



全漢企業股份有限公司

FSP TECHNOLOGY INC

台灣桃園市建國東路22號
Tel:886-3-375-9888
<http://www.fsp-group.com.tw>

No.22, Jianguo E, Rd., Taoyuan City,
Taiwan, R.O.C.
Fax:886-3-375-6966
Email:sales@mail.fsp-group.com.tw

Switching Power Supply Approval Sheet

Customer : 研揚科技股份有限公司
Model Number : FSP120-AHAN3
Spec : 120W, ADAPTER
SPI P/N : 9NA1206701
Customer P/N : 1255201200
Remark : ROHS 機種

Item	Contents
01	Mechanical Drawing
02	Specification
03	Safety Certificates

Date:2020/1/13 REV: 0



全漢企業股份有限公司

FSP TECHNOLOGY INC

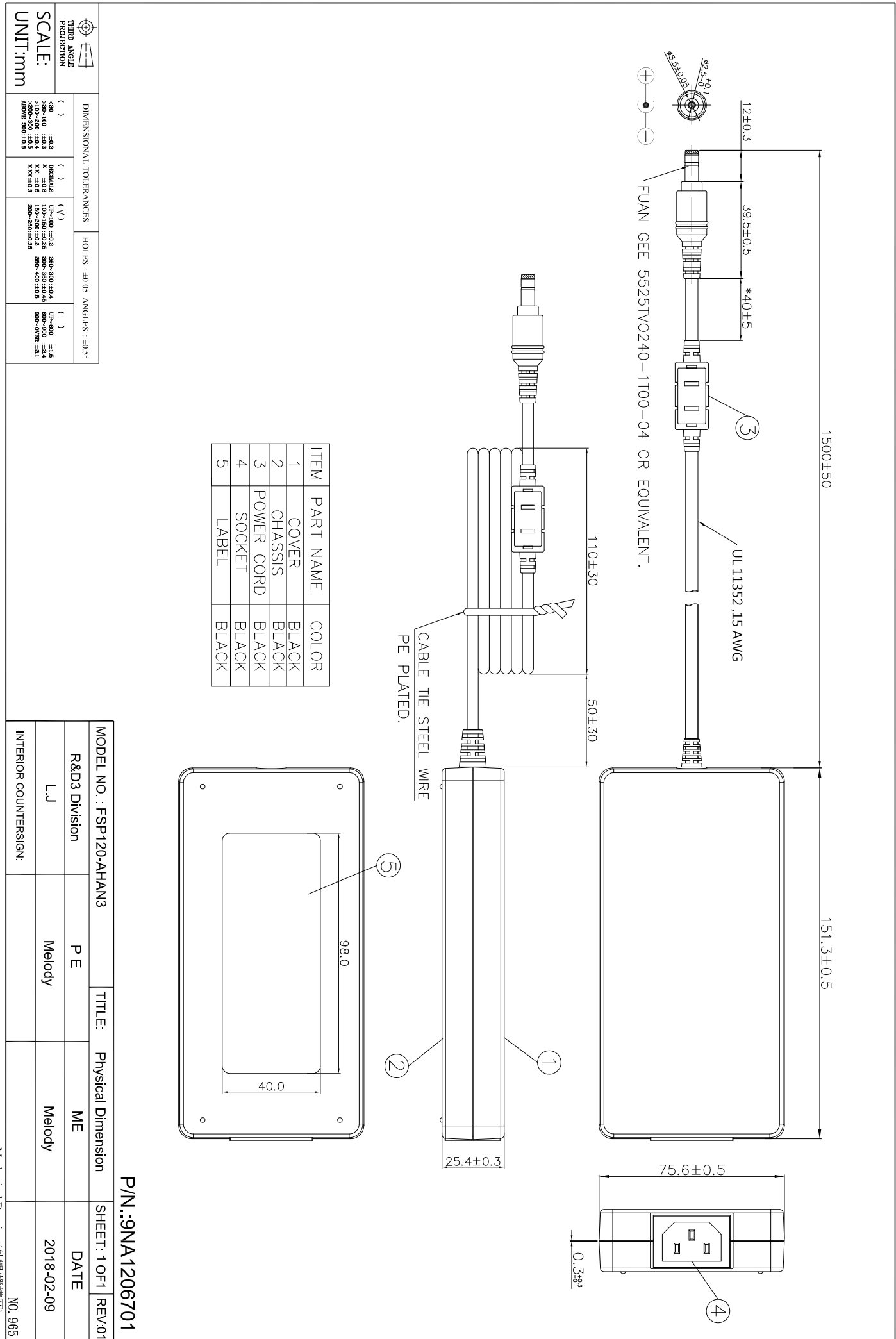
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Email:sales@mail.fsp-group.com.tw

MODEL: FSP120-AHAN3/9NA1206701

Revision History

Rev.	Description	Date
0	Approval sheet	2018/3/16
1	Label 需符合最新歐盟規範(大標需加註--輸出瓦數 & 輸出電壓 & 輸出電流至小數點第一位)	2020/1/13





SPECIFICATION

AC Adapter

FSP120-AHAN3

P.E	R/D	APPROVED	REV.
Zhiling Guo	Stephen Li	LJ Wei	01



Electrical Specification

History

REV.	Description	Date	Drawn	Mechanical	Electrical	Approved
<u>00</u>	SPEC ISSUE	July.14'17	Vivian	Zhiling Guo	Stephen Li	LJ Wei
<u>01</u>	Add : 1.11 Power Factor 1.12 Brown-in / out 1.13 Line Voltage Surge 1.14 Line Voltage Sag 2.10 Capacitance Load 2.11 Loop Gain Margin 3.5 No Load Protection 4.11 Temperature(2) 4.12 Altitude 4.13 MTBF 4.14 E-cap life 4.15 Radio-Frequency Electromagnetic Field 4.16 Conducted Radio Frequency Disturbances Test 4.17 Power frequency magnetic field immunity test 4.18 Voltage Dips / Interruption test 4.19 Voltage fluctuations & flicker test Revise : 1.8 Inrush Current 2.4 Output Voltage Ripple and Noise 2.5 Turn-On Delay Time 2.6 Hold Up Time 2.7 Rise Time 2.8 Dynamic Load Change 2.9 Overshoot 3.3 Over Power Protection 3.4 Over Temperature Protection 4.5 EMI: Adapter comply with the following national standards 4.10 Humidity	Jun.19'19	Vivian	Zhiling Guo	Stephen Li	LJ Wei



Electrical Specification

Electrical Requirements

1. Input Characteristics:

ITEM	CONDITION	SPECIFICATION
1.1 Rated Input Voltage:		100Vac~240Vac
1.2 Input Voltage Range:		90Vac to 264Vac
1.3 Input Frequency Range:		47Hz to 63Hz (± 1Hz)
1.4 Input Current:	100Vac, 240Vac / 10A load	≤ 2A
1.5 Input Current Harmonic:		IEC61000-3-2
1.6 Efficiency: (Warm up 10minutes later)	100Vac / 10A load 240Vac / 10A load	≥ 87% ≥ 88%
1.7 Power Saving:	115Vac, 230Vac / 20.8mA load(0.25W)	≤ 0.5W
1.8 Inrush Current:	264Vac / 10A load	≤ 200A
1.9 DOE(Level VI):	(1)115Vac / 0A load (2)115Vac / 25%,50%,75%,100% load (Average Active Mode Efficiency ,Warm up 30 minutes later)	≤ 0.21W ≥ 88% (DC Cable ≤ 1500 mm,15AWG)
1.10 Erp(Tier 2):	(1)230Vac / 0A load (2)230Vac / 25%,50%,75%,100% load (Average Active Mode Efficiency ,Warm up 30 minutes later)	≤ 0.15W ≥ 89% (DC Cable ≤ 1500 mm,15AWG)
1.11 Power Factor:	At 115 Vac / 60Hz, 230 Vac / 50Hz, 10A load	> 0.9
1.12 Brown-in / out:	Condition A: The input voltage decreases at a fixed rate, with 6V/minutes duration down to zero, then stays for while, and then recovers back at the same rate. Condition B: The input voltage decreases till the threshold where the PSU shuts down, then stays for while, and then recovers back to the initial AC line voltage level.	No damage
1.13 Line Voltage Surge:	264Vac to 293Vac for 500ms and back to 264Vac	No damage, no loss of function
1.14 Line Voltage Sag:	115Vac to 80Vac for 500ms and back to 115Vac 230Vac to 161Vac for 500ms and back to 230Vac	No damage, no loss of function



Electrical Specification

2. Output Characteristics:

※Measured at the end of DC cable.

ITEM	CONDITION	SPECIFICATION
2.1 Output Rated Voltage:		12V
2.2 Output Current:	at constant voltage mode	0A to 10A
2.3 Output Voltage Setting:	at the output end of DC cable	12V $\pm$ 5%
2.4 Output Voltage Ripple and Noise: (0.1uF Ceramic Cap. and 35V 47uF Aluminum Cap. Paralleled between the end of output cable, DC 20MHz Band-Width)	90Vac, 264Vac / 0%~15% load 90Vac, 264Vac / 16%~100% load	$\leq$ 350mVp-p $\leq$ 240mVp-p
2.5 Turn-On Delay Time:	At 90Vac, 264Vac / 0A~10A load, output voltage shall remain regulation	$\leq$ 3Sec
2.6 Hold Up Time:	At 90Vac, 264Vac / 0A~10A load, output voltage shall remain regulation	$\geq$ 16ms
2.7 Rise Time:	At 90Vac, 264Vac / 0A~10A load, DC output rise time from 5% to 95% of Vo	$\leq$ 50ms
2.8 Dynamic Load Change:	At 90Vac, 264Vac (1) Output load step is : 【1】 0 % ~50 % 【2】 50 %~100 % (2) S/R=0.5A/us (3) Frequency is 100Hz and 1KHz	12V $\pm$ 7%
2.9 Overshoot:	At 90Vac, 264Vac / 0A~10A load	12V $\pm$ 10%
2.10 Capacitance Load:	3300uF(MAX)	Normal operation shall be continued
2.11 Loop Gain Margin:	At 90Vac, 264Vac / 0A~10A load	Phase margin must be greater than 45deg Gain margin must be greater than -10dB



Electrical Specification

3. Protection Characteristics:

ITEM	CONDITION	SPECIFICATION
3.1 Short Circuit Protection:	When an internal fault occurs, or an external fault is applied to the power supply, such that an overload or short circuit is applied to the output, the power supply shall shut down and enter auto-recovery mode.	Shutdown and no damage
3.2 Over Voltage Protection:	The adapter will enter into shut down that means no output while over voltage happened at output terminal that caused by internal fault, the output trip voltage shall not exceed 19 volts. That will be return to normal state by AC reset.	Shutdown and no damage
3.3 Over Power Protection:	When an internal fault occurs, or an external fault is applied to the power supply, such that an overload or short circuit is applied to the output, the power supply shall shut down and enter auto-recovery mode.	(1)Shutdown and no damage (2) $\leq 16.5A$
3.4 Over Temperature Protection:	The power supply will enter into shut down while the abnormal thermal rise occurs. That will be return to normal state by AC reset.	No fire, no smoke, no damage
3.5 No Load Protection:	The power supply shall met all output requirements on no load condition.	No damage or hazardous condition will occur



Electrical Specification

4. Environmental Characteristics:

ITEM	CONDITION	SPECIFICATION
4.1 Electric Fast Transients: Refer to IEC61000-4-4	Impulse: $\pm 1\text{kV}$ applied to L,N	Normal operation shall be continued
4.2 Lightning Surge: Refer to IEC61000-4-5	$\pm 1\text{kV}$ applied differential mode	Normal operation shall be continued
	$\pm 2\text{kV}$ applied common mode	Normal operation shall be continued
4.3 Electron Static Discharge: (Refer to IEC61000-4-2 Energy Storage Capacitor 150pF; Discharge Resistor 330 Ω)	Air Discharge: $\pm 15\text{KV}$ Contact Discharge: $\pm 8\text{KV}$	Normal operation shall be continued
4.4 Cooling:	Natural air cooling	
4.5 EMI: Adapter comply with the following national standards: EMI Conducted Emission EMI Radiated Emission	1.Full Load 2. The power supply with internal filter can meet.	FCC PART 15B CLASS B CISPR32 EN55032 CLASS B VCCI LEVEL II Under -3dB
4.6 Safety conforming:		Regulated by customer
4.6.1 Energy-related Products 【ErP】 Department of Energy 【DOE】		Comply with ErP standard Comply with DOE standard
4.7 Leakage Current:	264Vac / 50Hz	$\leq 0.25\text{mA}$
4.8 Dielectric Strength: (Hi-Pot)	Between AC input and secondary applied DC 4242V / test time 1 minute / cut off current shall be less than 10mA	
4.9 Temperature(1):	Operating Storage	0 to 40°C -20 to +80°C
4.10 Humidity:	Operating Storage	10% ~ 90% 5% ~ 95%
4.11 Temperature(2):	Operating 115Vac or 230Vac (See Note page 8)	-20 to 40°C, 100% load 50°C, 85% load 60°C, 70% load 70°C, 55% load (Shall be less than the rating of adapter critical component , follow FSP specification (adapter))
4.12 Altitude:	Operating	5000M
4.13 MTBF:	115Vac, 230Vac / 10A load	100,000 hours at 25°C , MIL - HDBK 217F Notice2



Electrical Specification

4.14 E-cap life:	115Vac, 230Vac / 10A load	≥ 15,000 hours at 40°C
4.15 Radio-Frequency Electromagnetic Field: Refer to IEC61000-4-3	80 ~1000 MHz,3V/m,80% AM(1kHz)	Normal operation shall be continued
4.16 Conducted Radio Frequency Disturbances Test: Refer to IEC61000-4-6	0.15 ~ 80 MHz,3Vrms,80% AM(1kHz)	Normal operation shall be continued
4.17 Power frequency magnetic field immunity test: Refer to IEC61000-4-8	50 Hz,1A/m	Normal operation shall be continued
4.18 Voltage Dips / Interruption test: Refer to IEC61000-4-11	Voltage Dips: (1) >95% reduction for 0.5 period (2) 30% reduction for 25 period Voltage Interruptions: >95% reduction for 250 period	Performance Criterion B Performance Criterion C Performance Criterion C
4.19 Voltage fluctuations & flicker test: Refer to EN 61000-3-3		Meets the requirements



Electrical Specification

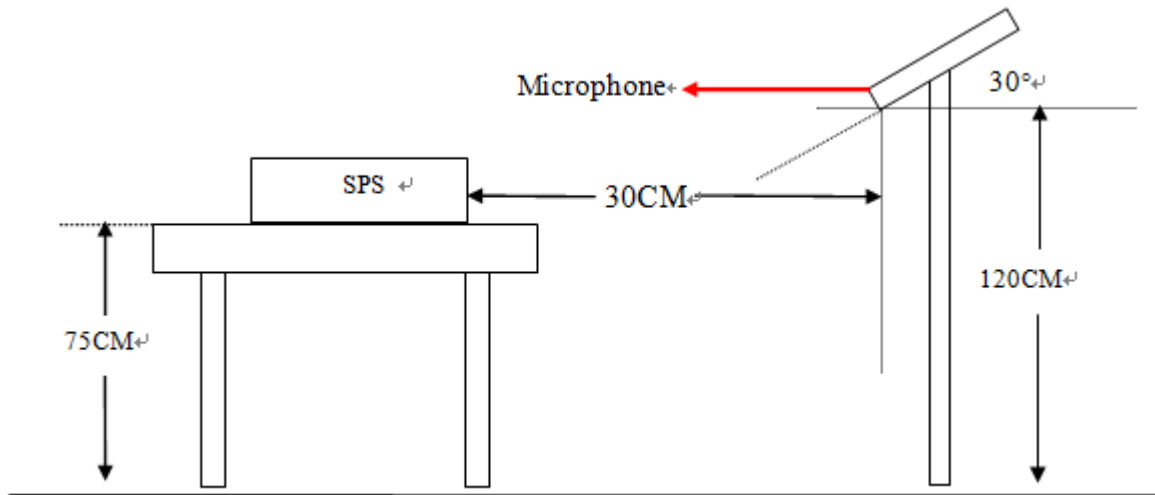
5. Mechanical Characteristics:

ITEM	CONDITION	SPECIFICATION
5.1 Dimension (Length x Width x Height):		151.3 X 75.6 X 25.4 mm
5.2 Adapter weight:		485g(typical)
5.3 Input AC socket Type:		IEC 320-C14 Type
5.4 Vibration Test:	(1) Non-operating, 0.01g ² /Hz at 5Hz slopping to 0.02g ² /Hz at 20Hz, And maintain 0.02g ² /Hz from 20Hz ~ 500Hz (2) PSD=3.13grms, 15 minutes/axis (3) Vibration duration:15minutes (4) Vibration waveform:Random (5) Force Direction X,Y,Z	Normal operation shall be continued.
5.5 Acoustic Noise:	(1) Position the microphone 30 centimeters above the x-y center of the AC adapter (2) Input voltage:110Vac/60Hz 220Vac/50Hz	The EUT < 30dB



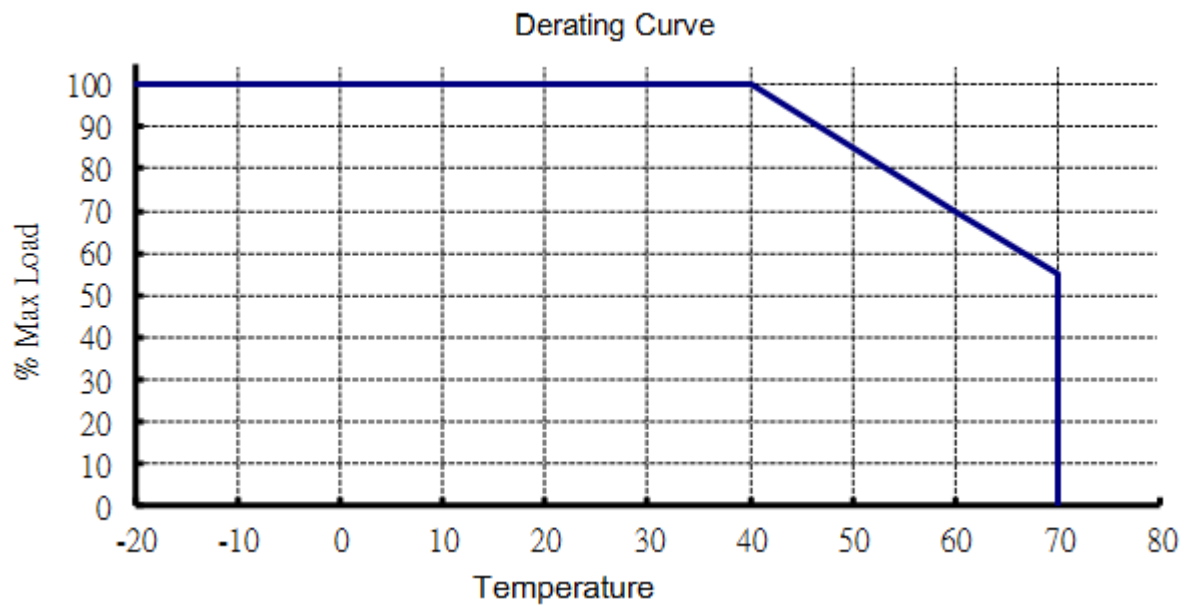
Electrical Specification

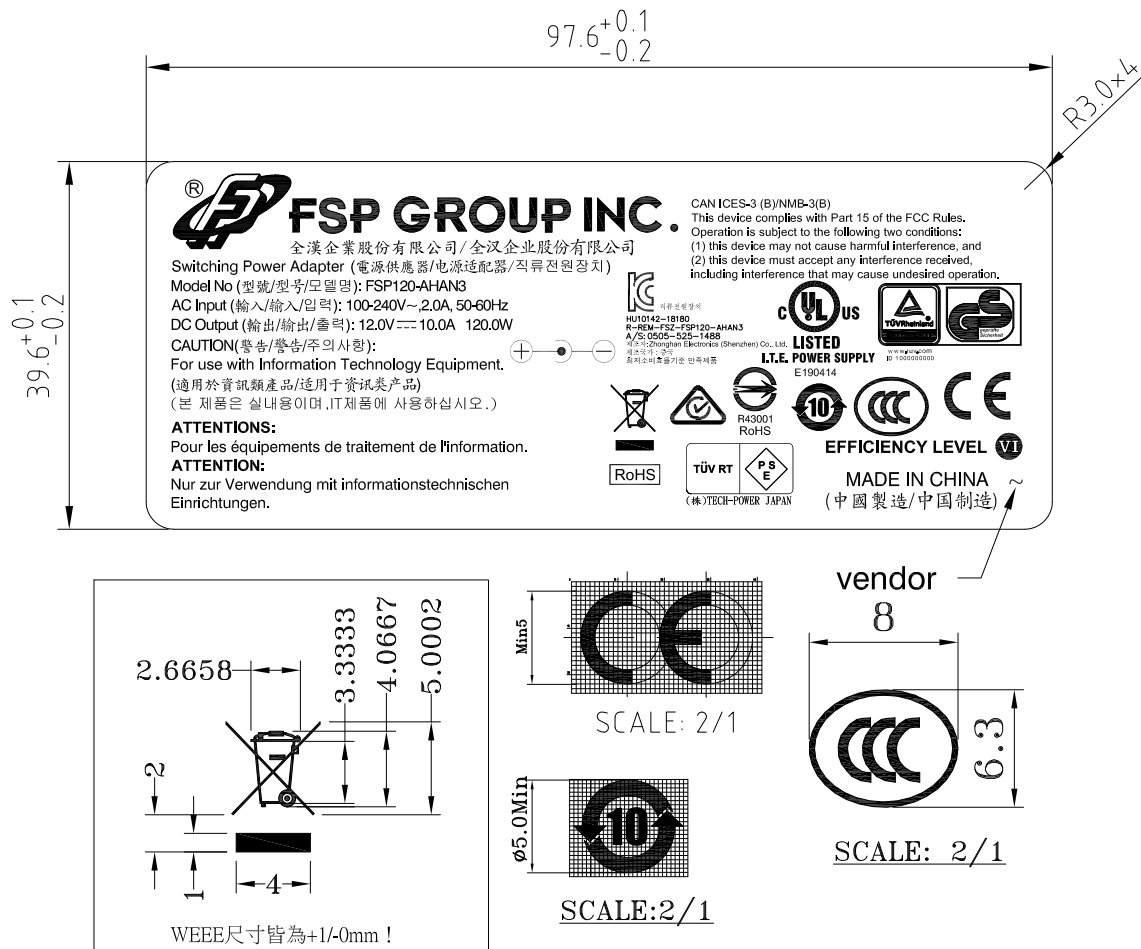
Note : Acoustic Noise



Note : Temperature(2)

Input Voltage : 115Vac or 230Vac





NOTES:

1. MATERIAL: WHITE POLYESTER + MYLAR COATING(半霧面), $t=0.15\pm0.05\text{mm}$.
ADHESIVE: # K.K. NO. 9 OR EQUIVALENT.
2. BACKGROUND'S COLOR: BLACK. WORD'S COLOR: WHITE
3. "~" LABEL VENDER IN ENGLISH NAME, 2 LETTERS.
4. LABEL MUST BE DIE CUT PROPERLY AS PER DIMENSION.
5. LABEL MUST BE UL RECOGNIZED: PGDQ2 OR PGJ12 AND CSA CERTIFIED: Plastic Group III(polycarbonate).
6. THE LABEL IS SUPPOSED TO BE PASTED ON PC CASE EVENLY AND PROPERLY IT'S NOT ALLOWED TO HAVE ANY BULGE HAPPEN ON THE LABEL AFTER BE BURNT IN 72 HRS IN OVEN WHICH TEMPERATURE IS 100°C .
7. DIMENSIONS MARKED * MARK MUST BE INSPECTED AND CONTROLLED STRICTLY BY IQC.
8. THE PLASTIC MATERIAL OF APPLICATION SURFACE FOR THIS LABEL IS PC.
9. ALL SPECIFICATION MUST BEEN APPROVED BY DESIGN ENGINEER.
10. UNFOUNDED TOLERANCE: $\pm 0.2\text{mm}$.
11. THE FINISHED LABEL GOODS SHOULD ALL THE SAME AS THIS DRAWING;
INCLUDING: FONT TYPE, SYMBOLS, CONTENT, SIZE, POSITION,ETC.
12. 黏貼於PC塑膠材質, 表面屬於光面或是鏡面

 SCALE:
UNIT: mm

P/N.: 6LL1861903GP

MODEL NO. :	FSP120-AHAN3	TITLE:	SPEC LABEL	SHEET: 1 OF 2	REV: 03
R&D3 Division	PE	ME	DATE		
L.J	Melody	Melody	2020-01-13		
INTERIOR COUNTERSIGN:					

Mechanical Drawing (外觀/機構圖)



Rev.	Description	Sym.	DATE
01	Specification issue		2018-02-09
02	新增PSE/BSMI/KC/紐澳證書/CCC安規logo		2018-11-13
03	導入歐盟新標準		2020-01-07
P/N.: 6LL1861903GP			
MODEL NO.: FSP120-AHAN3		TITLE: SPEC LABEL	SHEET: 2 OF 2 REV: 02
R&D3 Division	PE	ME	DATE
L.J	Melody	Melody	2020/01/13
INTERIOR COUNTERSIGN:			

Mechanical Drawing (外觀/機構圖)

EPS BASIC MODEL CERTIFICATION REPORT

EPS BASIC MODEL CERTIFICATION REPORT

Basic Model: FSP120-AHAN3
Manufacturer: FSP GROUP INC.
Private Labeler (if applicable): _____
Name: MIKE LIN
Title: SAFETY MANAGER
Address: No. 22, Jianguo East Road, Taoyuan City 330, Taiwan
Telephone Number: +886-3-3759888
Facsimile Number: +886-3-3756966
Date: 2017/10/18

For Existing, New, or Modified Basic Models:

Provide specific product information for each basic model, including the manufacturer's model numbers and the test results. The information required in Sec. 430.62(a)(4)(i) through (a)(4)(xvii) is included in the data fields below:

Manufacturer's Model Number: FSP120-AHAN3
Average Active-Mode Efficiency (%): 89.34
No-Load Mode Power Consumption (W): 0.09
Nameplate Output Power (W): 120
Nameplate Output Current (if missing from nameplate) (A): 10

For Discontinued Models:

Provide manufacturer's model number(s):



VERIFICATION OF COMPLIANCE

This Verification of Compliance is hereby issued to the below named company and for below described product, based on

**Technical Standard : EMC DIRECTIVE 2014/30/EU
(EN 55032 / EN 55024)**

General Information

Applicant : FSP Group Inc.
Address of Applicant : No 22, Jianguo East Road, Taoyuan City,
Taiwan 330, R.O.C.

Product Description

Product Name : Switching Power Adapter
Brand Name : FSP; Protek; Axis
Model Number : FSP120-AHAN3; FSP120-AHBN3; PUP120N3-12yyyyy;
PUP120N3S-12yyyyy(y=0-9, A-Z, hyphen or blank)

Measurement Standard

EN 55032: 2015 / AC: 2016
CISPR 32: 2015 (Ed 2.0) / C1: 2016
AS/NZS CISPR 32: 2015
EN 61000-3-2: 2014
EN 61000-3-3: 2013
EN 55024: 2010 + A1: 2015
(IEC 61000-4-2: 2008; IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010; IEC 61000-4-4: 2012;
IEC 61000-4-5: 2014 + A1: 2017; IEC 61000-4-6: 2013; IEC 61000-4-8: 2009;
IEC 61000-4-11: 2004 + A1: 2017)

Measurement Facilities

Company Name : **Compliance Certification Services Inc.**
Test Laboratory : Xindian Lab.
Address of Test Lab. : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, 23151 Taiwan.

This device has been tested and found to be in compliance with the measurement procedures specified in the Standards & Specifications listed above and as indicated in the measurement report with the number: T190417D03-E

The test results shown in this report are applicable only to the investigated sample identified in this report.

Sam Hu / Assistant Manager
Date: April 18, 2019

CCSRF
程智科技股份有限公司
Compliance Certification Services Inc.

VERIFICATION OF COMPLIANCE

This Verification of Compliance is hereby issued to the below named company and for below described product, based on

Technical Standard : FCC 47 CFR Part 15 Subpart B
ANSI C63.4:2014
ISED ICES-003 (Issue 6)

General Information

Applicant : FSP Group Inc.
Address of Applicant : No 22, Jianguo East Road, Taoyuan City,
Taiwan 330, R.O.C.

Product Description

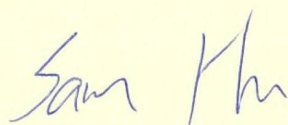
Product Name : Switching Power Adapter
Brand Name : FSP; Protek; Axis
Model Number : FSP120-AHAN3; FSP120-AHBN3; PUP120N3-12yyyyy;
PUP120N3S-12yyyyy(y=0-9, A-Z, hyphen or blank)

Measurement Facilities

Company Name : **Compliance Certification Services Inc.**
Test Laboratory : Xindian Lab.
Address of Test Lab. : No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, 23151 Taiwan.

This device has been tested and found to be in compliance with the measurement procedures specified in the Standards & Specifications listed above and as indicated in the measurement report with the number: T190417D03-D

The test results shown in this report are applicable only to the investigated sample identified in this report.



Sam Hu / Assistant Manager
Date: April 18, 2019

CCSRF
程智科技股份有限公司
Compliance Certification Services Inc.



Ref. Certif. No.

JPTUV-084755-A1

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

Switching Power Adapter

Name and address of the applicant
Nom et adresse du demandeur

FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330 Taiwan

Name and address of the manufacturer
Nom et adresse du fabricant

FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330 Taiwan

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

See additional page(s)

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Input : AC 100-240V; 2.0A; 50-60Hz; Class I
Output: DC 12V; 10A

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

FSP

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de type

FSP120-AHAN3, FSP120-AHBN3

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

For model differences, refer to the test report.
Re-issue of JPTUV-084755 dated 06.12.2017,
due to non-technical change.

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

IEC 60950-1:2005+A1+A2
See Test Report for National Differences

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

50107299 002

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



TÜVRheinland®

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 26.09.2018

Signature:

Dipl.-Ing. F. Stoelzel



Ref. Certif. No.

JPTUV-084755-A1

PAGE 2 OF 2

1. ShenZhen HuiLi Electronics CO., LTD
Block C, Building 4,6,7,8,9,10,11,
County 73, Xin'an, Bao'an,
Shenzhen, Guangdong
P. R. China
2. Zhonghan Electronics (Shenzhen)
Co., Ltd. Building A2 in Section A,
Building 4,6,7 in Section C,
JuYuan Industrial Zone,
TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, P. R. China
3. Wuxi SPI Technology Co., Ltd.
No. 96, Xinmei Road,
New District, Wuxi city, Jiangsu
P. R. China
4. ZHONGHAN SCIENCE & TECH CO. LTD
Building 9, Section B, JuYuan
Industrial Zone, TangWei Village,
FuYong Town, BaoAn District,
ShenZhen City, Guangdong, P. R. China
5. Wuxi ZhongHan Technology Co., Ltd.
Block 106-E,
Wuxi Nation HI-TECH Industrial
Development Zone,
Wuxi City, Jiangsu, Province, P. R. China
6. ShenZhen HuiLi Electronics CO., LTD
Block A, Building 3,
No. 5185, YeeYuan Rd.,
County 74, Xin'an, Bao'an,
Shenzhen, Guangdong 518102, P. R. China
7. ShenZhen HuiLi Electronics CO., LTD
Building B & G,
Peace Hi-tech Industrial Zone,
Peace Village, FuHai Town,
Bao'an, Shenzhen, Guangdong 518102, P. R. China

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 50107299 002

Date: 26.09.2018

Signature:

Dipl.-Ing. F. Stoezel



Ref. Certif. No.

JPTUV-084755

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

Switching Power Adapter

Name and address of the applicant
Nom et adresse du demandeur

FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330 Taiwan

Name and address of the manufacturer
Nom et adresse du fabricant

FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330 Taiwan

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

See additional page(s)

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Input : AC 100-240V; 2.0A; 50-60Hz; Class I
Output: DC 12V; 10A

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

FSP

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de type

FSP120-AHAN3, FSP120-AHBN3

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

For model differences, refer to the test report.

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

IEC 60950-1:2005+A1+A2
See Test Report for National Differences

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

50107299 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



TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Signature:

Robert Kong

Date: 06.12.2017



Ref. Certif. No.

JPTUV-084755

PAGE 2 OF 2

1. ShenZhen HuiLi Electronics CO., LTD
Block C, Building 4,6,7,8,9,10,11,
County 73, Xin'an, Bao'an,
Shenzhen, Guangdong
P. R. China
2. Zhonghan Electronics (Shenzhen) Co.,
Ltd. Building A2 in Section A, Building
4,6,7 in Section C, JuYuan Industrial
Zone, TangWei Village, FuYong Town,
BaoAn Dist., ShenZhen City, Guangdong, P. R. China
3. Wuxi SPI Technology Co., Ltd.
No. 96, Xinmei Road,
New District, Wuxi city, Jiangsu
P. R. China
4. ZHONGHAN SCIENCE & TECH CO. LTD
Building 9, Section B, JuYuan
Industrial Zone, TangWei Village,
FuYong Town, BaoAn District,
ShenZhen City, Guangdong, P. R. China
5. Wuxi ZhongHan Technology Co., Ltd.
Block 106-E,
Wuxi Nation HI-TECH Industrial
Development Zone,
Wuxi City, Jiangsu, Province, P. R. China
6. ShenZhen HuiLi Electronics CO., LTD
Block C, Building 4,6,7,8,9,10,11,
County 73, Xin'an, Bao'an, Shenzhen,
Guangdong (Block A, Building 3, No. 5185,
YeeYuan Rd., County 74, Bao'an), P. R. China

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 50107299 001

Date: 06.12.2017

Signature:

Robert Kong



Ref. Certif. No.

JPTUV-084736-A1

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

Switching Power Adapter

Name and address of the applicant
Nom et adresse du demandeur

FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330 Taiwan

Name and address of the manufacturer
Nom et adresse du fabricant

FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330 Taiwan

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

See additional page(s)

Ratings and principal characteristics
Valeurs nominales et caractéristiques principales

Input : 100-240Va.c.; 2.0A; 50-60Hz; Class I
Output: 12Vd.c.; 10A

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

FSP

Type of Manufacturer's Testing Laboratories used
Type de programme du laboratoire d'essais constructeur

N/A

Model / Type Ref.
Ref. de type

FSP120-AHAN3, FSP120-AHBN3

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

For model differences, refer to the test report.
Re-issue of JPTUV-084736 dated 06.12.2017,
due to non-technical change.

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

IEC 62368-1:2014
See Test Report for National Differences

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

50107297 002

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



TÜVRheinland®

TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Date: 26.09.2018

Signature:

Dipl.-Ing. F. Stoezel



Ref. Certif. No.

JPTUV-084736-A1

PAGE 2 OF 2

1. ShenZhen HuiLi Electronics CO., LTD
Block C, Building 4,6,7,8,9,10,11,
County 73, Xin'an, Bao'an,
Shenzhen, Guangdong
P. R. China
2. Zhonghan Electronics (Shenzhen)
Co., Ltd. Building A2 in Section A,
Building 4,6,7 in Section C,
JuYuan Industrial Zone,
TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, P. R. China
3. Wuxi SPI Technology Co., Ltd.
No. 96, Xinmei Road,
New District, Wuxi city, Jiangsu
P. R. China
4. ZHONGHAN SCIENCE & TECH CO. LTD
Building 9, Section B, JuYuan
Industrial Zone, TangWei Village,
FuYong Town, BaoAn District,
ShenZhen City, Guangdong, P. R. China
5. Wuxi ZhongHan Technology Co., Ltd.
Block 106-E,
Wuxi Nation HI-TECH Industrial
Development Zone,
Wuxi City, Jiangsu, Province, P. R. China
6. ShenZhen HuiLi Electronics CO., LTD
Block A, Building 3,
No. 5185, YeeYuan Rd.,
County 74, Xin'an, Bao'an,
Shenzhen, Guangdong 518102, P. R. China
7. ShenZhen HuiLi Electronics CO., LTD
Building B & G,
Peace Hi-tech Industrial Zone,
Peace Village, FuHai Town,
Bao'an, Shenzhen, Guangdong 518102, P. R. China

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 50107297 002

Date: 26.09.2018

Signature:

Dipl.-Ing. F. Stelzel

	Ref. Certif. No.
	JPTUV-084736

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

SYSTEME CEI D'ACCEPTATION MUTUELLE DE
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See additional page(s)

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FSP

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Type de programme du laboratoire d'essais constructeur

N/A

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Ref. de type

FSP120-AHAN3, FSP120-AHBN3

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

For model differences, refer to the test report.

A sample of the product was tested and found
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Un échantillon de ce produit a été essayé et a été
considéré conforme à la

IEC 62368-1:2014
See Test Report for National Differences

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

50107297 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



TÜV Rheinland Japan Ltd.
Global Technology Assessment Center
4-25-2 Kita-Yamata, Tsuzuki-ku
Yokohama 224-0021 Japan
Phone + 81 45 914-3888
Fax + 81 45 914-3354
Mail: info@jpn.tuv.com
Web: www.tuv.com

Signature:

Robert Kong

Date: 06.12.2017

	<table border="1"> <tr> <td>Ref. Certif. No.</td> </tr> <tr> <td>JPTUV-084736</td> </tr> </table>	Ref. Certif. No.	JPTUV-084736
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JPTUV-084736			

PAGE 2 OF 2

1. ShenZhen HuiLi Electronics CO., LTD
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Building 9, Section B, JuYuan
Industrial Zone, TangWei Village,
FuYong Town, BaoAn District,
ShenZhen City, Guangdong, P. R. China
5. Wuxi ZhongHan Technology Co., Ltd.
Block 106-E,
Wuxi Nation HI-TECH Industrial
Development Zone,
Wuxi City, Jiangsu, Province, P. R. China
6. ShenZhen HuiLi Electronics CO., LTD
Block C, Building 4,6,7,8,9,10,11,
County 73, Xin'an, Bao'an, Shenzhen,
Guangdong (Block A, Building 3, No. 5185,
YeeYuan Rd., County 74, Bao'an), P. R. China

Additional information (if necessary)
Information complémentaire (si nécessaire)

Report Ref. No.: 50107297 001

Date: 06.12.2017

Signature:


 Robert Kong

Zertifikat**Certificate**

Zertifikat Nr. Certificate No.
S 50434171

Blatt Sheet
0001

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Längstens gültig bis Latest expiration date
JY110319	ZTW1-CCO-50107298 002	05.12.2022 (day/mo/yr)

Genehmigungsinhaber License Holder
Axis Communications AB.
Emdalavagen 14,
SE-Lund 22369
Sweden

Fertigungsstätte Manufacturing Plant
030-0000351690

Prüfzeichen Test Mark

Geprüft nach Tested acc. to
EN 62368-1:2014+A11



Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Externes Schaltnetzteil (Switching Power Adapter)

Bezeichnung (Type Designation)	: FSP120-AHAN3 (AXIS)	5
Nennspannung (Rated Voltage)	: AC 100-240V, 50-60Hz	
Nennstrom (Rated Current)	: 2.0A	
Ausgang (Output)	: 12Vd.c./10A	
max. Betriebshöhe (max. Operating Altitude)	: 5000m	
max. Umgebungstemperatur (max. Ambient Temperature)	: 40°C	
Schutzklasse (Protection Class)	: I	

Hinweis: Anforderungen der AfPS GS 2014:01 PAK Klausel 3.1
berücksichtigt. (Remark: Requirements of AfPS GS 2014:01 PAK
clause 3.1.)

5

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
Produkt und Fertigungsstätte erfüllen § 20 und § 21 des
Produktsicherheitsgesetzes.

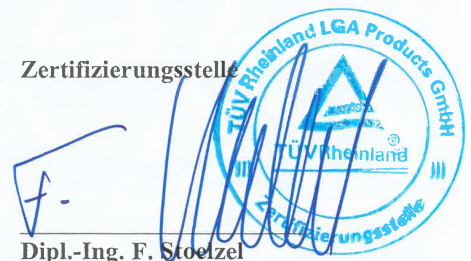
This certificate is based on our Testing and Certification Regulation.
Product and production fulfill par § 20 and § 21 of the
Product Safety Law.

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

Ausstellungsdatum Date of Issue : 06.05.2019 (day/mo/yr)

Zertifizierungsstelle



CERTIFICATE OF COMPLIANCE

Certificate Number 20180112-E190414
Report Reference E190414-20180111
Issue Date 2018-JANUARY-12

Issued to: FSP GROUP INC
22 Jianguo E Rd
Taoyuan City
330 TAIWAN

This is to certify that
representative samples of

POWER SUPPLIES FOR USE WITH AUDIO/VIDEO,
INFORMATION AND COMMUNICATION TECHNOLOGY
EQUIPMENT

Switching Power Adapter - FSP120-AHAN3, FSP120-
AHBN3

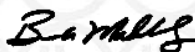
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 62368-1 & CSA C22.2 No. 62368-1-14 - Audio/video,
Information and Communication Technology Equipment -
Part 1: Safety Requirements

Additional Information: See the UL Online Certifications Directory at
www.ul.com/database for additional information

Only those products bearing the UL Certification Mark should be considered as being covered by UL's
Certification and Follow-Up Service.

Look for the UL Certification Mark on the product.



Bruce Mahrenholz, Director North American Certification Program
UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please
contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



適合同等証明書

Certificate of Conformity



証明書番号 Certificate No.

ページ Page

JD 50401146

1

申請者照会番号 Applicant Reference

検査機関照会番号 Our Reference

発行年月日 Date of Issue

Hsiehm-114073767

ZTW1-FS-50124868 001

2018 年 03 月 01 日

申請者 Applicant

製造工場 Manufacturing Plant

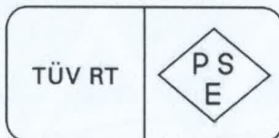
Zhonghan Electronics (Shenzhen) Co., Ltd.

Zhonghan Electronics (Shenzhen) Co., Ltd.

Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong P. R. China

Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong 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(H29), J55022(H22), J3000(H25)

Interpretation on Ministerial Ordinance establishing Technical Requirements Appendix 12: J60950-1 (H29), 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 Electric Appliances)

特定電気用品名

： 直流電源装置

Name of Specified Electrical Appliance and Material

DC Power Supply Unit

型式の区分

：（「添付 1.0」参照）

Type Classification

(Refer to "Attachment 1.0")

証明書の有効期間

： 本証明書は、施行令で規定された期間である 2023 年 02 月 28 日まで有効です。

Validity of Certificate

This certificate is effective until 28 February, 2023, 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

- 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.
- 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に有効です。
This Certificate of Conformity is valid only in conjunction with type classification sheet(s) specified as attached.

テュフ ラインランド 台湾リミテッド
TÜV Rheinland Taiwan Ltd.

1 1 階、7 5 8、パートウロード、セクション 4、ショウサン区、台北 1 0 5、台湾
11F, No. 758, Bade Rd., Sec. 4, Songshan Dist., Taipei 105, Taiwan, R.O.C.

発行者 Issued by

氏名 Name

Dipl.-Ing. F. Stölzel

フリードリット シュテールツェル





添付 Attachment : 1.0

発行日 Date of Issue : 2018 年 03 月 01 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 50401146

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

申請者 (Applicant) : Zhonghan Electronics (Shenzhen) Co., Ltd.

海外製造事業者
(Overseas Manufacturer/factory) : Zhonghan Electronics (Shenzhen) Co., Ltd.

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 capacity on input side)	100VA を超え 200VA 以下のもの (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)
外郭の材料 (Outer case material)	合成樹脂のもの (Plastic)
用途 (Application)	その他のもの (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)

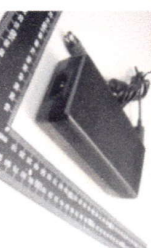
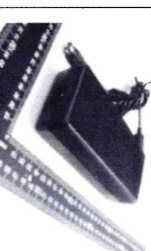
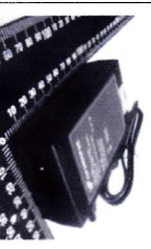
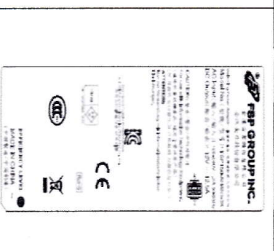
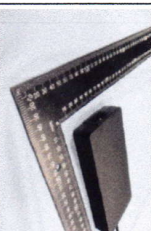
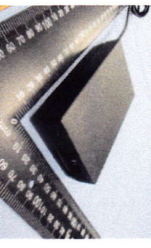
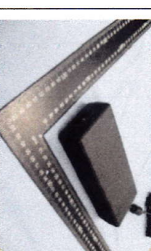
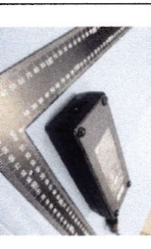
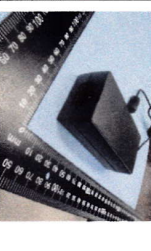
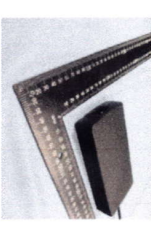
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11 階、758、パートウロード、セクション4、ショウサン区、台北105、台湾
11F, No. 758, Bade Rd., Sec. 4, Songshan Dist., Taipei 105, Taiwan, R.O.C.

発行者 Issued by

氏名 Name Dipl.-Ing. F. Stelzel
フリードリヒ・シュテールツェル



Model	(Bosch) FSP120-A1AN1	FSP096-DAAD1	FSP150-A1AN1	FSP150-A1AN1-3K	FSP096-D8AE1	FSP060-D3AE1	FSP060-D3AB1
CASE							
Certificate No.	JD50188911	JD50198123 CL-D1	JD50198123 CL-D1	JD50198123 CL-D1	JD50198123-020118K5 CL-D1	JD50198123-060118K5 CL-D1	JD50198123-09011815065629 CL-D1
Output	DC output:12.0Vdc/0.0A max	DC output:12.0Vdc/8.0A max	DC output:12.0Vdc/12.5A max	DC output:12.0Vdc/12.5A max	DC output:12.0Vdc/4.0A max	DC output:12.0Vdc/5.0A max	DC output:12.0Vdc/5.0A max
Transformer (T1)	87T00023	87T00866 87T00868	87T00018	87T00018	87T00148	87T00148	87T00071
Current (INLET)	0.05A min./3W min	0.66A min./1.0W min	0.60A min./3W min	0.60A min./3W min	0.80A min./1.0W	0.70A min./1.0W	0.27A min./3W
Label							
Model	FSP096-A1AN2	FSP096-D3AA1	FSP096-A1AN3	FSP150-A1AN3	FSP120-A1AN2	FSP060-B1AN3	FSP096-A1AN2
CASE							
Certificate No.	JD50283716	JD5029151	JD5029095	JD50198125	JD50198126	JD5010308 CL-D5	JD50131196
Output	DC output:12.0Vdc/0.0A max	DC output:12.0Vdc/3.3A max	DC output:12.0Vdc/5.0A max	DC output:12.0Vdc/12.5A max	DC output:12.0Vdc/0.0A max	DC output:12.0Vdc/0.0A max	DC output:12.0Vdc/0.0A max
Transformer (T1)	87T00029	87T00087	87T00148	87T00466	87T00472	87T00032	87T00229
Current (INLET)	0.10A min./1W min	6.66A min./1W min	6.75 A min./1.0W min	0.675 A min./3W min	0.875A min./1W min	6.40A min./3W min	6.40A min./1W min
Label							

追加モデル仕様の表

製品名・型番 (Product Name / Model No.)		型番 (Model No.)		型番 (Model No.)		型番 (Model No.)		型番 (Model No.)	
FSP120-A1A4N3		FSP00086A01		FSP150-A0A2N2		FSP00086A01		FSP150K4-A1A	
FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.	
Case		Case		Case		Case		Case	
Certificate No.		Certificate No.		Certificate No.		Certificate No.		Certificate No.	
JD5018391		JD5030192		JD5030566		JD5037355		JD50392910	
Output		Output		Output		Output		Output	
DC output 12.0Vdc/10.0A max		DC output 12.0Vdc/16.8A max		DC output 12.0Vdc/9.0A max		DC output 15.0Vdc/10.0A max		DC output 12.0Vdc/7.5A max	
Transformer (T1)		Transformer (T1)		Transformer (T1)		Transformer (T1)		Transformer (T1)	
RTW00328		RTW00446		RTW001767		RTW00605		RTW00352	
Current (R11)		Current (R11)		Current (R11)		Current (R11)		Current (R11)	
0.065 min, 2W min		0.630 min, 1/4W min		0.090 min, 2W min		0.010 min, 20W min		1.120 min, 1/4W min	
INLET		INLET		INLET		INLET		INLET	
CS		C14		C14		C14		C14	
Label		Label		Label		Label		Label	
FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.	
Model		Model		Model		Model		Model	
FSP120-A1A4N3		FSP120-A1A4N3		FSP120-A1A4N3		FSP120-A1A4N3		FSP120-A1A4N3	
Case		Case		Case		Case		Case	
Certificate No.		Certificate No.		Certificate No.		Certificate No.		Certificate No.	
JD5001146		JD5001146		JD5001146		JD5001146		JD5001146	
Output		Output		Output		Output		Output	
DC output 12.0Vdc/10.0A max		DC output 12.0Vdc/10.0A max		DC output 12.0Vdc/10.0A max		DC output 12.0Vdc/10.0A max		DC output 12.0Vdc/10.0A max	
Transformer (T1)		Transformer (T1)		Transformer (T1)		Transformer (T1)		Transformer (T1)	
RTW00573		RTW00573		RTW00573		RTW00573		RTW00573	
Current (R11)		Current (R11)		Current (R11)		Current (R11)		Current (R11)	
0.065 min, 2W min		0.065 min, 2W min		0.065 min, 2W min		0.065 min, 2W min		0.065 min, 2W min	
INLET		INLET		INLET		INLET		INLET	
C14		C14		C14		C14		C14	
Label		Label		Label		Label		Label	
FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.		FSP GROUP INC.	



電気用品安全法施行規則

Date: 2018/5/2
TECH-POWER JAPAN
Yoshihiro Nakamura

直流電源装置	定格入力電圧	① 125V以下のもの ② 125Vを超えるもの
	入力側の定格容量	(1) 10VA以下のもの (2) 10VAを超え20VA以下のもの (3) 20VAを超え30VA以下のもの (4) 30VAを超え40VA以下のもの (5) 40VAを超え50VA以下のもの (6) 50VAを超え60VA以下のもの (7) 60VAを超え70VA以下のもの (8) 70VAを超え80VA以下のもの (9) 80VAを超え90VA以下のもの (10) 90VAを超え100VA以下のもの ① 100VAを超え200VA以下のもの (12) 200VAを超え300VA以下のもの (13) 300VAを超え400VA以下のもの (14) 400VAを超えるもの
	定格周波数(変圧器を有するものの場合に限る。)	① 50Hzのもの ② 60Hzのもの
	交流用端子	(1) あるもの ② ないもの
	直流定格電圧	① 15V以下のもの (2) 15Vを超え30V以下のもの (3) 30Vを超え60V以下のもの (4) 60Vを超えるもの
	変圧器	① あるもの (2) ないもの
	変圧器の巻線の絶縁の種類	(1) A種のもの (2) E種のもの ③ B種のもの (4) F種のもの (5) H種のもの (6) その他のもの
	直流電圧の調整装置	(1) あるもの ② ないもの
	回路の保護機構	① あるもの (2) ないもの
	器体スイッチ	(1) あるもの ② ないもの
	器体スイッチの操作の方式	(1) タンブラー式のもの (2) 押しボタン式のもの (3) ロータリー式のもの (4) その他のもの
	器体スイッチの接点の材料	(1) 銀のもの又は銀合金のもの (2) 銅のもの又は銅合金のもの (3) その他のもの
	外郭の材料	(1) 金属のもの ② 合成樹脂のもの (3) その他のもの
	用途	(1) 電池充電用のもの (2) おもちゃ用のもの (3) 自動車スタータ用のもの ② その他のもの
	電源電線と器体との接続の方式	(1) 直付けのもの ② 接続器利用のもの
	二重絶縁	(1) 施してあるもの ② 施してないもの

FSP 品 番

FSP120-AHAN1
FSP096-DMAD1
FSP150-AHAN1
FSP150-AHAN1-3K
FSP050-DABE1
FSP060-DABE1
FSP060-DBAB1
FSP096-AHBN2
FSP040-DGAA1
FSP060-DIBAN2
FSP150-AHAN2
FSP120-AHAN2
FSP048-RHAN2
FSP096-AHAN2
FSP050-DIBAN2
PS000086A01
FSP150-AGAN2
FSP060-DHAN3
FSP150M-AHA
FSP150M-AGA
追加) FSP120-AHAN3

※電気用品の種類や型式の区分が多数有る場合の記入様式（一例）

届出を行う当該電気用品の型式の区分（2／4）

当該電気用品の品名	型式の区分
*FSP060-RPBB *FSP060-RPBA *FSP060-RPAC *FSP150-AAAN2-Z *FSP100-RTAAN2 *FSP100-RDB *FSP150-ABBN3 *FSP100-RAA *FSP150M-AAA *FSP150M-ABA *FSP060-RTAAN2 *FSP120-AAAN3 *FSP065-RBBN3	型式区分管理No. ; CL-1 型式区分管理No. ; CL-2 型式区分管理No. ; CL-1
FSP030-DGAA5	型式区分管理No. ; CL-1 (Renew)
SPA090AS19C *FSP090-DIECN2	型式区分管理No. ; CL-1
FSP048-DBCA2 *FSP050-DBCD1	型式区分管理No. ; CL-1
FSP075-DMCA1	型式区分管理No. ; CL-1 (Renew)
FSP065-RAC *FSP065-REC	型式区分管理No. ; CL-1 (Renew)
FSP040-RAB	型式区分管理No. ; CL-3、CL-4（工場：Wuxi） 型式区分管理No. ; CL-3、CL-4（工場：ShenZhen）
FSP220-ABAN1 *FSP220-ABAN2	型式区分管理No. ; CL-1（更新でCL-2削除） (Renew) 型式区分管理No. ; CL-1
TT-1202FP *FSP090-DMBB1 *FSP065-REB *FSP050-DBAE2** *FSP060-DBAE2**	型式区分管理No. ; CL-1、CL-2
FSP030-DGAA1	型式区分管理No. ; CL-1、
FSP075-DMAB1 *FSP045-REBN2	型式区分管理No. ; CL- 1 (Renew)
FSP075-DMBA1	型式区分管理No. ; CL- 2
FSP090-DMAB1	型式区分管理No. ; CL-1
FSP084-DMBA1 *FSP084-DIBAN2 *FSP084-DMAA1	型式区分管理No. ; CL-1
FSP180-RBBN2	型式区分管理No. ; CL-1（工場：ShenZhen HuiLi）
FSP070-RDBM	型式区分管理No. ; CL-1
FSP075-DIBAN2	型式区分管理No. ; CL- 1

*印は、型式一致での追加モデルを、また(Renew)は更新を表す。TECH-POWER で管理

※電気用品の種類や型式の区分が多数有る場合の記入様式（一例）

届出を行う当該電気用品の型式の区分（3／4）

当該電気用品の品名	型式の区分
FSP025-DYAA3 *FSP025-RAAM	型式区分管理No. ; CL-1 (Renew)
FSP220-AAAN1 *FSP-220-AAAN2	型式区分管理No. ; CL-1
FSP015-DYAA1 *FSP015-DYAA31	型式区分管理No. ; CL-1
FSP030-RCAM *FSP030-RCAM-A	型式区分管理No. ; CL-1
FSP036-RAC	型式区分管理No. ; CL-1
FSP075-DMAA1	型式区分管理No. ; CL-1
SPA011AU5W2	型式区分管理No. ; CL-1（工場：ShenZhen HuiLi）
FSP020-DGAA1	型式区分管理No. ; CL-1
SPA040A19W2	型式区分管理No. ; CL-1
FSP036-RAB *FSP036-DGAA1	型式区分管理No. ; CL-1
FSP036-RBBN2	型式区分管理No. ; CL-1（工場：ShenZhen） 型式区分管理No. ; CL-1（工場：Wuxi）
FSP120-AFA *FSP120-AFAN2-Z *FSP065-DFAN2 *FSP065-DWAN2 *FSP180-AFAN2 *FSP120-AWAN2	型式区分管理No. ; CL-1
FSP025-DINANS	型式区分管理No. ; CL-1
FSP050-DGAA5 *FSP090-AWAN2 *HPE090-AWAN2 *FSP090-AFAN2	型式区分管理No. ; CL-2 型式区分管理No. ; CL-1
FSP065-10AABA	型式区分管理No. ; CL-1、
FSP019-1AD205A	型式区分管理No. ; CL-1、
SPA12A24B	型式区分管理No. ; CL-1、
FSP040-RHAN2 *FSP040-DRAN2	型式区分管理No. ; CL-1、
FSP020-DPAN2	型式区分管理No. ; CL-1、

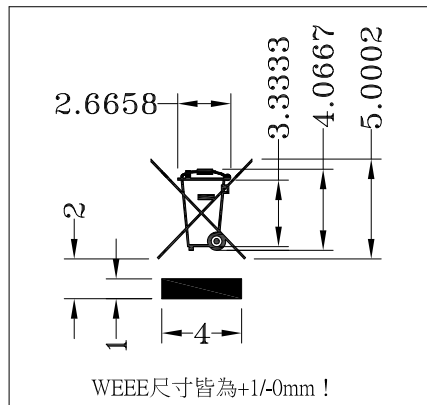
*印は、型式一致での追加モデルを、また(Renew)は更新を表す。TECH-POWER で管理

※電気用品の種類や型式の区分が多数有る場合の記入様式（一例）

届出を行う当該電気用品の型式の区分（4／4）

当該電気用品の品名	型式の区分
SPA015A648US	型式区分管理No. ; CL-1
FSP040-DWAW2	型式区分管理No. ; CL-1 (工場 : Zhonghan Science&Tech)
FSP025-DPAN2	型式区分管理No. ; CL-1
FSP065-RECN2	型式区分管理No. ; CL-1
FSP015-DPAN2	型式区分管理No. ; CL-1
FSP090-ABAN2 *FSP090-AAAN2	型式区分管理No. ; CL-1
FSP045-RECN2	型式区分管理No. ; CL-1
FSP010-FPDN	型式区分管理No. ; CL-1
FSP065-DHCM1	型式区分管理No. ; CL-1
FSP065-REB	型式区分管理No. ; CL-1
FSP270-RBAN3	型式区分管理No. ; CL-1(1/2,2/2)
FSP040-DHMN2	型式区分管理No. ; CL-1
FSP036-RHBN3	型式区分管理No. ; CL-1

*印は、型式一致での追加モデルを、また(Renew)は更新を表す。TECH-POWER で管理



NOTES:

1. MATERIAL: WHITE POLYESTER + MYLAR COATING(半霧面), $t=0.15\pm0.05\text{mm}$.
ADHESIVE: # K.K. NO. 9 OR EQUIVALENT.
2. BACKGROUND'S COLOR: BLACK. WORD'S COLOR: WHITE
3. "~" LABEL VENDER IN ENGLISH NAME, 2 LETTERS.
4. LABEL MUST BE DIE CUT PROPERLY AS PER DIMENSION.
5. LABEL MUST BE UL RECOGNIZED: PGDQ2 OR PGJ12 AND CSA CERTIFIED: Plastic Group III(polycarbonate).
6. THE LABEL IS SUPPOSED TO BE PASTED ON PC CASE EVENLY AND PROPERLY IT'S NOT ALLOWED TO HAVE ANY BULGE HAPPEN ON THE LABEL AFTER BE BURNT IN 72 HRS IN OVEN WHICH TEMPERATURE IS 100°C .
7. DIMENSIONS MARKED * MARK MUST BE INSPECTED AND CONTROLLED STRICTLY BY IQC.
8. THE PLASTIC MATERIAL OF APPLICATION SURFACE FOR THIS LABEL IS PC.
9. ALL SPECIFICATION MUST BEEN APPROVED BY DESIGN ENGINEER.
10. UNFOUNDED TOLERANCE: $\pm 0.2\text{mm}$.
11. THE FINISHED LABEL GOODS SHOULD ALL THE SAME AS THIS DRAWING;
INCLUDING: FONT TYPE, SYMBOLS, CONTENT, SIZE, POSITION,ETC.
12. 黏貼於PC塑膠材質,表面屬於光面或是鏡面

 SCALE:
UNIT: mm

P/N.: FSP120-AHAN3

MODEL NO. :	FSP120-AHAN3	TITLE:	SPEC LABEL	SHEET: 1 OF 1	REV: 01
R&D3 Division	PE	ME	DATE		
L.J	ABBY	ABBY	2018/01/26		
INTERIOR COUNTERSIGN:			NO.		

Mechanical Drawing (外觀/機構圖)

適合同等証明書

Certificate of Conformity



証明書番号 Certificate No.

ページ Page

JD 50401146

1

申請者照会番号 Applicant Reference

検査機関照会番号 Our Reference

発行年月日 Date of Issue

Hsiehm-114073767

ZTW1-FS-50124868 001

2018 年 03 月 01 日

申請者 Applicant

製造工場 Manufacturing Plant

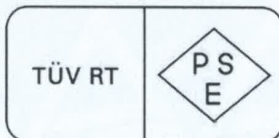
Zhonghan Electronics (Shenzhen) Co., Ltd.

Zhonghan Electronics (Shenzhen) Co., Ltd.

Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong P. R. China

Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong 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(H29), J55022(H22), J3000(H25)

Interpretation on Ministerial Ordinance establishing Technical Requirements Appendix 12: J60950-1 (H29), 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 Electric Appliances)

特定電気用品名

： 直流電源装置

Name of Specified Electrical Appliance and Material

DC Power Supply Unit

型式の区分

：（「添付 1.0」参照）

Type Classification

(Refer to "Attachment 1.0")

証明書の有効期間

： 本証明書は、施行令で規定された期間である 2023 年 02 月 28 日まで有効です。

Validity of Certificate

This certificate is effective until 28 February, 2023, 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に有効です。
This Certificate of Conformity is valid only in conjunction with type classification sheet(s) specified as attached.

テュフ ラインランド 台湾リミテッド
TÜV Rheinland Taiwan Ltd.

発行者 Issued by

氏名 Name

Dipl.-Ing. F. Stölzel



フリードリット シュテールツェル

1 1 階、7 5 8、パートウロード、セクション 4、ショウサン区、台北 1 0 5、台湾
11F, No. 758, Bade Rd., Sec. 4, Songshan Dist., Taipei 105, Taiwan, R.O.C.



添付 Attachment : 1.0

発行日 Date of Issue : 2018 年 03 月 01 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 50401146

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

申請者 (Applicant) : Zhonghan Electronics (Shenzhen) Co., Ltd.

海外製造事業者
(Overseas Manufacturer/factory) : Zhonghan Electronics (Shenzhen) Co., Ltd.

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 capacity on input side)	100VA を超え 200VA 以下のもの (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)
外郭の材料 (Outer case material)	合成樹脂のもの (Plastic)
用途 (Application)	その他のもの (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 台湾リミテッド
TÜV Rheinland Taiwan Ltd.

11 階、758、パートウロード、セクション4、ショウサン区、台北105、台湾
11F, No. 758, Bade Rd., Sec. 4, Songshan Dist., Taipei 105, Taiwan, R.O.C.

発行者 Issued by

氏名 Name Dipl.-Ing. F. Stelzel
フリードリヒ・シュテールツェル





FSP GROUP INC.

No. 22, Jianguo E. Rd., Taoyuan City, Taiwan, R.O.C.

TEL: +886 3 375 9888 FAX: +886 3 375 6966

CE Declaration of Conformity

Manufacturer:

Name: FSP Group Inc.

Address: No. 22, Jianguo E. Rd., Taoyuan City, Taiwan, R.O.C.

Declares that :

Product Name: Switching Power Adapter

Model Number: FSP120-AHAN3, FSP120-AHBN3

Complies with the following:

Standards

IEC62368-1:2014

IEC60950-1:2005+A1+A2

EN 62368:2014+A11

EN 60950:2006+A11+A1+A12+A2

EN 55032:2012 /AC:2013

EN 55024:2010

IEC 61000-3-2:2014

EN 61000-3-2:2014

IEC 61000-3-3:2013

EN 61000-3-3:2013

(EC) No 278/2009

EN50563:2011/A1:2013

EN 50581: 2012

Directives

2014/35/EU (Low Voltage Directive)

2014/30/EU (EMC Directive)

Commission Regulation

2009/125/EC (ErP Directive)

Directive (EU) 2015/863 (RoHS Directive)

Signature: Allen Cheng

Print Name: Allen Cheng

Title: President

Date: 7.24.2018

Place: Taoyuan, Taiwan



中国国家强制性产品认证证书

证书编号: 2018010907098377

委托人名称、地址

全汉企业股份有限公司
台湾桃园市桃园区建国东路 22 号

生产者(制造商)名称、地址

全汉企业股份有限公司
台湾桃园市桃园区建国东路 22 号

生产企业名称、地址

仲汉电子(深圳)有限公司
广东省深圳市宝安区福海街道塘尾社区聚源工业区 A 区 A2 厂房、C 区厂房 4、6、7 栋

产品名称和系列、规格、型号

电源适配器

FSP120-AHAN3、FSP120-AHBN3 输入: 100-240V~, 2.0A, 50-60Hz; 输出: 12Vdc, 10A (不带电线组件销售, 仅适用于海拔 5000 米及以下)

产品标准和技术要求

GB17625.1-2012; GB4943.1-2011; GB/T9254-2008

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: 2018 年 07 月 27 日 有效期至: 2023 年 07 月 27 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

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

中国·北京·南四环西路188号9区 100070

电话: +86 10 83886666

Q 1992810



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2018010907098377

NAME AND ADDRESS OF THE APPLICANT

FSP Group Inc.
No.22,JianGuo E.Rd.,TaoYuan City,TaiWan

NAME AND ADDRESS OF THE MANUFACTURER

FSP Group Inc.
No.22,JianGuo E.Rd.,TaoYuan City,TaiWan

NAME AND ADDRESS OF THE FACTORY

Zhonghan Electronics (Shenzhen) Co., Ltd.
Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village,
FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, China

PRODUCT NAME, MODEL AND SPECIFICATION

Switching Power Adapter
FSP120-AHAN3、FSP120-AHBN3 I/P: 100-240V~, 2.0A, 50-60Hz: O/P: 12Vdc,10A (Sale without cord set, Altitude up to 5000m)

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

GB17625.1-2012;GB4943.1-2011;GB/T9254-2008

This is to certify that the above mentioned product(s) complies with the requirements of implementation rules for compulsory certification(REFNO.CNCA-C09-01:2014).

Valid from: Jul.27,2018

Valid until: Jul.27,2023

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

The certificate information is available through CNCA's website: www.cnca.gov.cn



President:

Wang Kejiao



CHINA QUALITY CERTIFICATION CENTRE

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

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

Tel: +86 10 83886666

Q 1992810

**Certificate Number:** AZ 69022841**Page:** 0001

CERTIFICATE OF APPROVAL

Authorised marking: TUV022841EA

This is to certify that TÜV Rheinland Australia Pty Ltd as accredited by JAS-ANZ in accordance with ISO/IEC Guide 65 has examined for compliance with certification standards, the electrical equipment described hereunder and authorises the certificate holder to affix the above mentioned mark to products of the same type; or the Regulatory Compliance Mark (RCM) provided that the requirements of all relevant parts of AS/NZS 4417 applicable to the article are fulfilled

CERTIFICATE HOLDER:

FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330
Taiwan, R.O.C.

DESCRIPTION OF EQUIPMENT**Declared class:**

POWER SUPPLY OR CHARGER

Product:

Switching Power Adapter (Desk-top type)

Trade Name / Manufacturer:

FSP

Model Number:

FSP120-AHAN3

Ratings:

I/P: AC 100-240V, 2.0A, 50-60Hz, Class I, IPX0
O/P: 12Vdc, 10A

Standard:

AS/NZS 60950.1:2015

Issue Date:

10/07/2018

Expiry Date:

10/07/2023

Signed for and on behalf of TÜV Rheinland Australia Pty Ltd

Andreas Klinker



Acc. No. Z2870404AA
www.jas-anz.org/register

TÜV Rheinland Australia Pty Ltd
182 Dougherty Road, Heidelberg West VIC 3081
Phone: +61 (3) 9450 1400
Email: certification@au.tuv.com
Website: www.au.tuv.com



AUSTRALIAN GEMS REGULATOR

11 July 2018

FSP Group Inc
Kael Amif
No. 22, Jianguo E.Rd.,
Taoyuan City, Taoyuan, 330
Taiwan

Dear Sir/Madam,

NOTICE OF REGISTRATION UNDER THE *GREENHOUSE AND ENERGY MINIMUM STANDARDS ACT 2012* (the Act)

I refer to your application to register a model of a Greenhouse and Energy Minimum Standards (GEMS) product under section 41 of the Act. Your application has been accepted, and the model detailed below has been registered under section 43 of the Act.

Registration No	Product Type	Brand Name	Model	Date of Registration	Record ID
APS6377	External Power Supply	FSP	FSP120-AHAN3	11 July 2018	115314

This registration is valid for a maximum of five years from the date of registration. Registration of the model remains in force until the earliest of the following:

- The end of the model's maximum registration term;
- The GEMS Determination against which the model is registered is replaced, and the model does not comply with the requirements of the replacement Determination; or
- The registration is cancelled under section 54 of the Act.

As the registrant you are responsible for ensuring the model continues to meet the energy performance claimed in your application, and that it complies with the relevant GEMS Determination. Compliance with the Act is actively monitored under the Equipment Energy Efficiency (E3) Program, through a national check-testing program and other methods. Significant penalties, including the cancellation of registration, may apply for non-compliance.

It is also your responsibility to keep up-to-date the contact details of those persons listed on your application (including Authorised Representatives). Further information is available at www.energyrating.gov.au.

Yours sincerely,

Carl Porritt

**Authorised Delegate
for the Australian GEMS Regulator**

GEMS Regulator Equipment Energy Efficiency

Registration #115314

APS6377

Section 1 - Overview

Models

Model Number	FSP120-AHAN3
Brand	FSP

Administrative Details

Status	Approved
Registration Number	APS6377
Regulatory Authority	Australian Regulator
Regulator Terms Accepted	Yes
Agency	Queensland
Submitted Date	10 Jul 2018
Registration Date	11 Jul 2018
Expiry Date	11 Jul 2023
Clock Run Time	1
Date Approved	11 Jul 2018
Archive Status	Not Archived
Suspension Status	Not Suspended
Approval Certificate	Click to download

Registration Type

Appliance Type	External Power Supply (PS)
Product Class	Class 1
Determination	Greenhouse and Energy Minimum Standards (External Power Supplies) Determination 2014
Type of EPS application	Single model - Non-user selectable (Switchmode)
Application is For	High Efficiency 2014 (Mark VI)
Model / Test Configuration	One Model With One Test

Applicant Details

Applicant ID	103381
Applicant Organization Name	FSP Group Inc
Applicant ABN	-
Applicant Contact Name	Mike Lin
Applicant Phone	886 3 3759888(1762)
Applicant Fax	886 3 3756966
Applicant Email	mike@fsp-group.com.tw
Applicant Website	http://www.fsp-group.com/
Applicant Address	No. 22, Jianguo E.Rd.,

	Taoyuan City, Taoyuan, 330 Taiwan
Applicant Role	Manufacturer
Submitter Role	An agent submitting on behalf of the applicant
Letter of Authority	Provided

Payment

Payment Status	Paid
Payment Method	On-line payment via (Reserve Bank)
Payment Amount	440.0
Payment Date	10 Jul 2018

Administrative Contact

Name	Kael Amif
Organization	AMIF Pty Ltd
Job Title	Manager
Phone Number	02-46476680
Fax Number	Not supplied
Email	kael.amif@gmail.com
Address	138 Waterworth Drive Mount Annan, NSW, 2567 Australia

Technical Contact

Name	Mike Lin
Organization	FSP Group Inc.
Job Title	Manager
Phone Number	+886 3 3759888(1762)
Fax Number	Not supplied
Email	mike@fsp-group.com.tw
Address	No. 22, Jianguo E.Rd., Taoyuan City, Taoyuan, 330 Taiwan

Accounts Payable Contact

As for administrative contact

Information for Public Website

Availability Status	Unavailable
Date First Available	31 Jul 2018
Date Available Until	30 Jun 2023
Publication Status	Published
Publication Date	11 Jul 2018
Product Images	None Supplied
Product Website	None supplied
User Manual	None supplied

Section 2 - Product Details

Models

Model Number	FSP120-AHAN3
---------------------	--------------

Brand	FSP
Manufacturer	
Company Name	FSP Group Inc.
ABN	Not supplied
Address	No.22, Jianguo E. Rd., Taoyuan City, Taoyuan, 330 Taiwan
Contact Name	Mike Lin
Company Phone	886 3 3759888(1762)
Company Fax	886 3 3756966
Company Email	mike@fsp-group.com.tw
Company Website	Not Supplied
Manufacturing Countries	Taiwan

Availability

Date of First Availability	31 Jul 2018
Selling Countries	Australia
	Fiji
	New Zealand

Date of Manufacture

Method of Determination	No date mark
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Appliance Details

Product configuration	AC-DC
Nameplate Image	attachments/Label_FSP120-AHAN3_20180628.pdf
Nameplate input frequency range: Minimum:	50.0 Hz
Nameplate input frequency range: Maximum:	60.0 Hz
Nameplate input voltage range: Minimum	100.0 V
Nameplate input voltage range: Maximum	240.0 V
Output voltage check	False

Additional Nameplate Image Files

Model Details

Please provide information common to all models:

Nameplate output voltage:	12.0 V
Nameplate output power:	120.0 W

Please provide information specific to each model:

Brand name:	FSP
Model number:	FSP120-AHAN3

Test Results

Nameplate output voltage: Minimum	12.0 V
Nameplate output voltage: Maximum	12.0 V
Nameplate output power: Minimum	120.0 W
Nameplate output power: Maximum	120.0 W
No load input power: Minimum:	0.08 W
No load input power: Maximum:	0.08 W
Average active mode efficiency: Minimum:	90.07 %
Average active mode efficiency: Maximum:	90.07 %

Section 3 - Test Details

Test Report Information

Is a test report provided?	Yes - a test report is provided
Test Report Type	None
Test Standard Used	AS/NZS 4665.1:2005
Test Report Notes	None provided

Test Laboratory

Laboratory Name	FSP Group Inc.
Laboratory Type	Own Lab
Accreditation Type	None
Accreditation Number	None
Address	No. 22 Jianguo E. Road Taoyuan City, Taoyuan, 330 Taiwan

Test Report(s)

Report Number	V170516
Report Signatory	Jason Wei
Test Date	18 Oct 2017
Test Unit Serial Number	V170516-1
Test Report File	Supplied



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： CI437060015590 號 00

Certificate No.

茲據

全漢企業股份有限公司

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：

R43001

。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.

R43001

. Details of the registration are follows :

申請人：全漢企業股份有限公司

統一編號：84239055

Applicant

Uniform No.

地址：桃園市桃園區建國東路22號

Address

生產廠場：詳如附表

Factory

廠址：詳如附表

Factory Address

商品種類名稱：

Type/name of product

商品分類號列：8504.40.20.00.3-A

C.C.C Code

中文名稱：電源供應器

Chinese name

英文名稱：Switching Power Adapter

English name

型式：FSP120-AHAN3

Type

系列型式：FSP120-AHBN3(以下空白)

Series of the type

依據標準：符合CNS 15663第5節「含有標示」規定

102年版、CNS13438

Standards (95年版)、CNS14336-1 (99年版)

標準檢驗局發證(發證地址：100臺北市中正區濟南路1段4號)

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

登錄日期：中華民國 107 年 08 月 01 日

Registration Date 2018 (year) 08 (month) 01 (day)

本證書有效期限至 110 年 07 月 31 日

Expiration Date 2021 (year) 07 (month) 31 (day)

發證日期：中華民國 107 年 08 月 01 日

Date of issue 2018 (year) 08 (month) 01 (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。

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： CI437060015590 號 00

Certificate No.

生產廠場： 1. 無錫仲漢科技有限公司

Factory： 江蘇省無錫市國家高新技術產業開發區106-E號地塊

2. 仲漢電子(深圳)有限公司

廣東省深圳市寶安區福海街道塘尾社區聚源工業區A區A2廠房、
C區廠房4、6、7棟

3. 無錫全漢科技有限公司

江蘇省無錫市新區新梅路96號

4. 深圳市眾漢科技有限公司福永廠

廣東省深圳市寶安區福永街道塘尾社區聚源工業園B區廠房9棟

5. 深圳輝力電子有限公司

深圳市寶安區新安街道73區C4、C6、C7、C8、C9、C10、C11廠
房（在寶安區74區怡園路5185號廠房A3、寶安區福海街道和平
社區和平高新科技園和景工業區第B棟、G棟廠房等2處設有經營
場所從事經營活動）

（以下空白）



안전인증서 Safety Certificate

안전인증번호: HU10142-18180A
(Certificate No.)

제조업자/수입업자명: Zhonghan Electronics (Shenzhen) Co.,Ltd.
(Manufacturer/importer)

주 소: Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuYong Town, BaoAn Dist., Shenzhen City, Guangdong, China

제 품 명: 직류전원장치
(Product)

기본모델명: FSP120-AHAN3
(Basic Model)

파생모델명 (Series Model):

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

시험기준: K 60950-1(2011-12)
(Standard)

본 인증서는 제조국명: 중국

제조업자명: Zhonghan Electronics (Shenzhen) Co.,Ltd.

제조공장의 주소: Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuYong Town, BaoAn Dist., Shenzhen City, Guangdong, China
의 제품에만 해당함

「전기용품 및 생활용품 안전관리법 시행규칙」 제9조제2항, 제4항, 제10조제2항 또는 제15조제2항에 따라 안전인증서를 발급합니다.

We issue this Safety Certificate for the above appliances in accordance with the Article 9(2), 9(4), 10(2) or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2018 년 07 월 26 일
(Year) (Month) (Day)

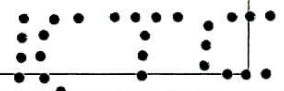


한국기계전기전자시험연구원
Korea Testing Certification



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

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



기 술 문 서 Technical Document

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안전인증번호: HU10142 -18180A
(Certificate No)

접수번호: 20180703 - 0052
(Receipt No)

1. 기본모델 · 파생모델의 내용 (General Descriptions of Certified Products)

1.1 제품의 설명 (Product description)

인증제품의 개요는 다음과 같다.

(Information on certified basic model product is as follow)

구분(Section)	내 용 (Description)
용도 (Normal use)	The apparatus designed to be used for converting AC main voltage to DC low voltage.
내부구조 (Internal construction)	The apparatus consists of Switching transformer, rectifying part etc.
외부구조 (External construction)	Providing with plastic enclosure having min. V-1 flammability and appliance inlet.
기타(Others)	Class I.

1.2 전기용품의 표시: 전기용품 및 생활용품 안전관리법 시행규칙 제20조(안전인증의 표시)에 따라 표시한다.
(Marking of KC Mark: Marking shall comply with the Article 20 of the Enforcement Rule of the
Electrical Appliances and Consumer Products Safety Control Act.)

1.3 등록모델 (Registered Models)

구 분 (Class)	모 델 명 및 정 격 (Model / Rating)	기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	FSP120-AHAN3 100-240 V~, 50-60 Hz, 2.0 A (O/P: 12 Vdc, 10 A)	

[서식 CP401-18-00]



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2. 안전관리 부품 및 재질목록(List of Critical Components)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer (Brand)	모델명(형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Plastic Enclosure	LOTTE ADVANCED MATERIALS CO LTD	HN-1064(+), EN-1052(+)	V-0 min., 1.75 mm thick min., 130℃ min.	UL
Appliance Inlet (SC101) (For model FSP120-AHAN3 used)	HCR ELECTRONICS CO LTD	SK01	10A, 250Vac	IEC
Appliance Inlet (SC101) (For model FSP120-AHAN3 used) (alt)	Tecx-Unions Technology Corporation	TU-301-A, TU-301-AP, TU-301-AP-A, TU-301-S, TU-301-SP	10A, 250Vac	IEC
Appliance Inlet (SC101) (For model FSP120-AHAN3 used) (alt)	Inalways Corporation	0711 series	10A, 250Vac	IEC
Appliance Inlet (SC101) (For model FSP120-AHAN3 used) (alt)	Inalways Corporation	0714-,-,-,- Series	10A, 250Vac	IEC
Appliance Inlet (SC101) (For model FSP120-AHAN3 used) (alt)	Solteam Electronics Co., Ltd.	ST-01	10A, 250Vac	IEC
Appliance Inlet (SC101) (For model FSP120-AHAN3 used) (alt)	Rong Feng Industrial Co., Ltd.	SS-120, SS-7B	10A, 250Vac	IEC
Appliance Inlet (SC101) (For model FSP120-AHAN3 used) (alt)	Rich bay Company Ltd.	R-301, R-301SN	10A, 250Vac	IEC
Appliance Inlet (SC101) (For model FSP120-AHAN3 used) (alt)	Zhe Jiang Bei Er Jia Electronic Co., Ltd.	ST-A01-001L, ST-A01-002L, ST-A01-003J, ST-A01-003K	10A, 250Vac	IEC

[서식 CP401-18-00]



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접수번호: 20180703 - 0052
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Appliance Inlet (SC101) (For model FSP120-AHAN3 used) (alt)	Canal Electronic Co., Ltd.	KS-101, KS-201, KS-202, KS-303, KS-406	10A, 250Vac	IEC
Fuse (F101)	Ever Island Electric Co Ltd & Walter Electric Co., Ltd.	2010 series, 2000 series	T4.0AL, 250V	IEC
Fuse (F101) (alt)	Littelfuse, Inc. Wickmann - Werke (VDE)	392, 382	T4.0AL, 250V	IEC
Fuse (F101) (alt)	Conquer Electronics Co., Ltd.	MST series, MET series	T4.0AL, 250V	IEC
Fuse (F101) (alt)	Bel Fuse Ltd.	RST-Serie(s)	T4.0AL, 250V	IEC
Fuse (F101) (alt)	Cooper Bussmann LLC	SS-5	T4.0AL, 250V	IEC
Varistor (VA101) (Optional)	Thinking Electronic Industrial Co., Ltd.	TVR10681-D, TVR10681-V, TVR14681, TVR14681-D	420Vac, 560Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR10751-D, TVR10751-V, TVR14751, TVR14751-D	465Vac, 615Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR10471-D, TVR10471-V, TVR14471, TVR14471-D	300Vac, 385Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR10561-D, TVR10561-V, TVR14561, TVR14561-D	350Vac, 450Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	Thinking Electronic Industrial Co., Ltd.	TVR10621-D, TVR10621-V, TVR14621, TVR14621-D	395Vac, 510Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D471K, 14D471K	300Vac, 385Vdc (Flame class of body coating complied with V- 0)	IEC

[서식 CP401-18-00]



기술문서

Technical Document

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(Certificate No)

접수번호: 20180703 - 0052
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Varistor (VA101) (Optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D561K, 14D561K	350Vac, 460Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D621K, 14D621K	385Vac, 505Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	10D681K, 14D681K	420Vac, 560Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	Guangxi New Future Information Industry Co., Ltd.	14D751K	460Vac, 615Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	EPCOS OHG (VDE)	S10K300, S10K300E2, S10K300E2K1, S14K300, S14K300E2, S14K300E2K1	300Vac, 385Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	EPCOS OHG (VDE)	S10K350E2K1, S14K350E2K1	350Vac, 460Vdc (Flame class of body coating complied with V- 0)	IEC
Varistor (VA101) (Optional) (alt)	EPCOS OHG (VDE)	S10K420, S10K420E2, S10K420E2K1, S14K420, S14K420E2, S14K420E2K1,	420Vac, 560Vdc (Flame class of body coating complied with V-0)	IEC
Varistor (VA101) (Optional) (alt)	EPCOS OHG (VDE)	S10K460, S10K460E2, S10K460E2K1, S14K460, S14K460E2, S14K460E2K1	460Vac, 615Vdc (Flame class of body coating complied with V- 0)	IEC
X-Capacitor (CX101) (Optional)	ZhuHai Sung Ho Electronics Co., Ltd.	CMPP	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Hua Jung Components Co., Ltd.	MKP	0.33uF max., 250Vac min.	IEC

[서식 CP401-18-00]



기술문서 Technical Document

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안전인증번호: HU10142 -18180A
(Certificate No)

접수번호: 20180703 - 0052
(Receipt No)

부품명 (회로기호) Components(Part no.)	제조사 (상표명) Manufacturer (Brand)	모델명 (형식) Model (Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
X-Capacitor (CX101) (Optional) (alt)	Carli Electronics Co., Ltd.	MPX	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Arcotronics (ENEC)	R.46	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Ultra Tech Xiphi Enterprise Co., Ltd.	HQX	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Chiefcon Electronics Co.,Ltd.	CKX	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Iskra, d d	KNB1530	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Iskra, d d	KNB1560, KNB1563, KNB1562	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Okaya Electric Industries Co., Ltd.	RE-Series	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Okaya Electric Industries Co., Ltd.	LE(-*)	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Pilkor Electronics Co., Ltd. (ENEC)	PCX2 337, PCX2 339	0.33uF max., 250Vac min.	IEC
X-Capacitor (CX101) (Optional) (alt)	Shiny Space Enterprise Co., Ltd.	SX1	0.33uF max., 250Vac min.	IEC
Controllor IC integrating capacitor discharging function (U601)	NXP Semiconductor Taiwan Ltd.	TEA19162T/2	100-240 Vac, 47-63 Hz	Tested by UL
Bridging Capacitor (CY104) (Y1 type) (optional)	TDK Corporation	CD, CD (miniature series)	3300pF max., 250V min.	IEC
Bridging Capacitor (CY104) (Y1 type) (optional) (alt)	Walsin Technology Corp.	AH, AS	3300pF max., 250V min.	IEC
Bridging Capacitor (CY104) (Y1 type) (optional) (alt)	Murata Mfg Co., Ltd.	KX	3300pF max., 250V min.	IEC
Bridging Capacitor (CY104) (Y1 type) (optional) (alt)	Success Electronics Co., Ltd.	SF, SE	3300pF max., 250V min.	IEC

[서식 CP401-18-00]



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안전인증번호: HU10142 -18180A
(Certificate No)

접수번호: 20180703 - 0052
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Optical Isolator (PC101)	Lite-On Technology Corporation	LTV-1008	Dti=0.4mm	VDE
Optical Isolator (PC101) (alt)	Everlight Electronics Co., Ltd.	EL1018, EL1019	Dti=0.4mm	VDE
Optical Isolator (PC101) (alt)	Cosmo Electronics Corp	KT10XX (XX=00- ZZ)	Dti=0.7mm	VDE
Optical Isolator (PC101) (alt)	Lite-On Technology Corporation	LTV-817	Dti=0.6mm	VDE
Optical Isolator (PC101) (alt)	Everlight Electronics Co., Ltd.	EL817.	Dti=0.5mm	VDE
Optical Isolator (PC101) (alt)	Vishay Semiconductor GmbH	TCLT1008	Dti=0.4mm	VDE
Optical Isolator (PC101) (alt)	Sharp Corp. Electronic Components and Devices Group	PC123	Dti=0.4mm	VDE
Optical Isolator (PC101) (alt)	Vishay Semiconductor GmbH (VDE)	SFH617A-..	Dti=0.6mm	VDE
Optical Isolator (PC101) (alt)	Vishay Semiconductor GmbH (VDE)	TCET1103G, TCET1104G, TCET1108G, TCET1109G, TCET1114G	Dti=0.5mm	VDE
Optical Isolator (PC101) (alt)	Vishay Semiconductor GmbH (VDE)	TCET1109	Dti=0.5mm	VDE
Optical Isolator (PC101) (alt)	Vishay Semiconductor GmbH (VDE)	VOL617A	Dti=0.43mm	VDE
Choke (LF101) (Optional) (no bobbin used)	FSP/SPI	8LM00352	130°C min.	-
Choke (LF102) (Optional) (no bobbin used)	FSP/SPI	8LM05152	130°C min.	-
Choke (L603) (Optional) (no bobbin used)	FSP/SPI	8LM01758	130°C min.	-
Choke (L603) (Optional) (no bobbin used) (alt)	FSP/SPI	8LM05338	130°C min.	-

[서식 CP401-18-00]



기술문서 Technical Document

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안전인증번호: HU10142 -18180A
(Certificate No)

접수번호: 20180703 - 0052
(Receipt No)

부품명 (회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Choke (L601)	FSP/SPI	8TI01942	130°C min.	-
-Bobbin (of L601)	Chang Chun Plastics Co., Ltd.	T375HF, T200HF	V-0, min. 150°C, phenolic, min. 0.45mm thickness	UL
-Bobbin (of L601) (alt)	Sumitomo Bakelite Co., Ltd.	PM-9823, PM-9750, PM-9630	V-0, min. 150°C, phenolic, min. 0.4mm thickness	UL
Choke (L601) (alt)	FSP/SPI	8TI01856	130°C min.	-
-Bobbin (L601)	Chang Chun Plastics Co., Ltd.	T375HF, T375Jv	V-0, min. 150°C, phenolic, min. 0.45mm thickness	UL
-Bobbin (L601) (alt)	Sumitomo Bakelite Co., Ltd.	PM-9823, PM-9630	V-0, min. 150°C, phenolic, min. 0.4mm thickness	UL
Transformer (T101)	FSP/SPI	8TT00573	Class B (UL insulation system no.: DJ- 130)	-
-Triple insulated wire (of T101)	Dah Jin Technology Co., Ltd.	TLW-B, TLW-BB	130°C min.	VDE
-Bobbin (of T101)	Sumitomo Bakelite Co., Ltd.	PM-9750, PM-9630	V-0, min. 150°C, phenolic, min. 0.4mm thickness	UL
-Case (of T101)	E I DUPONT DE NEMOURS & CO INC	FR533NH	V-0, min. 155°C, phenolic, min. 0.4mm thickness	UL
Bridge Diodes (BD101)	Interchangeable	Interchangeable	600V min., 10A min.	-
Electrolytic Capacitor (C601)	Interchangeable	Interchangeable	100uF, 420V min., 105°C min.	-
Bridge Resistors (R101,R102) (Optional)	Interchangeable	Interchangeable	Each max 1.5MΩ,min 1/4W	-
All PCB	Interchangeable	Interchangeable	V-1 min., 130°C min.	UL

[서식 CP401-18-00]



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안전인증번호: HU10142 -18180A
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3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2018/07/26	기본모델(Basic Model)

4. 기타(Carefully Informed Note)

- 안전관리부품 및 재질목록에 기재된 사항은 안전에 직접적인 영향을 주는 부분이므로 내용을 변경 또는 복수등재를 원하는 경우 안전인증변경신청 또는 안전확인변경신고를 하여야 합니다. 안전인증변경신청 또는 안전확인변경신고를 하지 않고 임의로 변경하는 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
The certificate holder should apply for a revision of the certificate if the registered critical components are to be changed, modified or alternated. Should the contents of Certificate are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Consumer Products Safety Control Act.
- 정기검사(시료채취포함)를 거부, 방해 또는 기피하는 경우에는 전기용품 및 생활용품 안전관리법 제11조에 따라 안전인증이 취소될 수 있습니다.
If Follow-up Factory Inspection, including sampling representative model by 11 categories of the certified product at factory-site for re-testing, should not has been arranged by Certificate holder, Safety Certification(KC Mark) may be withdrawn according to the Article 11 of the Electrical Appliances and Consumer Products Safety Control Act.
- 공장주소(전화번호포함), 대표자, 상호 및 부품변경, 신고인정보 등 안전인증 또는 안전확인신고의 내용이 변경되었을 때, 안전인증변경신청 또는 안전확인변경신고를 하지 않을 경우에는 전기용품 및 생활용품 안전관리법에 따라 행정조치 될 수 있습니다.
Should a factory address, president name, manufacturer name and critical component are altered without the application for the modification, the administrative measures can occur according to the Electrical Appliances and Customer Products Safety Control Act.
- 조건부 인증사항 (Conditional certification items):

[서식 CP401-18-00]



기술문서붙임자료

안전인증번호: HU10142-18180A

접수번호: 20180703-0052

No.1 표시사항



FSP GROUP INC.
全漢企業股份有限公司/全汉企业股份有限公司

Switching Power Adapter (電源供應器/电源适配器/직류전원장치)
Model No (型號/型号/모델명): FSP120-AHAN3
AC Input (輸入/输入/입력): 100-240V~, 2.0A, 50-60Hz
DC Output (輸出/输出/출력): 12V --- 10A
CAUTION(警告/警告/주의사항):
For use with Information Technology Equipment.
(適用於資訊類產品/适用于资讯类产品)
(본 제품은 실내용이며, IT제품에 사용하십시오.)
ATTENTIONS:
Pour les équipements de traitement de l'information.
Nur zur Verwendung mit informationstechnischen
Einrichtungen.

CAN ICES-3 (B)NMB-3(B)
This device complies with Part 15 of the FCC Rules.
Operation is subject to the following two conditions:
(1) this device may not cause harmful interference, and
(2) this device must accept any interference received,
including interference that may cause undesired operation.





www.fsp.com
10 1 020900030

제조사: Zhonghan Electronics (Shenzhen) Co., Ltd.
제조국가: 중국
최저소비효율기준 만족제품

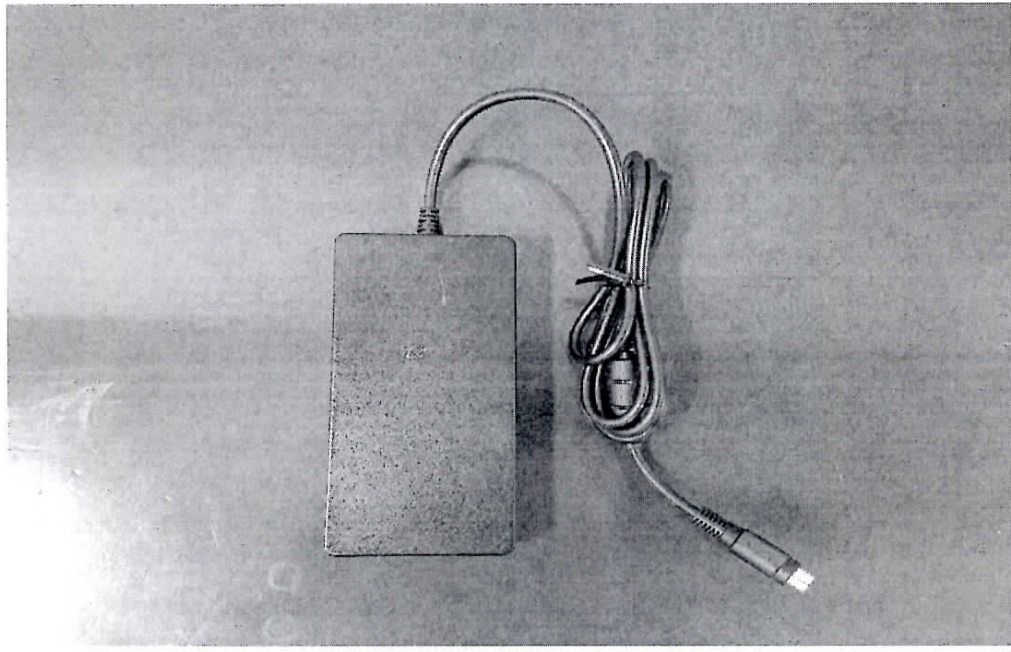



LISTED
I.T.E. POWER SUPPLY
E190414

EFFICIENCY LEVEL VI

MADE IN CHINA
(中國製造/中国制造)

No.2 외부사진



한국기계전기전자시험연구원
Korea Testing Certification



10/13禁止翻印外洩 All rights reserved

SFD-00002344-R01.pdf

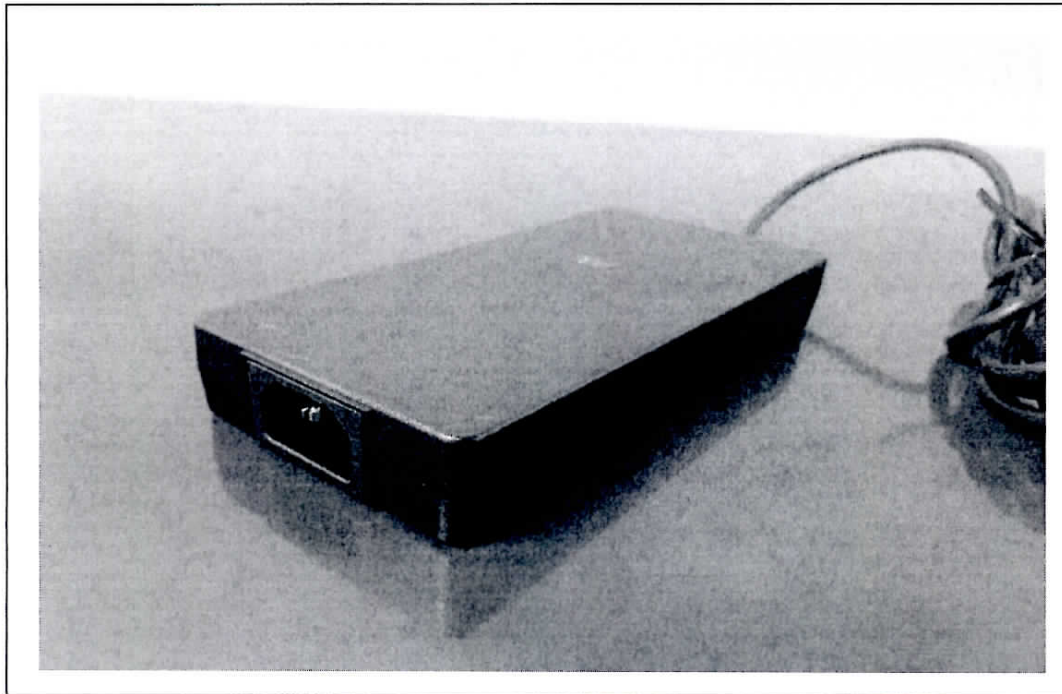
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기술문서붙임자료

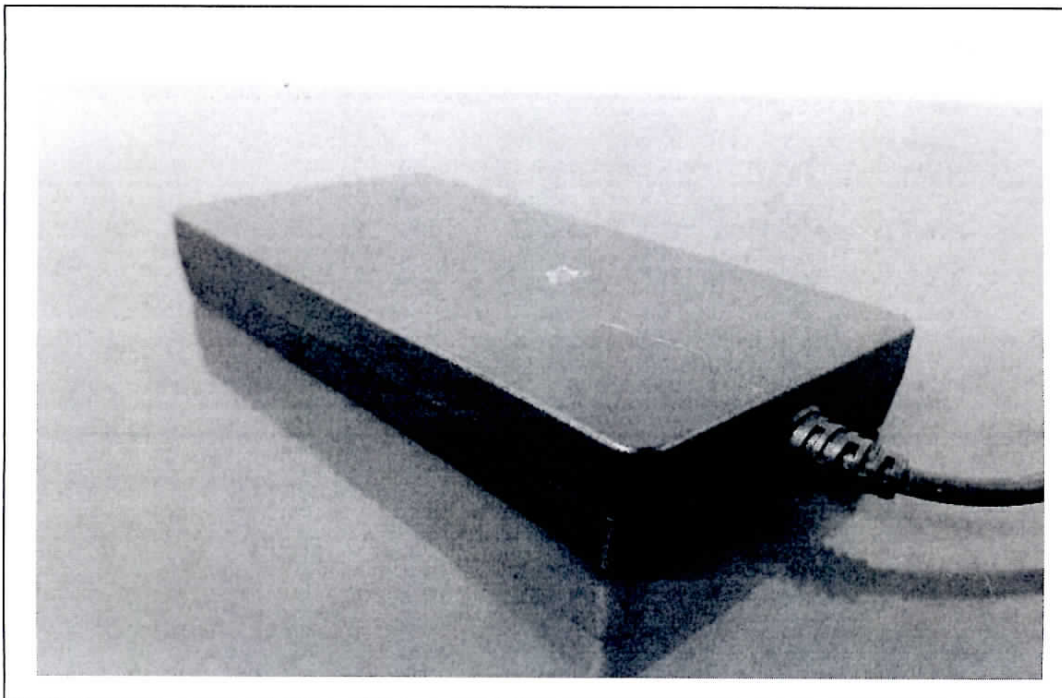
안전인증번호: HU10142-18180A

접수번호: 20180703-0052

No.3 외부사진



No.4 외부사진



한국기계전기전자시험연구원
Korea Testing Certification

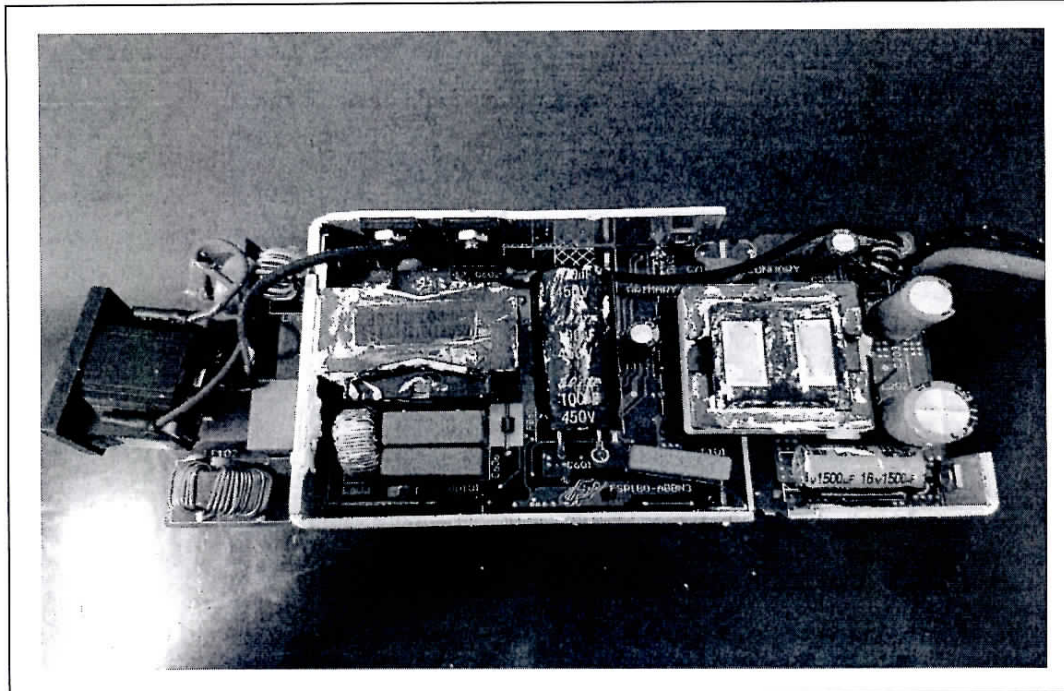


기술문서불임자료

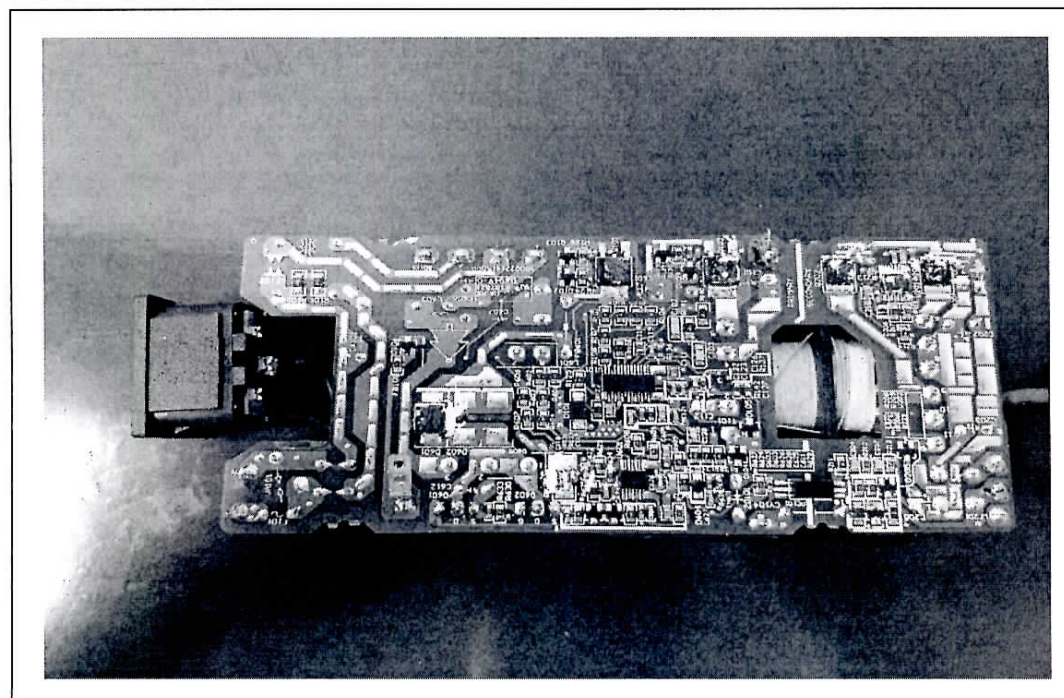
안전인증번호: HU10142-18180A

접수번호: 20180703-0052

No.5 내부사진



No.6 내부사진

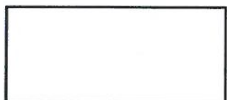


한국기계전기전자시험연구원
Korea Testing Certification



835C-5312-5164-2E1B

방송통신기자재등의 적합등록 필증 Registration of Broadcasting and Communication Equipments	
상호 또는 성명 Trade Name or Registrant	Zhonghan Electronics (Shenzhen) Co., Ltd.
기자재명칭(제품명칭) Equipment Name	Switching Power Adapter
기본모델명 Basic Model Number	FSP120-AHAN3
파생모델명 Series Model Number	
등록번호 Registration No.	R-REM-FSZ-FSP120-AHAN3
제조사/제조(조립)국가 Manufacturer/Country of Origin	Zhonghan Electronics (Shenzhen) Co., Ltd. / 중국
등록연월일 Date of Registration	2018-07-19
기타 Others	
위 기자재는 「전파법」 제58조의2 제3항에 따라 등록되었음을 증명합니다. It is verified that foregoing equipment has been registered under the Clause 3, Article 58-2 of Radio Waves Act. 2018년(Year) 07월(Month) 19일(Day) 국립전파연구원장 Director General of National Radio Research Agency ※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다. 위반시 과태료 처분 및 등록이 취소될 수 있습니다.	



효율관리기자재 신고 확인서

접 수 번 호	: 125181116
품 목 명	: 어댑터
업 체 명	: (주)에프에스피테크놀로지코리아
업 체 대 표 번 호	: 214-88-30853
모 델 명	: FSP120-AHAN3
효 율 등 급	: 최저소비효율기준만족
명판표시출력전력(W)	: 120
동작효율(%)	: 90.1
무부하모드 소비전력(W)	: 0.02
동작효율 MEPS(%)	: 84

『에너지이용합리화법』 및 "효율관리기자재 운용규정"
(산업통상자원부 고시)에 따라 상기 효율관리기자재가 신고되었음을
확인합니다.

효율관리기자재 신고확인서에 기재된 제품사양 및 효율 등의 내용은 신고업체의
책임 하에 기재된 사항이오니, 신고내용에 대한 문의는 해당업체에 문의하시기
바랍니다.

2018년08월22일

한국에너지공단 이 사



우)16842 경기도 용인시 수지구 포은대로 388 (풍덕천2동 1157번지)

請填寫相關資訊

Please fill in the relevant information :

公司名稱 Company name : 全漢企業股份有限公司

公司負責人 Company Responsible Person : 鄭雅仁

立書人 Declarant : 高挺晏

立書人職稱 Declarant's Title : 業務

本聲明書生效日期 Effective Date of this Declaration : 2017.8.28



請勾選本聲明書適用範圍

Please Select the Scope of this Declaration :

☒ 提供給研揚的全部產品 All Products provided to AAEON

☐ 研揚料號 AAEON Part Number :



☐ 原廠料號 Manufacturer Part Number :

全漢企業股份有限公司

(填寫公司名稱) 響應全球綠色環保法規或其他法律，保證如下事項：

FSP TECHNOLOGY INC. (Fill in Company name) Response to global green environmental protection regulations or other laws, guarantee the following matters:

一、產品符合歐盟 RoHS (2011/65/EU)* 規範。

The product complies with EU RoHS (2011/65/EU) norms.

- i. 歐盟於 2015 年 6 月 4 日公布指令 (EU) 2015/863，將四項可塑劑 DEHP, BBP, DBP and DIBP 增加至 Annex II 清單中，限值仍為 1000ppm，從 2019 年 7 月 22 日起需符合此要求，作為供應商，如果有包含上述物質，務必主動通知研揚。

EU announce with (EU)2015/863 that DEHP, BBP, DBP and DIBP are primarily used to soften plastics, that will be restricted from **22 July 2019** for all electrical and electronic equipment. As suppliers, if your components content with above substances, please inform to AAEON related people.

管制文件,不可任意複製/更改
Regulatory documents that can not be arbitrarily Copy / Change

不使用限用物質聲明書

Non-use of restricted substances statement

QD4-089 Rev.B2

- ii. 當作為包材類的材料，也須符合歐盟包裝指令(94/62/EC) 與修訂指令(2013/2/EU)
When used as package material, it also needs to comply with EU package directive (94/62/EC) and amendment (2013/2/EU)
Note: Pb+Cd+Hg+Cr⁶⁺ <100 ppm
- iii. 若為電池零件，也須符合電池指令 2006/66/EC 與修訂指令 2013/56/EU
For battery components, it also needs to comply with EU battery directive (2006/66/EC) and amendment (2013/56/EU)
Note: Cd<20ppm; Hg <5ppm

二、產品符合衝突金屬(Conflict Metal)規範，並確認銷售產品若有含錫、鉭、鎢、金這四種礦產，來源並非來自剛果民主共和國及其周邊國家剛果、烏干達、蘇丹、坦桑尼亞、盧旺達、安哥拉、贊比亞、布隆迪。

The product complies with the conflict metal norms, and confirm that your company selling products contain tin、tantalum、tungsten、gold four mineral, those sources are not come from Democratic Republic of the Congo and its neighboring countries of Congo、Uganda、San、Tanzania、Rwanda、Angola、Zambia、Burundi.

三、產品符合歐盟最新REACH (EC 1907/2006) 規範，
高關注物質(SVHC)，不超過 0.1%上限，以重量計算。

備註：請參照歐盟化學總署(ECHA)網站，最新的高關注物質清單。

This product complies with latest EU REACH (EC 1907/2006) norms.

The SVHC, are not over 0.1% threshold by weight.

Note: Please check ECHA website for latest SVHC list: <https://echa.europa.eu/candidate-list-table>

立書人提供給研場的所有文件（含測試報告、聲明書、調查表等文件），均正確屬實並且完整。

All documents (including test reports, declarations, survey forms, etc.) provided by Declarant to AAEON shall be correct, true and complete.

如有違背此保證聲明書的規定，全漢企業股份有限公司 將承擔法律責任並賠償研場所受直接及實際之損害，惟損害賠償的項目與金額須由雙方協商同意之。

If violates any provision of this Declaration, FSP TECHNOLOGY INC.

shall take legal responsibilities and compensate AAEON for direct and actual damages and losses caused by this violation. The compensation items and amounts shall be discussed and agreed by both parties.

管制文件,不可任意複製/更改
Regulatory documents that can not be arbitrarily Copy / Change