate No.

JD 50326341

ページ Page

1

申請者照会番号 Applicant Reference

144075384

検査機関照会番号 Our Reference

01-HURACHEL- 14041611 001

発行年月日 Date of Issue

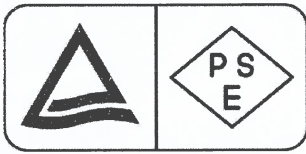
2015年12月18日

申請者 Applicant

Channel Well Technology (Guangzhou) Co., Ltd.
Bld. B, Eastern Hi-tech Industrial Base, Zengjiang Street,
Zengcheng, Guangzhou, Guangdong 511300, P.R. China

製造工場 Manufacturing Plant

Channel Well Technology (Guangzhou) Co., Ltd.
Bld. B, Eastern Hi-tech Industrial Base, Zengjiang Street,
Zengcheng, Guangzhou, Guangdong 511300, P.R. China



検査の方法 Inspection Method

- ・技術上の基準を定める省令の解釈 別表第十二： J60950-1(H26), J55022(H22), J3000(H25)
Interpretation on Ministerial Ordinance establishing Technical Requirements Appendix 12: J60950-1(H26), J55022(H22), J3000(H25)
- ・施行規則別表第四（交流用電気機械器具）
Appendix 4 of the Enforcement Regulations (AC Electrical Appliances)

特定電気用品名

Name of Specified Electrical
Appliance and Material

： 直流電源装置

DC Power Supply Unit

型式の区分

Type Classification

：（「添付 1.0」参照）

(Refer to "Attachment 1.0")

証明書の有効期間

Validity of Certificate

： 本証明書は、施行令で規定された期間である 2020 年 12 月 17 日まで有効です。

This certificate is effective until 17. 12. 2020, being the period stipulated by the Enforcement Ordinance.

電気用品安全法第 8 条第 1 項に規定する技術基準及び同法第 9 条第 2 項の経済産業省令で定める基準（法第 9 条第 1 項第 2 号に係る検査に係るものに限る）に適合していることを証明します。

This is to certify that the above-mentioned Specified Electrical Appliances and Materials complies with the technical requirements stipulated in Paragraph 1 of Article 8 of Electrical Appliances and Materials Safety Act (here under referred to as the Act) and the requirements defined by the ordinance of the Ministry of Economy, Trade and Industry based on Paragraph 2 of Article 9 of the Act (limited to Item 2 of Paragraph 1 of Article 9 for Inspection of the Act).

注意事項 Notes

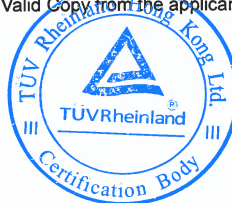
- (1) この適合同等証明書は、提出された試験用の電気用品に関して評価を行った上で交付したものであり、同一の型式の区分にある電気用品について電気用品安全法第 8 条第 1 項に規定する技術基準適合確認の義務を履行したことを示すものではありません。
This Certificate of Conformity is issued only for those submitted test samples that are in conformity with Technical Requirements. It does not mean, for electrical products within the same classification, that the manufacturer has fulfilled the obligation to be in compliance with the technical standards specified based on Article 8, Item 1 of the Electrical Appliance and Material Safety Act.
- (2) この適合同等証明書は、別紙に記載されている型式の区分の範囲内及び区分の組み合わせについてのみ有効です。
This Certificate of Conformity is valid only in conjunction with type classification sheet(s) specified as attached.

注記：本「写し」は、電気用品安全法施行規則第十三条第一号に基づき上記申請者の申請を受けて交付するものであり、本写しを申請者から受け取る輸入事業者は同法の要件を遵守しなければならない。

NOTE: This Authorized Valid Copy is issued by receiving an application from the above applicant in accordance with Article 13, Item 1 of the Enforcement Regulations of Electrical Appliance and Material Safety Act. The Importer receiving this Authorized Valid Copy from the applicant shall comply with the requirements of the said Act.

テュフ ラインランド 香港リミテッド
TÜV Rheinland Hong Kong Ltd.

ゴールドフィンancialグローバルスクエア 8-10 F、
7 ワンタイロード、クワンベイ、クワン、香港
8-10 Floor, Goldin Financial Global Square,
7 Wang Tai Road, Kowloon Bay, Kowloon, Hong Kong



発行者 Issued by

氏名 Name Thomas Berns

添付 Attachment : 1.0

発行日 Date of Issue : 2015 年 12 月 18 日

【型式の区分 Type Classification】

型式区分管理 No: (Type Classification Control No.) : CL-01

証明書番号 (Certificate No.) : JD 50326341

特定電気用品名 : 直流電源装置
 (Name of Specified Electrical Appliance and Material) DC Power Supply Unit

申請者 (Applicant) : Channel Well Technology (Guangzhou) Co., Ltd.
 Bld. B, Eastern Hi-tech Industrial Base, Zengjiang Street,
 Zengcheng, Guangzhou, Guangdong 511300, P.R. China

要素 Factor	区分 Classification
定格入力電圧 (Rated input voltage)	125V 以下のもの及び 125V を超えるもの (125V or less, and exceeding 125V)
入力側の定格容量 (Rated input capacity)	90VA を超え 100VA 以下のもの 及び 100VA を超え 200VA 以下のもの (Exceeding 90VA, and less than or equal to 100VA, & Exceeding 100VA, and less than or equal to 200VA)
定格周波数 (変圧器を有するものの場合に限る。) (Rated frequency (limited to those with transformer))	50Hz のもの 及び 60Hz のもの (50Hz, and 60Hz)
交流用端子 (AC Terminal)	ないもの (Without AC terminal)
直流定格電圧 (Rated DC voltage)	15V 以下のもの (15V or less)
変圧器 (Transformer)	あるもの (With transformer)
変圧器の巻線の絶縁の種類 (Transformer winding insulation class)	B 種のもの (Class B)
直流電圧の調整装置 (DC voltage adjusting mechanism)	ないもの (Without adjusting mechanism)
回路の保護機構 (Circuit protection device)	あるもの (With circuit protection device)
器体スイッチ (Body switch)	ないもの (Without body switch)
器体スイッチの操作の方式 (Switching operation of body switch)	—
器体スイッチの接点の材料 (Body switch contact material)	—
外郭の材料 (Outer case material)	合成樹脂のもの (Plastic)
用途 (Application)	電池充電用のもの 及び その他のもの (For battery charging and others)
電源電線と器体との接続の方式 (Method of attaching power supply cord)	接続器利用のもの (Coupling device)
二重絶縁 (Double insulation)	施してないもの (Without double insulation)

テュフ ラインランド 香港 リミテッド
 TÜV Rheinland Hong Kong Ltd.

ゴールドフィンancialグローバルスクエア 8-10F
 7 ワンタイロード、クロンベイ、
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