

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 : 9NA1206756
Customer P/N : 1255X00088
Remark : ROHS 機種

Item	Contents
01	Mechanical Drawing
02	Specification
03	Safety Certificates

Date: 2023/7/27 REV: 0

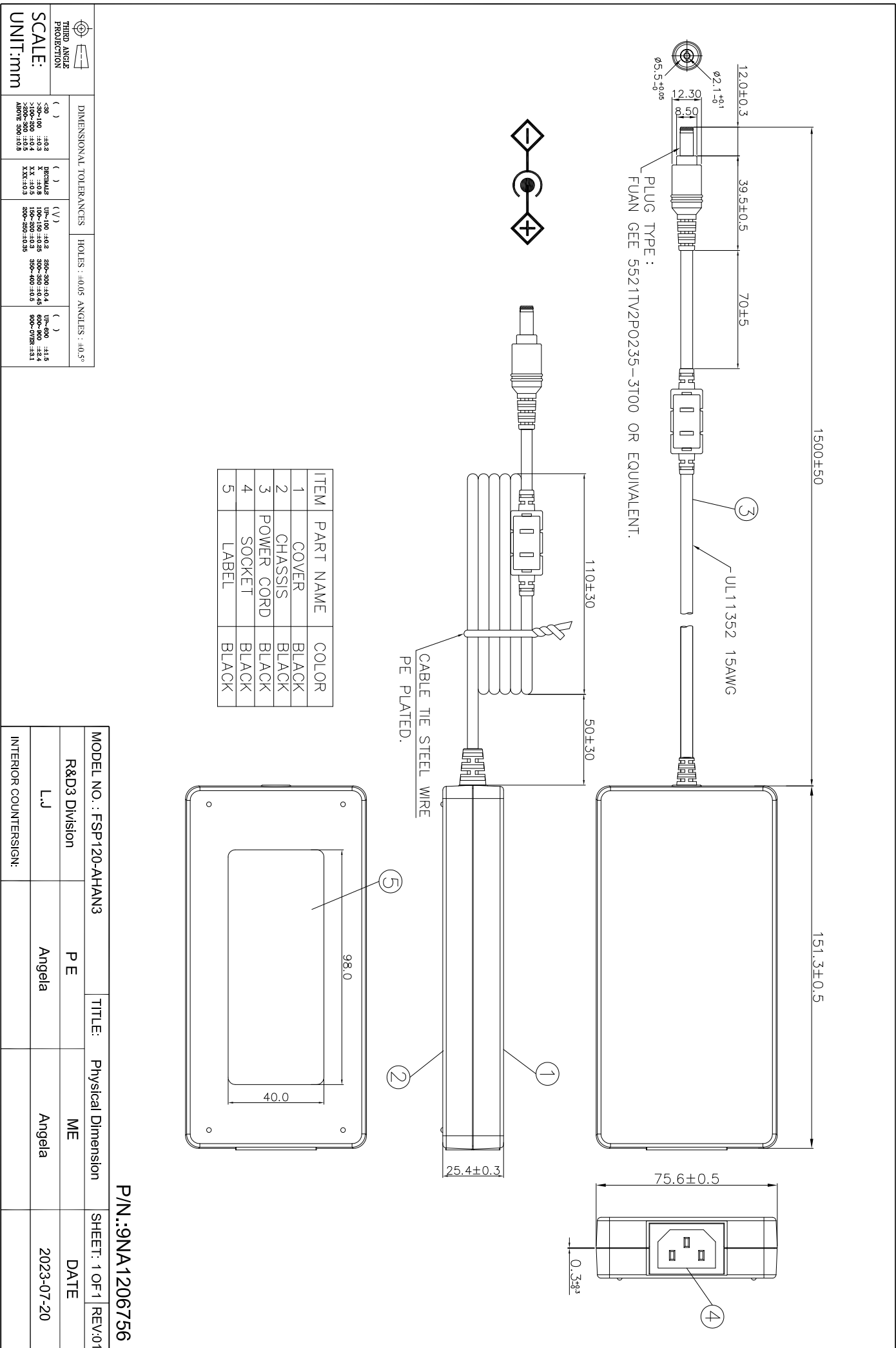
MECHANICAL DRAWING



OAD-00011318

FSP120-AHAN3

Date:2023-07-21 11:13



SPECIFICATION



ESD-00000431

FSP120-AHAN3

Date:2023-07-20 15:47



全漢企業股份有限公司
FSP TECHNOLOGY INC.

台灣桃園市桃園區建國東路22號 統一編號：84239055
No. 22, Jianguo E. Rd., Taoyuan Dist., Taoyuan City 330, Taiwan (R.O.C)
TEL:+886-3-375-9888 Website:www.FSP-group.com
FAX:+886-3-375-6966 Email:sales@fsp-group.com.tw

SPECIFICATION

AC Adapter

FSP120-AHAN3

P.E	R/D	APPROVED	REV.
Zhiling Guo	Stephen Li	LJ Wei	04



全漢企業股份有限公司
FSP TECHNOLOGY INC.

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>	Revise : 1.9 DOE(Level VI) 1.10 Erp(Tier 2) 4.8 Dielectric Strength	Oct.02'17	Vivian	Zhiling Guo	Stephen Li	LJ Wei
<u>02</u>	Revise : 4.5 EMI: Adapter comply with the following national standards	Dec.03'17	Vivian	Zhiling Guo	Stephen Li	LJ Wei
<u>03</u>	Revise : 1.10 Erp(Level VI)	Nov.30'19	Vivian	Zhiling Guo	Stephen Li	LJ Wei
<u>04</u>	Revise : 1.9 U.S. DOE 1.10 EU ErP 4.8 Dielectric Strength: (Hi-Pot)	Jun.25'20	Vivian	Zhiling Guo	Stephen Li	LJ Wei

MODEL NO. **FSP120-AHAN3**

SHEET 1 OF 7



全漢企業股份有限公司
FSP TECHNOLOGY INC.

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:	100Vac, 240Vac / 10A load	Shall be less than the rating of adapter critical component (including rectifiers, fuse surge and current limiting device)
1.9 U.S. DOE:	(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) Compliance with efficiency level VI
1.10 EU ErP:	(1)230Vac / 0A load (2)230Vac / 25%,50%,75%,100% load (Average Active Mode Efficiency ,Warm up 30 minutes later)	≤ 0.21W ≥ 88% (DC Cable ≤ 1500 mm,15AWG)

MODEL NO. **FSP120-AHAN3**

SHEET 2 OF 7



全漢企業股份有限公司
FSP TECHNOLOGY INC.

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 ± 5%
2.4 Output Voltage Ripple and Noise: (0.1uF Ceramic Cap. and 35V 47uF Aluminum Cap. Paralleled between the end of output cable)	100Vac, 240Vac / 0A~10A load	≤ 350mVp-p
2.5 Turn-On Delay Time:	At 100Vac / 10A load, output voltage shall remain regulation	≤ 3Sec
2.6 Hold Up Time:	At 100Vac or 240Vac / 10A load, output voltage shall remain regulation	≥ 10ms
2.7 Rise Time:	At 100Vac / 10A load, DC output rise time from 5% to 95% of Vo	≤ 50ms
2.8 Dynamic Load Change:	(1) Output load step is : 【1】 0 % ~50 % 【2】 50 %~100 % (2) S/R=0.5A/us (3) Frequency is 100Hz and 1KHz	12V ± 10%
2.9 Overshoot:	100Vac, 240Vac / 0A and 10A load	12V ± 10%

MODEL NO. **FSP120-AHAN3**

SHEET 3 OF 7



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.	Shutdown and no damage
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

MODEL NO. **FSP120-AHAN3**

SHEET 4 OF 7



全漢企業股份有限公司
FSP TECHNOLOGY INC.

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 $\pm 2\text{kV}$ applied common mode	Normal operation shall be continued 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
4.6 Safety conforming: 4.6.1 Energy-related Products 【ErP】 Department of Energy 【DOE】		Regulated by customer 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(or AC 3000V) / test time 1 minute / cut off current shall be less than 10mA	
4.9 Temperature:	Operating Storage	0 to 40°C -20 to +80°C
4.10 Humidity:	Operating Storage	20% ~ 80% 10% ~ 90%

MODEL NO. **FSP120-AHAN3**

SHEET 5 OF 7



全漢企業股份有限公司
FSP TECHNOLOGY INC.

Electrical Specification

5. Mechanical Characteristics:

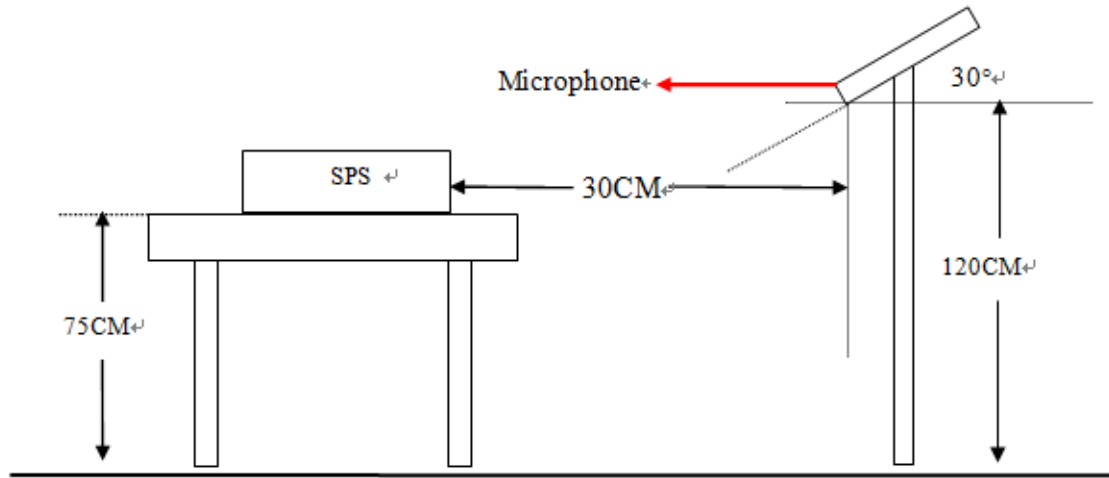
ITEM	CONDITION	SPECIFICATION
5.1 Dimension (Length x Width x Height):		151.3 X 75.6 X 25.4 mm
5.2 Adapter weight:		485g(typical)
5.3 Input AC socket Type:		IEC 320-C14 Type
5.4 Vibration Test:	(1) Non-operating, 0.01g ² /Hz at 5Hz slopping to 0.02g ² /Hz at 20Hz, And maintain 0.02g ² /Hz from 20Hz ~ 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

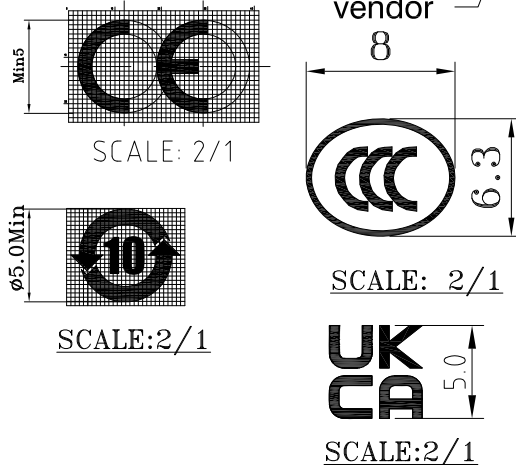
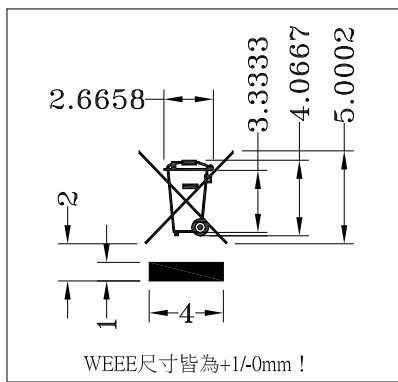
MODEL NO. **FSP120-AHAN3**

SHEET 6 OF 7

Electrical Specification

Note : Acoustic Noise





- NOTES:
- MATERIAL: WHITE POLYESTER + MYLAR COATING(半霧面), t=0.15±0.05mm.
 - ADHESIVE: # K.K. NO. 9 OR EQUIVALENT.
 - BACKGROUND'S COLOR: BLACK. WORD'S COLOR: WHITE
 - "~" LABEL VENDER IN ENGLISH NAME, 2 LETTERS.
 - LABEL MUST BE DIE CUT PROPERLY AS PER DIMENSION.
 - LABEL MUST BE UL RECOGNIZED: PGDQ2 OR PGJ12 AND CSA CERTIFIED: Plastic Group III(polycarbonate).
 - 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.
 - DIMENSIONS MARKED * MARK MUST BE INSPECTED AND CONTROLLED STRICTLY BY IQC.
 - THE PLASTIC MATERIAL OF APPLICATION SURFACE FOR THIS LABEL IS PC.
 - ALL SPECIFICATION MUST BEEN APPROVED BY DESIGN ENGINEER.
 - UNFOUNDED TOLERANCE: ±0.2mm.
 - THE FINISHED LABEL GOODS SHOULD ALL THE SAME AS THIS DRAWING; INCLUDING: FONT TYPE, SYMBOLS, CONTENT, SIZE, POSITION,ETC.
 - 黏貼於PC塑膠材質,表面屬於光面或是鏡面

SCALE:
UNIT: mm

P/N.: 6LL2322901GP

MODEL NO. :	FSP120-AHAN3	TITLE:	SPEC LABEL	SHEET: 1 OF 1	REV: 01
R&D3 Division	PE	ME	DATE		
L.J	Melody	Melody	2022-08-18		
INTERIOR COUNTERSIGN:					

Ref. No. VXD0874A/2022

Page: 1 of 1

VERIFICATION OF COMPLIANCE

Issue Date: April 18, 2022
Applicant: FSP Group Inc.
Address: No 22, Jianguo East Road, Taoyuan City,
Taiwan 330, R.O.C.

Manufacturer: N/A
Address: N/A
Contact Information: Web: N/A
TEL#: N/A
E-mail#: N/A

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

Applicable Standards: EN 55032: 2015 / A11: 2020 + A1: 2020
CISPR 32: 2015 (Ed 2.0) / C1: 2016
AS/NZS CISPR 32: 2015
BS EN 55032: 2015 / A11: 2020 + A1: 2020
EN IEC 61000-3-2: 2019 / A1: 2021
BS EN IEC 61000-3-2: 2019 / A1: 2021
EN 61000-3-3: 2013 / A2: 2021
BS EN 61000-3-3: 2013 / A2: 2021
EN 55035: 2017 / A11: 2020
BS EN 55035: 2017 / A11: 2020
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 + COR1: 2015; IEC 61000-4-8: 2009;
IEC 61000-4-11: 2004 + A1: 2017

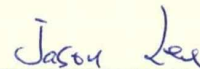
Test Laboratory: Compliance Certification Services Inc.
Xindian Lab
No. 163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, Taiwan

Test Report No.: TMXD2202000834DE, dated on April 18, 2022

Conclusion: Based upon a review of the Test Report(s), the tested sample of the product mentioned above is deemed to comply with the requirements of the above standards.

Note: This verification is only valid for the product and configuration described and in conjunction with the test report as detailed above.

Authorised Signatory:



Compliance Certification Services Inc.

Jason Lee

Section Manager

FM-023A-R01

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

Ref. No. VXD1442A/2021

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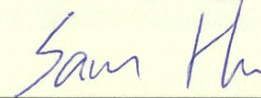
VERIFICATION OF COMPLIANCE

Issue Date: June 21, 2021
Applicant: FSP Group Inc.
Address: No 22, Jianguo East Road, Taoyuan City,
Taiwan 330, R.O.C.
Manufacturer: N/A
Address: N/A
Contact Information: Web: N/A
TEL#: N/A
E-mail#: N/A
Product: Switching Power Adapter
Brand Name/Trade Mark: FSP; Protek; Axis
Model/Type: FSP120-AHAN3
Added Model(s): FSP120-AHBN3; PUP120N3-12yyyyy; PUP120N3S-12yyyyy(y=0-9,
A-Z, hyphen or blank)
Applicable Standards: FCC 47 CFR Part 15 Subpart B
ANSI C63.4: 2014
ISED ICES-003 (Issue 7)
Test Laboratory: Compliance Certification Services Inc.
Xindian Lab
No. 163-1, Jhongsheng Rd., Xindian Dist.,
New Taipei City, Taiwan
Test Report No.: T210525D08-D, dated on June 21, 2021

Conclusion: Based upon a review of the Test Report(s), the tested sample of the product mentioned above is deemed to comply with the requirements of the above standards

Note: This verification is only valid for the product and configuration described and in conjunction with the test report as detailed above.

Authorised Signatory:



Compliance Certification Services Inc.

Sam Hu

Assistant Manager

FM-023A-R01

	Ref. Certif. No.
	JPTUV-084755-A3

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


CB TEST CERTIFICATE

Product	Switching Power Adapter
Name and address of the applicant	FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan
Name and address of the manufacturer	FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan
Name and address of the factory	See additional page(s)
Ratings and principal characteristics	Input : AC 100-240V; 2.0A; 50-60Hz; Class I Output: DC 12V; 10A
Trademark (if any)	FSP
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	FSP120-AHAN3 , FSP120-AHBN3
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report. Re-issue of JPTUV-084755-A2 dated 27.12.2019, due to non-technical change.
A sample of the product was tested and found to be in conformity with	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	50107299 005

This CB Test Certificate is issued by the National Certification Body



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



 Dipl.-Ing. F. Stoelzel

Date: 2021-12-22

Signature:

10/061 CB 06/2016 IK

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	Ref. Certif. No.
	JPTUV-084755-A3

Page 2 of 3

1. 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
2. Wuxi SPI Technology Co., Ltd.
No. 96, Xinmei Road,
New District, Wuxi city
Jiangsu
P.R. China
3. 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
4. ShenZhen HuiLi Electronics CO., LTD
Building C4-C11, No. 352,
LiuTang Rd., County 73,
Bu'Xin Village, Xin'an, Bao'an, Shenzhen,
Guangdong, P.R. China
5. ShenZhen HuiLi Electronics CO., LTD
Building C4(101~301)-C11, No. 352,
LiuTang Rd., County 73, Bu'Xin Village, Xin'an,
Bao'an, Shenzhen,
Guangdong, P.R. China
6. Wuxi ZhongHan Technology Co., Ltd.
Block 106-D,
Wuxi Nation HI-TECH Industrial Development Zone,
Wuxi City, Jiangsu Province
P.R. China
7. FSP Technology Inc. Taoyuan Plant 3
5F., No. 6, 4F., No. 6,
No.6, Xinglong Rd.,
Taoyuan Dist., Taoyuan City, 330
Taiwan

Additional information (if necessary)

Report Ref. No. : 50107299 005


Date: 2021-12-22

Signature:



Dipl.-Ing. F. Stoelzel

Disclaimer: This is an electronically released document. The authenticity of this certificate can be verified on the IECEE Website "<http://certificates.iecee.org>"

	Ref. Certif. No.
	JPTUV-084755-A3

8. ZHONGHAN SCIENCE & TECH CO. LTD
Building 8 & 9, Section B,
JuYuan Industrial Zone,
ChiaoTang Rd., TangWei Village, FuHai Town,
BaoAn District. ShenZhen City, Guangdong, P.R. China

Additional information (if necessary)

Report Ref. No. : 50107299 005

Date: 2021-12-22

Signature:



Dipl.-Ing. F. Stoelzel

	Ref. Certif. No.
	JPTUV-084755-A2

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

CB TEST CERTIFICATE

Product	Switching Power Adapter
Name and address of the applicant	FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan
Name and address of the manufacturer	FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan
Name and address of the factory	See additional page(s)
Ratings and principal characteristics	Input : AC 100-240V; 2.0A; 50-60Hz; Class I Output: DC 12V; 10A
Trademark (if any)	FSP
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	FSP120-AHAN3 , FSP120-AHBN3
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report. Re-issue of JPTUV-084755-A1 dated 26.09.2018, due to non-technical change.
A sample of the product was tested and found to be in conformity with	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	50107299 004


This CB Test Certificate is issued by the National Certification Body



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: 27.12.2019

Signature:


Jerry F. R. Yang



Ref. Certif. No.

JPTUV-084755-A2

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
Building B & G,
Peace Hi-tech Industrial Zone,
Peace Village, FuHai Town,
Bao'an, Shenzhen, Guangdong 518102, P. R. China
7. Ziqiang Factory of FSP Technology Inc.
2F., No.722, Ziqiang S. Rd., Guishan
Dist., Taoyuan City 333
Taiwan
8. ShenZhen HuiLi Electronics CO., LTD
Building C4-C11, No. 352,
LiuTang Rd., County 73,
Bu'Xin Village, Xin'an, Bao'an, Shenzhen,
Guangdong, P. R. China


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

Report Ref. No.: 50107299 004

Model FSP120-AHAN3 is equivalent to Cisco P/N (CPN)
34-100355-XX, where X may be any alphanumeric characters or
blank.

Date: 27.12.2019

Signature:


Jerry F. R. Yang

	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

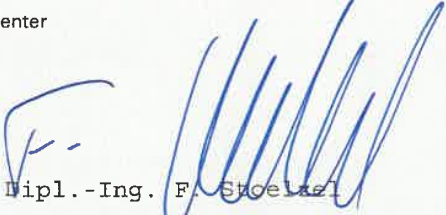
As shown in the Test Report Ref. No. which forms part of this Certificate
Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat

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



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


Dipl.-Ing. F. Stoelzel

Date: 26.09.2018

Signature:

	Ref. Certif. No.
	JPTUV-084755-A1

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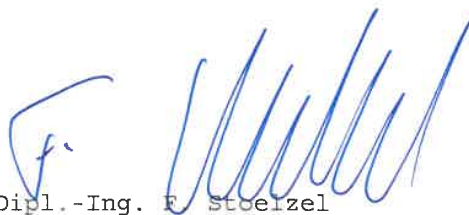
1. ShenZhen HuiLi Electronics CO., LTD
Block C, Building 4,6,7,8,9,10,11,
County 73, Xin'an, Bao'an,
Shenzhen, Guangdong
P. R. China
2. Zhonghan Electronics (Shenzhen)
Co., Ltd. Building A2 in Section A,
Building 4,6,7 in Section C,
JuYuan Industrial Zone,
TangWei Village, FuHai Town, BaoAn Dist., ShenZhen 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
----------------------------	------------------------------

<p>Product Produit</p> <p>Name and address of the applicant Nom et adresse du demandeur</p> <p>Name and address of the manufacturer Nom et adresse du fabricant</p> <p>Name and address of the factory Nom et adresse de l'usine</p> <p>Ratings and principal characteristics Valeurs nominales et caractéristiques principales</p> <p>Trademark (if any) Marque de fabrique (si elle existe)</p> <p>Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur</p> <p>Model / Type Ref. Ref. de type</p> <p>Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2^{ème} page)</p> <p>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</p> <p>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</p>	<p>Switching Power Adapter</p> <p>FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan</p> <p>FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan</p> <p>See additional page(s)</p> <p>Input : AC 100-240V; 2.0A; 50-60Hz; Class I Output: DC 12V; 10A</p> <p>FSP</p> <p>N/A</p> <p>FSP120-AHAN3 , FSP120-AHBN3</p> <p>For model differences, refer to the test report.</p> <p>IEC 60950-1:2005+A1+A2 See Test Report for National Differences</p> <p>50107299 001</p>
--	---

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

	<p>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</p>	 Signature: Robert Kong
Date: 06.12.2017		

10/061 CB 05.12

IEC

IECEE
CB
SCHEME

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-A2

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

CB TEST CERTIFICATE

Product	Switching Power Adapter
Name and address of the applicant	FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan
Name and address of the manufacturer	FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan
Name and address of the factory	See additional page(s)
Ratings and principal characteristics	Input : 100-240Va.c.; 2.0A; 50-60Hz; Class I Output: 12Vd.c.; 10A
Trademark (if any)	FSP
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	FSP120-AHAN3 , FSP120-AHBN3
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report. Re-issue of JPTUV-084736-A1 dated 26.09.2018, due to non-technical change.
A sample of the product was tested and found to be in conformity with	IEC 62368-1:2014 See Test Report for National Differences
As shown in the Test Report Ref. No. which forms part of this Certificate	50107297 004


This CB Test Certificate is issued by the National Certification Body



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: 27.12.2019

Signature:


Jerry F. R. Yang



Ref. Certif. No.

JPTUV-084736-A2

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
Building B & G,
Peace Hi-tech Industrial Zone,
Peace Village, FuHai Town,
Bao'an, Shenzhen, Guangdong 518102, P. R. China
7. Ziqiang Factory of FSP Technology Inc.
2F., No.722, Ziqiang S. Rd., Guishan
Dist., Taoyuan City 333
Taiwan
8. ShenZhen HuiLi Electronics CO., LTD
Building C4-C11, No. 352,
LiuTang Rd., County 73,
Bu'Xin Village, Xin'an, Bao'an, Shenzhen,
Guangdong, P. R. China


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


Report Ref. No.: 50107297 004

Model FSP120-AHAN3 is equivalent to Cisco P/N (CPN)
34-100355-XX, where X may be any alphanumeric characters or
blank.

Date: 27.12.2019

Signature:


Jerry F. R. Yang

	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




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

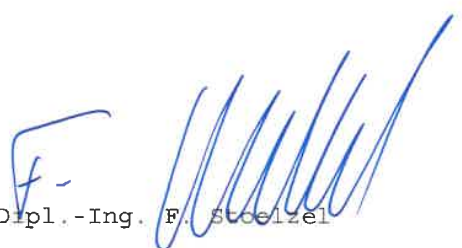
1. ShenZhen HuiLi Electronics CO., LTD
Block C, Building 4,6,7,8,9,10,11,
County 73, Xin'an, Bao'an,
Shenzhen, Guangdong
P. R. China
2. Zhonghan Electronics (Shenzhen)
Co., Ltd. Building A2 in Section A,
Building 4,6,7 in Section C,
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TangWei Village,FuHai Town, BaoAn Dist.,ShenZhen City,Guangdong, P. R. China
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New District, Wuxi city, Jiangsu
P. R. China
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Building 9, Section B, JuYuan
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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. Stoezel

	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
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.

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

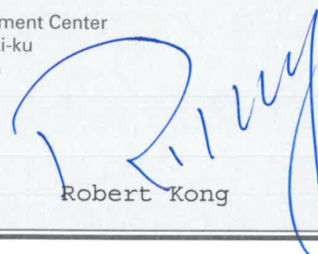
As shown in the Test Report Ref. No. which forms part
of this Certificate
Comme indiqué dans le Rapport d'essais numéro de
référence qui constitue partie de ce Certificat

50107297 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



Date: 06.12.2017

Signature:

Robert Kong

	Ref. Certif. No.
	JPTUV-084736

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,
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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.: 50107297 001

Date: 06.12.2017

Signature:



Robert Kong

CERTIFICATE OF COMPLIANCE

Certificate Number 20180928-E190414
Report Reference E190414-20180111
Issue Date 2018-SEPTEMBER-28

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, Models FSP120-AHAN3,
FSP120-AHBN3, PUP120N3-12yyyyy, PUP120N3S-
12yyyyy (y=0-9, A-Z, hyphen or blank for marketing
purpose).

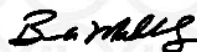
Have been investigated by UL in accordance with the
Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 62368-1 and 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/>





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	Directives
IEC62368-1:2014 IEC60950-1:2005+A1+A2 EN 62368-1:2014+A11 EN 60950-1:2006+A11+A1+A12+A2	2014/35/EU(Low Voltage Directive)
EN 55032:2015 /AC:2016 EN 55024:2010+A1:2015	2014/30/EU (EMC Directive)
IEC 61000-3-2:2014 EN 61000-3-2:2014 IEC 61000-3-3:2013 EN 61000-3-3:2013	
(EU) 2019/1782 EN50563:2011/A1:2013	Commission Regulation 2009/125/EC (ErP Directive)
EN 50581: 2012	2011/65/EU (RoHS Directive)

Signature: Allen Cheng
Print Name: Allen Cheng
Title: President

Date: 2020.1.21
Place: Taoyuan, Taiwan



中国国家强制性产品认证证书

证书编号：2018010907098377

发证日期：2022年08月23日

有效期至：2023年07月27日

认证委托人名称 全汉企业股份有限公司
及注册地址 台湾桃园市桃园区建国东路22号

产品生产者名称 全汉企业股份有限公司
及注册地址 台湾桃园市桃园区建国东路22号

生产企业名称 仲汉电子(深圳)有限公司
及生产地址 深圳市宝安区福海街道塘尾社区聚源工业园C区厂房4栋101及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 GB 17625.1-2012;GB 4943.1-2011;GB/T 9254.1-2021

上述产品符合 CNCA-C09-01:2014 认证规则的要求，特发此证。
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。
本证书为变更证书，证书首次颁发日期：2018年07月27日
经中国合格评定国家认可委员会认可 CNAS C001-P

可通过扫描下方二维码或登录国家认监委网站（www.cnca.gov.cn）查验证书信息



签发：谢肇煦



中国质量认证中心



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

CERTIFICATE NO.: 2018010907098377

Valid from: Aug.23,2022

Valid until: Jul.27,2023

NAME AND REGISTERED ADDRESS OF THE APPLICANT	FSP Group Inc. No.22,JianGuo E.Rd.,TaoYuan City,TaiWan
NAME AND REGISTERED ADDRESS OF THE MANUFACTURER	FSP Group Inc. No.22,JianGuo E.Rd.,TaoYuan City,TaiWan
NAME AND LOCATION OF THE FACTORY	Zhonghan Electronics (Shenzhen) Co., Ltd. Building 4(101) & Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, China
PRODUCT MODEL(S)	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)
STANDARDS AND TECHNICAL REQUIREMENTS	GB 17625.1-2012;GB 4943.1-2011;GB/T 9254.1-2021

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)

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

Date of original issued: Jul.27,2018

Accredited by China National Accreditation Service for Conformity Assessment CNAS C001-P

The certificate information is available through the QR code below or CNCA's website: www.cnca.gov.cn



SIGNATURE:

谢肇煦



CHINA QUALITY CERTIFICATION CENTRE

**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

A blue ink signature of Andreas Klinker.

Andreas Klinker

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

TUV Rheinland Australia Pty Ltd
182 Dougharty 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:

- a. The end of the model's maximum registration term;
- b. 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
- c. 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

商品驗證登錄電子證書

CERTIFICATE OF THE REGISTRATION OF PRODUCT CERTIFICATION




證書號碼： CI437060015590 號 99

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：8504.40.91.00.7-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：CNS13438 (95年版)、CNS14336-1 (99年版)、符合CNS 15663第5節「含有標

Standards 示」規定 (102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)

本證書以電子文件行之，所載內容若有不符之處，以標準局電腦資料為主，查詢驗證資料

網址：<https://civil.bsmi.gov.tw>

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 113 年 07 月 31 日

Expiration Date 2024 (year) 07 (month) 31 (day)

發證日期：中華民國 110 年 07 月 15 日

Date of issue 2021 (year) 07 (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。

註3：本證書僅代表完成檢驗程序，不作為其他(如產地)證明。



經濟部標準檢驗局

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

商品驗證登錄電子證書

CERTIFICATE OF THE REGISTRATION OF PRODUCT CERTIFICATION

證書號碼： CI437060015590 號 99
Certificate No.

- 生產廠場： 1. 無錫全漢科技有限公司
Factory： 江蘇省無錫市新區新梅路96號
2. 無錫仲漢科技有限公司
江蘇省無錫市國家高新技術產業開發區106-E號地塊
3. 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）
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. 全漢企業股份有限公司桃三廠
桃園市桃園區大樹里興隆路6號及6號4樓、5樓
6. 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

(以下空白)





안전인증서
Safety Certificate

안전인증번호: HU10142-18180B
(Certificate No.)
제조업자/수입업자명: Zhonghan Electronics (Shenzhen) Co.,Ltd.
(Manufacturer/importer)
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
(Address)
제품명: 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
다수 공장의 명: [별첨]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.

2022 년 01 월 07 일
(Year) (Month) (Day)



한국기계전기전자시험연구원
Korea Testing Certification Institute



※ 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)
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[별첨]

다수의 공장 현황(The status of Multiple Factories)

No	현황	
1	다수의 공장의 명(Name)	FSP Technology Inc. Taoyuan Plant 3
	주소(Address)	5F., No. 6, 4F., No. 6, No.6, Xinglong Rd., Taoyuan Dist., Taoyuan City, Taiwan, R.O.C.
	제조국명(Origin)	대만

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(Certificate No)

접수번호: 20211230 - 0041
(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°C 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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(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

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(Certificate No)

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(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]



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안전인증번호: HU10142 -18180B
(Certificate No)

접수번호: 20211230 - 0041
(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]



기 술 문 서 Technical Document

page: 6 / 8

안전인증번호: HU10142 -18180B
(Certificate No)

접수번호: 20211230 - 0041
(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

page: 7 / 8

안전인증번호: HU10142 -18180B
(Certificate No)

접수번호: 20211230 - 0041
(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]



기술문서 Technical Document

page: 8 / 8

안전인증번호: HU10142 -18180B
(Certificate No)

접수번호: 20211230 - 0041
(Receipt No)

3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2018/07/26	기본모델(Basic Model)
2022/01/07	복수공장추가

4. 기타(Carefully Informed Note)

- 1) 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.

- 2) 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.

- 3) 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.

- 4) 조건부 인증사항 (Conditional certification items):

[서식 CP401-18-00]



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
기기부호/추가 기기부호 Equipment code /Additional Equipment code	IMI31
기본모델명 Basic Model Number	FSP120-AHAN3
파생모델명 Series Model Number	
등록번호 Registration No.	R-REM-FSZ-FSP120-AHAN3
제조사/제조국가 Manufacturer/Country of Origin	Zhonghan Electronics (Shenzhen) Co., Ltd., FSP Technology Inc. Taoyuan Plant 3 / 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.

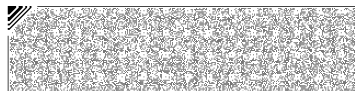
2022년(Year) 01월(Month) 06일(Day)

국립전파연구원장



Director General of National Radio Research Agency

※ 적합등록 방송통신기자재는 반드시 "적합성평가표시" 를 부착하여 유통하여야 합니다.
위반시 과태료 처분 및 등록이 취소될 수 있습니다.



1B29-8B23-DAE4-C57C

변경신고 처리결과 통보서

전자민원신청번호	202217210000009653	접수일자	2022-01-06	
대상기기	상호 또는 성명	Zhonghan Electronics (Shenzhen) Co., Ltd.	적합성평가 분야	적합등록
	기자재 명칭	Switching Power Adapter	기본모델명	FSP120-AHAN3
	적합성평가 번호	R-REM-FSZ-FSP120-AHAN3	적합성평가 연 월 일	2022-01-06

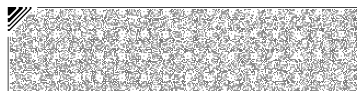
제조사

FSP Technology Inc. Taoyuan Plant 3

「방송통신기자재등의 적합성평가에 관한 고시」 제16조에 따른 적합성평가 사항의 변경신고 건에 대하여 위와 같이 변경처리 되었음을 알려드립니다.

2022년(Year) 01월(Month) 06일(Date)

국립전파연구원장



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)

Zertifikat**Certificate**

Zertifikat Nr. <i>Certificate No.</i>	Blatt <i>Sheet</i>	Gültig ab	Valid from
S 50569982	0001	27.12.2022	(day/mo/yr)
Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Längstens gültig bis	Latest expiration date
JY040822	ZTW1-CCO-50107298 004	26.12.2027	(day/mo/yr)

Genehmigungsinhaber *License Holder*
 FSP Group Inc.
 No. 22, Jianguo E. Road
 Taoyuan 330
 Taiwan

Fertigungsstätte *Manufacturing Plant*
 Refer to latest revision
 of the annex list of factories

Prüfzeichen *Test Mark***Geprüft nach *Tested acc. to***

EN IEC 62368-1:2020+A11
 EK1 527-12 Rev. 2

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)
Lizenzentgelte - Einheit
License Fee - Unit
Externes Schaltnetzteil (Switching Power Adapter)

Bezeichnung : FSP120-AHAN3, FSP120-AHBN3 (FSP)
 (Type Designation) PUP120N3-12yyyyy (PROTEK)
 PUP120N3S-12yyyyy (PROTEK)
 "y" steht für : 0-9, A-Z, hyphen or blank
 (stands for) (Strich oder freibleibend)
 Nennspannung : AC 100-240V, 50-60Hz
 (Rated Voltage)
 Nennstrom : 2.0A
 (Rated Current)
 Ausgang : DC 12V, 10A
 (Output)
 max. Betriebshöhe (max. Operating Altitude) : 5000m
 max. Umgebungstemperatur (max. Ambient Temperature) : +40°C
 Schutzklasse (Protection Class) : I

Hinweis: Anforderungen der AfPS GS 2019:01 PAK Klausel 3.1
 berücksichtigt. (Remark: Requirements of AfPS GS 2019:01 PAK
 clause 3.1 considered.)

ANLAGE (Appendix): 1

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

*This certificate is based on our Testing and Certification Regulation.
 The provisions of §20 Product Safety Act are complied with.*

TÜV Rheinland LGA Products GmbH, Tillystraße 2, 90431 Nürnberg

http://www.tuv.com/safety E-mail: markcheck@tuv.com
 Fax: +49 221 806-3935

Ausstellungsdatum *Date of Issue* : 27.12.2022 (day/mo/yr)

**Zertifizierungsstelle**

Dipl.-Ing. F. Staelzel

Anlage Fertigungsstättenliste
/Attachment List of Factories



S 50569982 0001

- | | |
|---|--|
| <p>1 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</p> | <p>2 Wuxi SPI Technology Co., Ltd.
No. 96, Xinmei Road,
New District, Wuxi city
Jiangsu
P.R. China</p> |
| <p>3 FSP Technology Inc. Taoyuan Plant 3
5F., No. 6, 4F., No. 6,
No.6, Xinglong Rd.,
Taoyuan Dist., Taoyuan City, 330
Taiwan</p> | |



Dieser Anhang ersetzt den Vorgänger vom/
This annex replaces the previous annex dated

Datum / Date 27.12.2022



Zertifizierungsstelle
/ Certification Body

Dipl.-Ing. F. Stoelzel

Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.*
S 50394993

Blatt *Sheet*
0007

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Längstens gültig bis <i>Latest expiration date</i>
JY082421	ZTW1-CCO-50107298 003	05.12.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330
Taiwan

Fertigungsstätte *Manufacturing Plant*
FSP Technology Inc. Taoyuan Plant 3
5F., No. 6, 4F., No. 6, No.6, Xinglong
Taoyuan Dist., Taoyuan City, 330
Taiwan

Prüfzeichen *Test Mark*

www.tuv.com
ID 1419053368

Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11
EK1 527-12 Rev. 2

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

**Lizenzentgelte - Einheit
*License Fee - Unit***

Externes Schaltnetzteil (Switching Power Adapter) ®

wie Blatt (as page) 01

Ergänzung (Addition)

Fertigungsstätte: siehe oben
(Factory) (see above)

ANLAGE (Appendix): 1

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

*This certificate is based on our Testing and Certification Regulation.
Product and production fulfill par § 20 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* : 30.08.2021 (day/mo/yr)

Zertifizierungsstelle

Dipl.-Ing. F. Stöelzel

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
S 50394993

Blatt *Sheet*
0006

Ihr Zeichen *Client Reference*
JY082421

Unser Zeichen *Our Reference*
ZTW1-CCO-50107298 003

Längstens gültig bis *Latest expiration date*
05.12.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330
Taiwan

Fertigungsstätte *Manufacturing Plant*
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

Prüfzeichen *Test Mark*



www.tuv.com
ID 1419053368

Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11
EK1 527-12 Rev. 2

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Externes Schaltnetzteil (Switching Power Adapter) [®]

wie Blatt (as page) 01

Ergänzung (Addition)

Prüfgrundlage : siehe oben
(Test Requirement) (see above)

Hinweis: Anforderungen der AfPS GS 2019:01 PAK Klausel 3.1
berücksichtigt. (Remark: Requirements of AfPS GS 2019:01 PAK
clause 3.1 considered.)

ANLAGE (Appendix): 1

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

*This certificate is based on our Testing and Certification Regulation.
Product and production fulfill par § 20 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* : 30.08.2021 (day/mo/yr)

Zertifizierungsstelle

Dipl.-Ing. F. Stöelzel

Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.*
S 50394993

Blatt *Sheet*
0005

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Längstens gültig bis <i>Latest expiration date</i>
JY300718	ZTW1-CCO-50107298 002	05.12.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330
Taiwan

Fertigungsstätte *Manufacturing Plant*
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

Prüfzeichen *Test Mark*



www.tuv.com
ID 1419053368

Geprüft nach *Tested acc. to*

EN 62368-1:2014+A11
AfPS GS 2014:01 Par. 3.1

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

**Lizenzentgelte - Einheit
*License Fee - Unit***

Externes Schaltnetzteil (Switching Power Adapter)

wie Blatt (as page) 01

Ergänzung für Bezeichnung : 1) FSP120-AHAN3 (FSP)
(Addition for Type Designation) 2) FSP120-AHBN3 (FSP)

Bezeichnung : 1) PUP120N3-12yyyyy (PROTEK)	1
(Type Designation) 2) PUP120N3S-12yyyyy (PROTEK)	1

y steht für : 0-9, A-Z, Strich oder freibleibend	1
(stands for) (hyphen or blank)	

3

ANLAGE (Appendix): 1

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

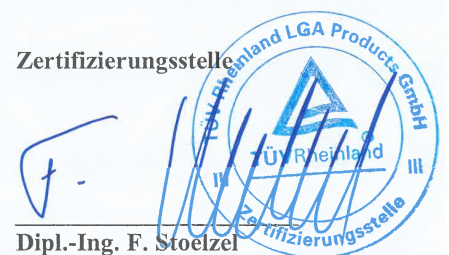
*This certificate is based on our Testing and Certification Regulation.
Product and production fulfill par § 20 and § 21 of the
Product Safety Law.*

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* : 27.09.2018 (day/mo/yr)

Zertifizierungsstelle



Dipl.-Ing. F. Stoetzel

Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.*
S 50394993

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0004

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Längstens gültig bis <i>Latest expiration date</i>
JY300718	ZTW1-CCO-50107298 002	05.12.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330
Taiwan

Fertigungsstätte *Manufacturing Plant*
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

Prüfzeichen *Test Mark*



www.tuv.com
ID 1419053368

Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11
AfPS GS 2014:01 Par. 3.1

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

**Lizenzentgelte - Einheit
*License Fee - Unit***

Externes Schaltnetzteil (Switching Power Adapter)

wie Blatt (as page) 01

Ergänzung
(Addition)

Fertigungsstätte: siehe oben
(Factory) (see above)

Änderung
(Change)

Fertigungsstätte: Zhonghan Electronics (Shenzhen) Co., Ltd.
(Factory) 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

entfällt (withdrawn)

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
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Ausstellungsdatum *Date of Issue* : 27.09.2018 (day/mo/yr)

Zertifizierungsstelle



Dipl.-Ing. F. Stoetzel

Zertifikat**Certificate**

Zertifikat Nr. *Certificate No.*
S 50394993

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0003

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Längstens gültig bis <i>Latest expiration date</i>
HC121017/DEL	ZTW1-CCO-50107298 001	05.12.2022 <i>(day/mo/yr)</i>

Genehmigungsinhaber *License Holder*
FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330
Taiwan

Fertigungsstätte *Manufacturing Plant*
Wuxi SPI Technology Co., Ltd.
No. 96, Xinmei Road,
New District, Wuxi city, Jiangsu
P. R. China

Prüfzeichen *Test Mark*

Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11
AfPS GS 2014:01 Par. 3.1

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

**Lizenzentgelte - Einheit
*License Fee - Unit***

Externes Schaltnetzteil (Switching Power Adapter)

wie Blatt (as page) 01

Ergänzung
(Addition)

Fertigungsstätte: siehe oben
(Factory) (see above)

ANLAGE (Appendix): 1

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Fax: +49 221 806-3935 http://www.tuv.com/safety

Ausstellungsdatum *Date of Issue* : 06.12.2017 (day/mo/yr)

Zertifizierungsstelle



Dipl.-Ing. (FH) A. Klinker

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
S 50394993

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0002

Ihr Zeichen *Client Reference*
HC121017/DEL

Unser Zeichen *Our Reference*
ZTW1-CCO-50107298 001

Längstens gültig bis *Latest expiration date*
05.12.2022 (day/mo/yr)

Genehmigungsinhaber *License Holder*
FSP Group Inc.
No. 22, Jianguo E. Road
Taoyuan 330
Taiwan

Fertigungsstätte *Manufacturing Plant*
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

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11
AfPS GS 2014:01 Par. 3.1

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Externes Schaltnetzteil (Switching Power Adapter)

wie Blatt (as page) 01

Ergänzung
(Addition)

Bezeichnung : FSP120-AHAN3 (FSP)
(Type Designation)

1

1

ANLAGE (Appendix): 1

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Zertifizierungsstelle



Dipl.-Ing. (FH) A. Klinker

Zertifikat

Certificate



Zertifikat Nr. *Certificate No.*
S 50394993

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0001

Ihr Zeichen *Client Reference*
HC121017/DEL

Unser Zeichen *Our Reference*
ZTW1-CCO-50107298 001

Längstens gültig bis *Latest expiration date*
05.12.2022 (day/mo/yr)

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No. 22, Jianguo E. Road
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Zone, TangWei Village, FuYong Town,
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P. R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 62368-1:2014+A11
AfPS GS 2014:01 Par. 3.1

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

**Lizenzentgelte - Einheit
*License Fee - Unit***

Externes Schaltnetzteil (Switching Power Adapter)

Bezeichnung (Type Designation)	: FSP120-AHBN3 (FSP)	10
Nennspannung (Rated Voltage)	: 100-240Va.c., 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	

10

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.
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Zertifizierungsstelle



Dipl.-Ing. (FH) A. Klinker

不使用限用物質聲明書
Non-use of restricted substances statement

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 : 徐培正

立書人職稱 Declarant's Title : 業務主任

本聲明書生效日期 Effective Date of this Declaration : 2021/10/1



(公司章 Company Stamp)

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 :



(負責人章 Responsible Person
Chop)

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 & (EU) 2015/863) 規範。

The product complies with EU RoHS (2011/65/EU & (EU) 2015/863) norms.

i. 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

ii. 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

不使用限用物質聲明書

Non-use of restricted substances statement

QD4-089 Rev.B4

- 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>

- 四、產品符合美國環保署 TSCA 毒性物質管理法第 6(h)節五項 PBT 毒性物質管理要求

This product complies with USA EPA Toxic Substances Control Act (TSCA) Persistent, Bioaccumulative, and Toxic (PBT) 5 Chemicals requirement under Section 6(h)

立書人提供給研揚的所有文件（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.

