

## Switching Power Supply Approval Sheet

Customer : 研揚科技股份有限公司  
Model Number : FSP120-ABAN3  
Spec : 120W, ADAPTER  
SPI P/N : 9NA1208548  
Customer P/N : 1255X00071  
Remark : ROHS 機種

Item	Contents
01	Mechanical Drawing
02	Specification
03	Safety Certificates



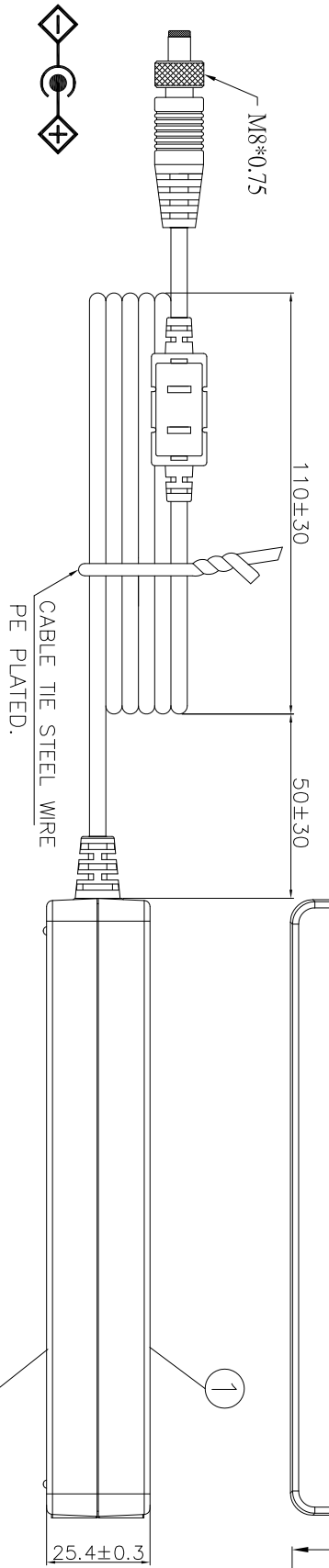
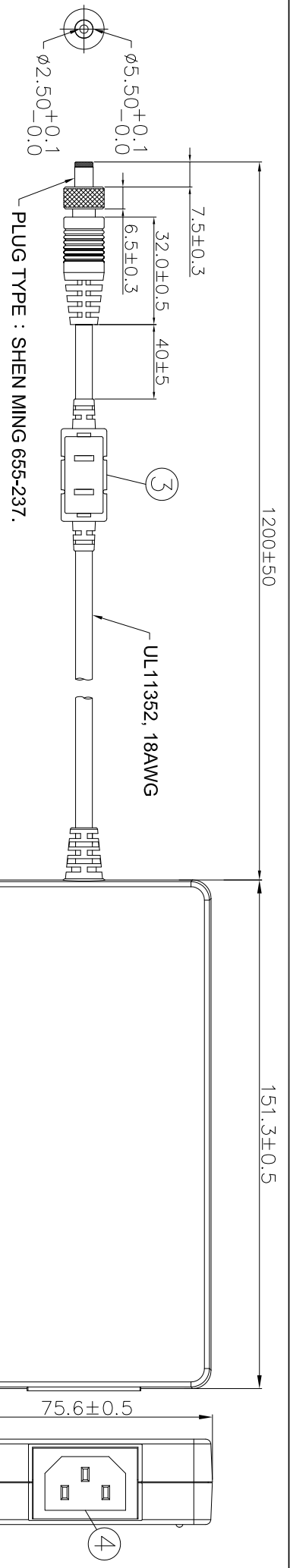
# MECHANICAL DRAWING



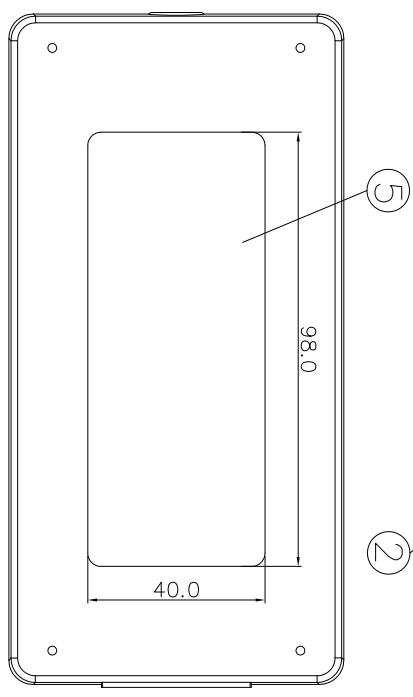
OAD-00010116

FSP120-ABBN3

Date:2022-08-19 11:36



ITEM	PART NAME	COLOR
1	COVER	BLACK
2	CHASSIS	BLACK
3	POWER CORD	BLACK
4	SOCKET	BLACK
5	LABEL	BLACK



P/N.: 9NA1208548

THIRD ANGLE PROJECTION		DIMENSIONAL TOLERANCES		HOLES: ±0.05 ANGLES: ±0.5°	
( )	( )	( )	( V )	( )	( )
<30	±0.2	0.1~100	±0.2	200~300	±0.4
>30	±0.3	100~150	±0.25	300~500	±0.5
>200	±0.5	150~200	±0.3	500~900	±0.6
ABOVE 300	±0.8	200~500	±0.35	900~O/N/A	±0.8
		PRECISIONS			
		X: ±0.8			
		XX: ±1.6			
		XXX: ±3.2			
SCALE: UNIT:mm		MODEL NO.: FSP120-ABAN3			
		R&D3 Division	PE	ME	DATE
		L.J	Melody	Melody	2022/08/18
		INTERIOR COUNTERSIGN:			
		TITLE: Physical Dimension		SHEET: 1 OF 1	REV:01

# SPECIFICATION



ESD-00001179

FSP120-ABAN3

Date:2022-07-22 21:00



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  
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# SPECIFICATION

AC Adapter

FSP120-ABAN3

P.E	R/D	APPROVED	REV.
ZL	Stephen Li	LJ Wei	03



# Electrical Specification

## History

REV.	Description	Date	Drawn	Mechanical	Electrical	Approved
<u>00</u>	SPEC ISSUE	Mar.14'18	Vivian	ZL	Stephen Li	LJ Wei
<u>01</u>	Revise : 1.10 Erp(Level VI)	Nov.30'19	Vivian	Zhiling Guo	Stephen Li	LJ Wei
<u>02</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
<u>03</u>	Revise : 5.2 Adapter weight	Jan.17'22	Vivian	Zhiling Guo	Stephen Li	LJ Wei

MODEL NO. **FSP120-ABAN3**

SHEET 1 OF 7



# 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 / 6.32A load	≤ 1.8A
1.5 Input Current Harmonic:		IEC61000-3-2
1.6 Efficiency: (Warm up 10minutes later)	100Vac / 6.32A load 240Vac / 6.32A load	≥ 88% ≥ 90%
1.7 Power Saving:	115Vac, 230Vac / 13.15mA load(0.25W)	≤ 0.5W
1.8 Inrush Current:	100Vac, 240Vac / 6.32A 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 ≤ 1800 mm,18AWG) 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 ≤ 1800 mm,18AWG)

MODEL NO. **FSP120-ABAN3**

SHEET 2 OF 7





# Electrical Specification

## 2. Output Characteristics:

※Measured at the end of DC cable.

ITEM	CONDITION	SPECIFICATION
2.1 Output Rated Voltage:		19V
2.2 Output Current:	at constant voltage mode	0A to 6.32A
2.3 Output Voltage Setting:	at the output end of DC cable	19V ± 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~6.32A load	≤ 350mVp-p
2.5 Turn-On Delay Time:	At 100Vac / 6.32A load, output voltage shall remain regulation	≤ 3Sec
2.6 Hold Up Time:	At 100Vac or 240Vac / 6.32A load, output voltage shall remain regulation	≥ 10ms
2.7 Rise Time:	At 100Vac / 6.32A 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	19V ± 10%
2.9 Overshoot:	100Vac, 240Vac / 0A and 6.32A load	19V ± 10%

MODEL NO. **FSP120-ABAN3**

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 29 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-ABAN3**

SHEET 4 OF 7

# 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 $\Omega$ )	Air Discharge: $\pm 15\text{KV}$	Normal operation shall be continued
	Contact Discharge: $\pm 8\text{KV}$	
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	FCC PART 15B CLASS B
	2.The power supply with internal filter can meet.	CISPR32 EN55032 CLASS B
		VCCI LEVEL II
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(or AC 3000V) / test time 1 minute / cut off current shall be less than 10mA	
4.9 Temperature:	Operating	0 to 40°C
	Storage	-20 to +80°C
4.10 Humidity:	Operating	20% ~ 80%
	Storage	10% ~ 90%



# Electrical Specification

## 5. Mechanical Characteristics:

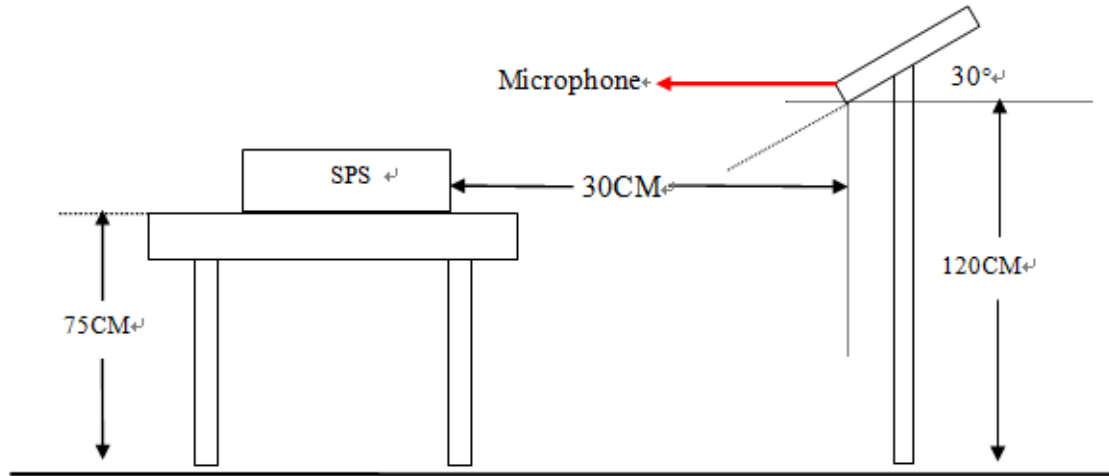
ITEM	CONDITION	SPECIFICATION
5.1 Dimension (Length x Width x Height):		151.3 X 75.6 X 25.4 mm
5.2 Adapter weight:		380g(typical)
5.3 Input AC socket Type:		IEC 320-C14 Type
5.4 Vibration Test:	(1) Non-operating, 0.01g <sup>2</sup> /Hz at 5Hz slopping to 0.02g <sup>2</sup> /Hz at 20Hz, And maintain 0.02g <sup>2</sup> /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-ABAN3**

SHEET 6 OF 7

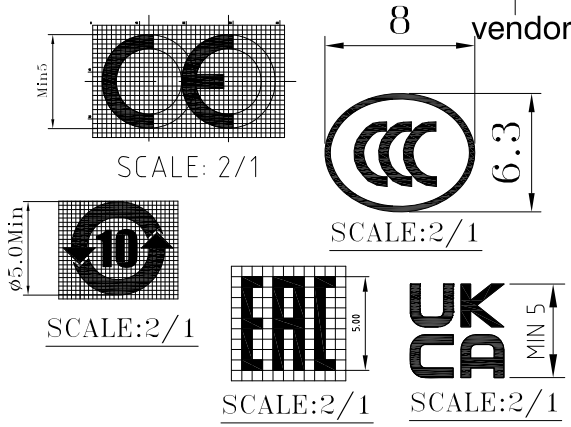
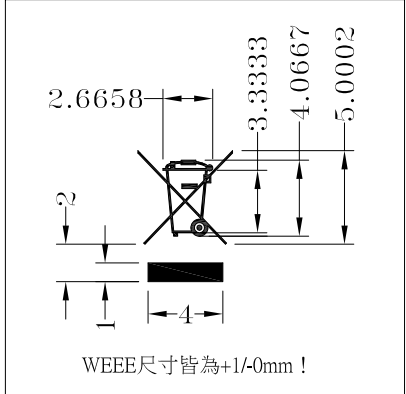
# Electrical Specification

Note : Acoustic Noise





全漢企業股份有限公司  
FSP TECHNOLOGY INC.



- 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.: 6LL2323601GP

MODEL NO. :	FSP120-ABAN3	TITLE:	SPEC LABEL	SHEET: 1 OF 1	REV: 01
R&D3 Division	PE	ME	DATE		
L.J	Melody	Melody	2022/08/18		
INTERIOR COUNTERSIGN:					

Mechanical Drawing (外觀/機構圖)



# 中国国家强制性产品认证证书

## 变更结论 Modification Approval

证书编号 Certificate No. : 2018010907056992

申请编号 Application No. : A2022CCC0907-3889388

申请人(委托人) Applicant: 全汉企业股份有限公司 / FSP Group Inc.

证书编号 Certificate No. (变更前 Original): 2018010907056992

变更产品名称: 电源适配器

Name of Product Modified: Switching Power Adapter

变更情况 Situation of Modification (见下表 See table below):

序号	项目 Item	变更前 Original	变更后 Present
1	变更器具输入插座等关键件	见申请编号为 A2022CCC0907-3889388 检测机构变更确认表	见申请编号为 A2022CCC0907-3889388 检测机构变更确认表

现批准以上变更。

Above Modification is approved. The present will replace the original.

批准日期 (Date): 2022 年 03 月 22 日

第 1 页/共 1 页

签发:

谢肇煦



中国质量认证中心





## 中国国家强制性产品认证证书

变更结论  
Modification Approval

证书编号 Certificate No. : 2018010907056992

申请编号 Application No. : A2021CCC0907-3677363

申请人(委托人) Applicant: 全汉企业股份有限公司 / FSP Group Inc.

证书编号 Certificate No.(变更前 Original): 2018010907056992

变更产品名称: 电源适配器

Name of Product Modified: Switching Power Adapter

变更情况 Situation of Modification (见下表 See table below) :

序号	项目 Item	变更前 Original	变更后 Present
1	1、增加 FG 线走线位置报备 (不影响电气间隙和爬电距离)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
2	2、删除已注销的器具输入插座证书号	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
3	3、更新或增加器具输入插座报备	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
4	4、删除已注销的熔断器(F101)证书号	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
5	5、更新或增加熔断器(F101)报备	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
6	6、删除已注销/暂停的 X 电容(CX101)证书号	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
7	7、更新 X 电容(CX101)信息	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
8	8、更新 Y 电容(CY104)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)

第 1 页 / 共 2 页



签发:

陆楠



中国质量认证中心





## 中国国家强制性产品认证证书

变更结论  
Modification Approval

证书编号 Certificate No. : 2018010907056992

	信息	3677363 的检测机构变更确认表)	3677363 的检测机构变更确认表)
9	9、增加压敏电阻 (VA101) 报备	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
10	10、删除已注销的光电耦合器 (PC101) 证书号	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
11	11、更新或增加光电耦合器(PC101)报备	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
12	12、删除印制线路板/基材证书号	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
13	13、更新或增加印制线路板/基材报备	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
14	14、增加开关管 (Q601,Q602) 报备	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)
15	15、新增输出线样式	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)	(详见申请编号为 A2021CCC0907-3677363 的检测机构变更确认表)

现批准以上变更。

Above Modification is approved. The present will replace the original.

批准日期 (Date) : 2021 年 03 月 29 日

第 2 页 / 共 2 页



签发:

陆楠

中国质量认证中心



# 中国国家强制性产品认证证书

证书编号：2018010907056992

### 委托人名称、地址

全汉企业股份有限公司  
台湾省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  
台湾省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-ABAN5、FSP120-ABBN5、FSP120-ABBN3、FSP120-ABAN3 输入：100-240Vac, 50-60Hz, 1.8A； 输出：19Vdc, 6.32A（仅适用于海拔 5000 米及以下,不带电线组件销售）

### 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 08 月 02 日 有效期至：2023 年 03 月 23 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。

本证书为变更证书，证书首次颁发日期：2018 年 03 月 23 日

本证书的相关信息可通过国家认监委网站 [www.cnca.gov.cn](http://www.cnca.gov.cn) 查询



主任：



## 中国质量认证中心



# CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

**CERTIFICATE NO.: 2018010907056992**

## 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-ABAN5、FSP120-ABBN5、FSP120-ABBN3、FSP120-ABAN3 Input: 100-240Vac,  
50-60Hz, 1.8A ; Output: 19Vdc, 6.32A (Altitude up to 5000m, Sale without cord set  
)

## 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:** Aug.02,2018

**Valid until:** Mar.23,2023

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

Date of original issued: Mar.23,2018

The certificate information is available through CNCA's website: [www.cnca.gov.cn](http://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 2016262



# 中国国家强制性产品认证证书

## 变更结论 Modification Approval

证书编号 Certificate No. : 2018010907056992

申请编号 Application No. : A2018CCC0907-2951933

申请人(委托人) Applicant: 全汉企业股份有限公司 / FSP Group Inc.

证书编号 Certificate No.(变更前 Original): 2018010907056992

变更产品名称: 电源适配器

Name of Product Modified: Switching Power Adapter

变更情况 Situation of Modification (见下表 See table below) :

序号	项目 Item	变更前 Original	变更后 Present
1	1.新增型号命名	FSP120-ABAN5、FSP120-ABBN5	FSP120-ABAN5、FSP120-ABBN5、 FSP120-ABBN3、FSP120-ABAN3
2	2.变更器具输入插座等 关键件	见申请编号为 A2018CCC0907- 2951933 检测机构变更确认表	见申请编号为 A2018CCC0907-2951933 检测机构变更确认表

现批准以上变更。

Above Modification is approved. The present will replace the original.

批准日期(Date) : 2018年08月02日

第 1 页 / 共 1 页



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

	Ref. Certif. No.
	JPTUV-087485-A1/M1

**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; 1.8A; 50-60Hz; Class I Output: DC 19V; 6.32A
Trademark (if any)	FSP
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	FSP120-ABAN5, FSP120-ABBN5, FSP120-ABAN3, FSP120-ABBN3
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report. Re-issue of JPTUV-087485-A1 dated 23.05.2018, due to first modification.
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	50135836 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


  
Dipl.-Ing. F. Stoelzel

Date: 2021-12-15

Signature:

10/061 CB 06/2016 IK

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	<p>Ref. Certif. No.</p> <p>JPTUV-087485-A1/M1</p>
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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 C4-C11, No. 352,  
LiuTang Rd., County 73,  
Bu'Xin Village, Xin'an, Bao'an, Shenzhen,  
Guangdong, P.R. China
4. 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
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. : 50135836 004


Date: 2021-12-15

Signature:



Dipl.-Ing. F. Stoelzel

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	Ref. Certif. No.
	JPTUV-087485-A1/M1

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. : 50135836 004

Date: 2021-12-15

Signature:



Dipl.-Ing. F. Stoelzel

	<b>Ref. Certif. No.</b>
	JPTUV-087485-A1

<b>IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME</b>	<b>SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC</b>
--	--

<b>CB TEST CERTIFICATE</b>	<b>CERTIFICAT D'ESSAI OC</b>
----------------------------	------------------------------

<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<sup>ème</sup> 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; 1.8A; 50-60Hz; Class I Output: DC 19V; 6.32A</p> <p>FSP</p> <p>N/A</p> <p>FSP120-ABAN5, FSP120-ABBN5, FSP120-ABAN3, FSP120-ABBN3</p> <p>For model differences, refer to the test report. Re-issue of JPTUV-087485 dated 23.04.2018, due to non-technical change.</p> <p>IEC 60950-1:2005+A1+A2 See Test Report for National Differences</p> <p>50135836 002</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

 <b>TÜVRheinland®</b>	<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>	 Dipl.-Ing. F. Stoelzel
Date: 23.05.2018	Signature:	

10/061 CB 05:12



	<p style="text-align: center;">Ref. Certif. No.</p> <p style="text-align: center;">JPTUV-087485-A1</p>
---	--

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,  
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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.: 50135836 002

Date: 23.05.2018

Signature:

  
Dipl.-Ing. R. Stoelzel

	<b>Ref. Certif. No.</b>
	JPTUV-087485

<b>IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME</b>	<b>SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC</b>
--	--

<b>CB TEST CERTIFICATE</b>	<b>CERTIFICAT D'ESSAI OC</b>
----------------------------	------------------------------

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; 1.8A; 50-60Hz; Class I Output: DC 19V; 6.32A
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-ABAN5, FSP120-ABBN5, FSP120-ABAN3, FSP120-ABBN3
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2 <sup>ème</sup> 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	50135836 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

 <b>TÜVRheinland®</b>	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: Dipl.-Ing. F. Stöckel
Date: 23.04.2018		

10/061 CB 05.12



Ref. Certif. No.

JPTUV-087485

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,  
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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.: 50135836 001

Date: 23.04.2018

Signature:



Dipl.-Ing. F. Staelzel

## 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; Panasonic; DLH  
**Model/Type:** FSP120-ABAN5  
**Added Model(s):** FSP120-ABBN5; FSP120-ABAN3; FSP120-ABBN3; DY-AI1591N  
**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

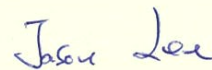
**Test Laboratory:** Compliance Certification Services Inc.  
Xindian Lab  
No. 163-1, Jhongsheng Rd., Xindian Dist., New Taipei City,  
Taiwan

**Test Report No.:** TMXD2202000888DE, 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

Ref. No. VXD1280A/2021  
Page: 1 of 1

## VERIFICATION OF COMPLIANCE

**Issue Date:** June 8, 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  
**Model/Type:** FSP120-ABAN5; FSP120-ABBN5  
**Added Model(s):** FSP120-ABAN3; FSP120-ABBN3  
**Applicable Standards:** FCC 47 CFR Part 15 Subpart B  
ANSI C63.4: 2014  
ISED ICES-003 (Issue 7)

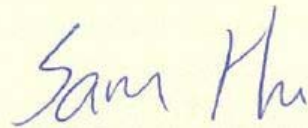
**Test Laboratory:** Compliance Certification Services Inc.  
Xindian Lab  
No. 163-1, Jhongsheng Rd., Xindian Dist., New Taipei City,  
Taiwan

**Test Report No. :** T210525D09-D, dated on June 8, 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

# CERTIFICATE OF COMPLIANCE

**Certificate Number** 20180504-E190414  
**Report Reference** E190414-20180430  
**Issue Date** 2018-MAY-04

**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  
(1) FSP120-ABAN5, FSP120-ABAN3  
(2) FSP120-ABBN5, FSP120-ABBN3

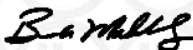
Have been investigated by UL in accordance with the  
Standard(s) indicated on this Certificate.

**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](http://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/>



	Ref. Certif. No.
	JPTUV-087984-M2

**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; 1.8A; 50-60Hz; Class I Output: DC 19V; 6.32A
Trademark (if any)	FSP
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	FSP120-ABAN5, FSP120-ABBN5, FSP120-ABAN3, FSP120-ABBN3
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report. Re-issue of JPTUV-087984-M1 dated 2021-05-12, due to second modification.
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	50135835 003

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: 2021-12-15

Signature:

10/061 CB 06/2016 IK

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	Ref. Certif. No.
	JPTUV-087984-M2

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
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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
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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. : 50135835 003

Date: 2021-12-15


Signature:



Dipl.-Ing. F. Stoelzel

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	Ref. Certif. No.
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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. : 50135835 003

Date: 2021-12-15

Signature:



Dipl.-Ing. F. Stoelzel

10/061a CB 06/20v3 IK

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	Ref. Certif. No.
	JPTUV-087984-M1

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; 1.8A; 50-60Hz; Class I Output: DC 19V; 6.32A
Trademark (if any)	FSP
Customer's Testing Facility (CTF) Stage used	N/A
Model / Type Ref.	FSP120-ABAN5, FSP120-ABBN5, FSP120-ABAN3, FSP120-ABBN3
Additional information (if necessary may also be reported on page 2)	For model differences, refer to the test report. Re-issue of JPTUV-087984 dated 14.05.2018, due to first modification.
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	50135835 002

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  
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Mail: info@jpn.tuv.com  
Web : www.tuv.com


  
 Dipl.-Ing. F. Stoelzel

Date: 2021-05-12

Signature:

10/061 CB 06/2016 IK

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	<p>Ref. Certif. No.</p> <p>JPTUV-087984-M1</p>
---	--

Page 2 of 3

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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

**Additional information (if necessary)**

Report Ref. No. : 50135835 002


Date: 2021-05-12

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-087984-M1

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)**

Report Ref. No. : 50135835 002

Date: 2021-05-12

Signature:



Dipl.-Ing. F. Stoelzel

	<b>Ref. Certif. No.</b>
	JPTUV-087984

<b>IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME</b>	<b>SYSTEME CEI D'ACCEPTATION MUTUELLE DE CERTIFICATS D ESSAIS DES EQUIPEMENTS ELECTRIQUES (IECEE) METHODE OC</b>
--	--

<b>CB TEST CERTIFICATE</b>	<b>CERTIFICAT D'ESSAI OC</b>
----------------------------	------------------------------

<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<sup>ème</sup> 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; 1.8A; 50-60Hz; Class I Output: DC 19V; 6.32A</p> <p>FSP</p> <p>N/A</p> <p>FSP120-ABAN5, FSP120-ABBN5, FSP120-ABAN3, FSP120-ABBN3</p> <p>For model differences, refer to the test report.</p> <p>IEC 62368-1:2014 See Test Report for National Differences</p> <p>50135835 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

 <b>TÜVRheinland®</b>	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: Dipl.-Ing. E. Stoelzel
Date: 14.05.2018		

10/061 CB 05.12

	<table border="1"> <tr> <td data-bbox="986 125 1489 219">Ref. Certif. No.</td> </tr> <tr> <td data-bbox="986 219 1489 295">JPTUV-087984</td> </tr> </table>	Ref. Certif. No.	JPTUV-087984
Ref. Certif. No.			
JPTUV-087984			

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, XinmeiRoad,  
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.: 50135835 001

Date: 14.05.2018

Signature:



Dipl.-Ing. F. Stöckelzel

**Zertifikat****Certificate**Zertifikat Nr. *Certificate No.*  
S 50407666Blatt *Blatt*  
0001Ihr Zeichen *Client Reference*  
JY070318Unser Zeichen *Our Reference*  
ZTW1-CCO-50135837 001Längstens gültig bis *Latest expiration date*  
14.05.2023 (day/mo/yr)Genehmigungsinhaber *License Holder*  
FSP Group Inc.  
No. 22, Jianguo E. Road  
Taoyuan 330  
TaiwanFertigungsstätte *Manufacturing Plant*  
Refer to latest revision  
of the annex list of factoriesPrüfzeichen *Test Mark*Geprüft nach *Tested acc. to*  
EN 62368-1:2014+A11  
AfPS GS 2014:01 Par. 3.1Zertifiziertes Produkt (Geräteidentifikation)  
*Certified Product (Product Identification)*Lizenzentgelte - Einheit  
*License Fee - Unit*Externes Schaltnetzteil (Switching Power Adapter)

Bezeichnung (Type Designation)	: FSP120-ABBN5 (FSP)	10
Nennspannung (Rated Voltage)	: AC 100-240V, 50-60Hz	
Nennstrom (Rated Current)	: 1.8A	
Ausgang (Output)	: DC 19V/6.32A	
max. Umgebungstemperatur (max. Ambient Temperature)	: 40°C	
max. Betriebshöhe (max. Operating Altitude)	: 5000m	
Schutzklasse (Protection Class)	: I	

10

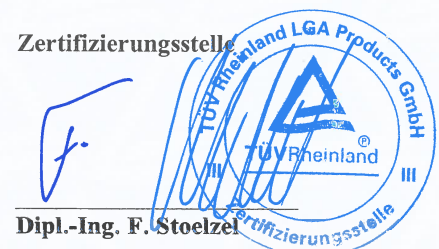
ANLAGE (Appendix): 1

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/safetyAusstellungsdatum *Date of Issue* : 15.05.2018 (day/mo/yr)

Zertifizierungsstelle



Dipl.-Ing. F. Stoezel

**Zertifikat****Certificate**

Zertifikat Nr. *Certificate No.*  
S 50407666

Blatt *Blatt*  
0002

Ihr Zeichen *Client Reference*  
JY070318

Unser Zeichen *Our Reference*  
ZTW1-CCO-50135837 001

Längstens gültig bis *Latest expiration date*  
14.05.2023 (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 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-ABAN5 (FSP)  
(Type Designation) FSP120-ABAN3 (FSP)  
FSP120-ABBN3 (FSP)

1  
1  
1  

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3

ANLAGE (Appendix): 1

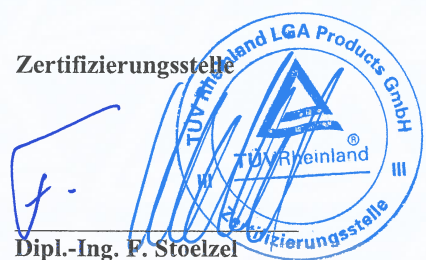
Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.  
Produkt und Fertigungsstätte erfüllen § 20 und § 21 des  
Produktsicherheitsgesetzes.

*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* : 15.05.2018 (day/mo/yr)**





**Zertifikat****Certificate**

Zertifikat Nr. *Certificate No.*      Blatt *Sheet*  
S 50407666                                      0003

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Längstens gültig bis <i>Latest expiration date</i>
JY072721	ZTW1-CCO-50135837 002	14.05.2023 (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 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

Änderung  
(Change)

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 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* : 05.08.2021 (day/mo/yr)**

Zertifizierungsstelle  
  
Dipl.-Ing. F. Stöelzel

Anlage Fertigungsstättenliste  
/Attachment List of Factories



S 50407666 0003

Anlagenrevision / Annex revision

1

- |   |  |
|---|--|
| <p>1 Zhonghan Electronics (Shenzhen)<br/>Co., Ltd.<br/>Building A2 in Section A, Building 4,6,7<br/>in Section C, JuYuan Industrial Zone,<br/>TangWei Village, FuHai Town,<br/>BaoAn Dist., ShenZhen City<br/>Guangdong, P.R. China</p> | <p>2 Wuxi SPI Technology Co., Ltd.<br/>No. 96, Xinmei Road,<br/>New District, Wuxi city<br/>Jiangsu<br/>P.R. China</p> |
| <p>3 FSP Technology Inc. Taoyuan Plant 3<br/>5F., No. 6, 4F., No. 6, No.6, Xinglong Rd.,<br/>Taoyuan Dist., Taoyuan City, 330<br/>Taiwan</p>  |  |



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

Datum / Date 05.08.2021

Zertifizierungsstelle  
/ Certification Body

Dipl.-Ing. F. Stoelzel



**EPS BASIC MODEL CERTIFICATION REPORT**

## EPS BASIC MODEL CERTIFICATION REPORT

Basic Model: FSP120-ABAN3Manufacturer: FSP GROUP INC.

Private Labeler (if applicable): \_\_\_\_\_

Name: MIKE LINTitle: SAFETY MANAGERAddress: No. 22, Jianguo East Road, Taoyuan City 330, TaiwanTelephone Number: +886-3-3759888Facsimile Number: +886-3-3756966Date: 2019/05/30**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-ABAN3Average Active-Mode Efficiency (%): 90.03No-Load Mode Power Consumption (W): 0.10Nameplate Output Power (W): 120Nameplate Output Current (if missing from nameplate) (A): 6.32**For Discontinued Models:**

Provide manufacturer's model number(s):

\_\_\_\_\_  
\_\_\_\_\_



## 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-ABAN5, FSP120-ABBN5,  
FSP120-ABAN3 ,FSP120-ABBN3

### 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

## 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： CI437060015885 號 A0  
Certificate No.茲據 全漢企業股份有限公司  
定，准予登錄並使用商品安全標章  及識別號碼：  
The application made by申請驗證登錄，經審查結果符合規  
R43001。其登錄事項如下：  
for Registration of ProductCertification 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  
Applicant統一編號：84239055  
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-ABAN5  
Type系列型式：FSP120-ABAN3, FSP120-ABBN3, FSP120-ABBN5(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，以標準檢驗局系統登錄資料為主，查詢證書  
資料網址：<https://civil.bsmi.gov.tw>

登錄日期：中華民國	108	年	01	月	04	日
Registration Date	2019	(year)	01	(month)	04	(day)
本證書有效期限至	114	年	01	月	03	日
Expiration Date	2025	(year)	01	(month)	03	(day)
發證日期：中華民國	111	年	03	月	03	日
Date of issue	2022	(year)	03	(month)	03	(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

## 商品驗證登錄證書

CERTIFICATE OF THE REGISTRATION OF PRODUCT CERTIFICATION

證書號碼： CI437060015885 號 A0  
Certificate No.

- 生產廠場： 1. 深圳市眾漢科技有限公司福永廠  
Factory： 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
2. 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）
3. 全漢企業股份有限公司桃三廠  
桃園市桃園區興隆路6號及6號4樓, 5樓
4. 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
5. 無錫全漢科技有限公司  
江蘇省無錫市新區新梅路96號
6. 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

(以下空白)



# 適合同等証明書

Equivalent of the Certificate of Conformity



証明書番号 Certificate No.

ページ Page

JD 50425223

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

NIT-114084469

ZTW1-BCC-50206818 001

2018年12月18日

申請者 Applicant

製造工場 Manufacturing Plant

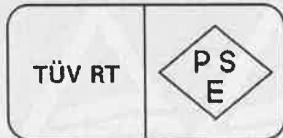
Zhonghan Electronics (Shenzhen) Co., Ltd.

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：J62368-1(H30), J55032(H29), J3000(H25)  
Interpretation on Ministerial Ordinance establishing Technical Requirements Appendix 12: J62368-1(H30), J55032 (H29), 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

Name of Specified Electrical Appliance and Material

： 直流電源装置  
DC Power Supply Unit

型式の区分

Type Classification

： 「添付 1.0」参照  
(Refer to "Attachment 1.0")

証明書の有効期間

Validity of Certificate

： 本証明書は、施行令で規定された期間である2023年12月17日まで有効です。  
This certificate is effective until 17 December, 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.

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 Issue by

氏名 Name of Best Chen





添付 Attachment : 1.0

発行日 Date of Issue : 2018年12月18日

**【型式の区分 Type Classification】**

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

証明書番号 (Certificate No.) : JD 50425223

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 を超え 30V 以下のもの (Exceeding 15V, and less than or equal to 30V)
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)	施していないもの (Without double insulation)

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発行者 Issued by

氏名 Name





**ТАМОЖЕННЫЙ СОЮЗ****СЕРТИФИКАТ СООТВЕТСТВИЯ**

№ TC RU C-TW.AЯ46.B.00361/18

Серия RU № 0783329

**ОРГАН ПО СЕРТИФИКАЦИИ** Орган по сертификации "РОСТЕСТ- Москва" Акционерного общества "Региональный орган по сертификации и тестированию"Место нахождения (адрес юридического лица): 117418, Российская Федерация, город Москва, Нахимовский проспект, дом 31  
Аттестат аккредитации № RA.RU.10AЯ46 срок действия с 27.04.2015  
Телефон: +7(495)668-27-42 Адрес электронной почты: info@rostest.ru**ЗАЯВИТЕЛЬ** ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТСТВЕННОСТЬЮ "Р-ГРУПП"Место нахождения (адрес юридического лица): 123112, Россия, город Москва, набережная Пресненская, Дом 10, Офис 537  
ОГРН 1157746642580.  
Телефон: +79261705302 Адрес электронной почты: rgrouprus@gmail.com**ИЗГОТОВИТЕЛЬ** FSP Group Inc.Место нахождения (адрес юридического лица) и адрес (адреса) места осуществления деятельности по изготовлению продукции:  
Тайвань (Китай), No. 22, Jianguo E. Road, Taoyuan 330  
Согласно приложению бланк №0582397, всего 1 позиция**ПРОДУКЦИЯ** Адаптер питания (Switching Power Adapter) торговой марки FSP модель: FSP120-ABAN3. Продукция изготовлена в соответствии с Директивой 2014/35/EU ЕВРОПЕЙСКОГО ПАРЛАМЕНТА И СОВЕТА от 26 февраля 2014 г. «О гармонизации законодательств государств-членов в области размещения на рынке электрооборудования, предназначенного для использования в определенных пределах напряжения», Директивой 2014/30/EU ЕВРОПЕЙСКОГО ПАРЛАМЕНТА И СОВЕТА от 26 февраля 2014 г. «О гармонизации законодательств государств-членов ЕС в области электромагнитной совместимости». Серийный выпуск.

КОД ТН ВЭД ТС 8504403002

**СООТВЕТСТВУЕТ ТРЕБОВАНИЯМ**ТР ТС 004/2011 "О безопасности низковольтного оборудования"  
ТР ТС 020/2011 "Электромагнитная совместимость технических средств"**СЕРТИФИКАТ ВЫДАН НА ОСНОВАНИИ** Протокола испытаний № 3144-262 от 19.12.2018, выданного

Испытательным центром продукции по физическим показателям ФБУ "Ростест-Москва" (регистрационный номер аттестата аккредитации RA.RU.21A365)

Протокола испытаний № 4168к-18/430 от 20.12.2018, выданного Испытательной лабораторией Федерального бюджетного учреждения "Государственный региональный центр стандартизации, метрологии и испытаний в г. Москве" (регистрационный номер аттестата аккредитации РОСС RU.0001.21GA31)

Акт анализа состояния производства органа по сертификации "РОСТЕСТ-Москва" № 181129-017/290 от 20.12.2018

Техническое досье, состоящее из документов, содержащих доказательства соответствия продукции требованиям технического регламента.

Схема сертификации: 1с

**ДОПОЛНИТЕЛЬНАЯ ИНФОРМАЦИЯ** Сведения о стандартах, в результате применения которых на добровольной

основе обеспечивается соблюдение требований технического регламента, указаны в приложении бланк №0582398, всего 6 позиций. Условия хранения и срок службы продукции указаны в сопроводительной документации.

Предприятия-изготовители согласно приложению бланк №0582397, всего 1 позиция

СРОК ДЕЙСТВИЯ С 21.12.2018 ПО 20.12.2023 ВКЛЮЧИТЕЛЬНО



М.П. Руководитель (уполномоченное лицо) органа по сертификации

Эксперт (эксперт-аудитор)  
(эксперты (эксперты-аудиторы))  
(подпись)  
  
(подпись)Грищенко Альмира Ахтямовна  
(инициалы, фамилия)Гредяева Юлия Викторовна  
(инициалы, фамилия)

# ТАМОЖЕННЫЙ СОЮЗ

## ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-TW.АЯ46.В.00361/18

Серия RU № **0582397**

Перечень предприятий-изготовителей продукции, на которую распространяется действие сертификата соответствия

Полное наименование предприятия-изготовителя	Адрес (место нахождения)
Zhonghan Electronics (Shenzhen) Co., Ltd.	Китай, Building A2 in Section A, Building 4,6,7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong



Руководитель (уполномоченное  
лицо) органа по сертификации  
Эксперт-аудитор (эксперт)

*[Handwritten signature]*  
подпись

*[Handwritten signature]*  
подпись

Грищенко Альмира Ахтямовна

инициалы, фамилия

Гредяева Юлия Викторовна

инициалы, фамилия

## ТАМОЖЕННЫЙ СОЮЗ

## ПРИЛОЖЕНИЕ

К СЕРТИФИКАТУ СООТВЕТСТВИЯ № ТС RU C-TW.AЯ46.B.00361/18

Серия RU № 0582398

Сведения о национальных стандартах (сводах правил), применяемых на добровольной основе для соблюдения требований технических регламентов

Обозначение национального стандарта или свода правил	Наименование национального стандарта или свода правил	Подтверждение требованиям национального стандарта или свода правил
ГОСТ 30805.22-2013 (CISPR 22:2006)	Совместимость технических средств электромагнитная. Оборудование информационных технологий. Радиопомехи промышленные. Нормы и методы измерений	разделы 4-6
ГОСТ CISPR 24-2013	"Совместимость технических средств электромагнитная. Оборудование информационных технологий. Устойчивость к электромагнитным помехам. Требования и методы испытаний"	раздел 5
ГОСТ 30804.3.2-2013 (IEC 61000-3-2:2009)	"Совместимость технических средств электромагнитная. Эмиссия гармонических составляющих тока техническими средствами с потребляемым током не более 16 А (в одной фазе). Нормы и методы испытаний"	разделы 5 и 7
ГОСТ 30804.3.3-2013 (IEC 61000-3-3:2008)	"Совместимость технических средств электромагнитная. Ограничение изменений напряжения, колебаний напряжения и фликера в низковольтных системах электроснабжения общего назначения. Технические средства с потребляемым током не более 16 А (в одной фазе), подключаемые к электрической сети при несоблюдении определенных условий подключения. Нормы и методы испытаний"	раздел 5
ГОСТ IEC 62311-2013	Оценка электронного и электрического оборудования в отношении ограничений воздействия на человека электромагнитных полей (0 Гц – 300 ГГц)	
ГОСТ IEC 62368-1-2014	"Аудио-, видео- аппаратура, оборудование информационных технологий и техники связи. Часть 1. Требования безопасности"	



Руководитель (уполномоченное  
лицо) органа по сертификации  
Эксперт-аудитор (эксперт)

*Гришенко*  
подпись

*Гредяева*  
подпись

Гришенко Альмира Ахтямовна

инициалы, фамилия

Гредяева Юлия Викторовна

инициалы, фамилия



## AUSTRALIAN GEMS REGULATOR

20 December 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.

<b>Registration No</b>	<b>Product Type</b>	<b>Brand Name</b>	<b>Model</b>	<b>Date of Registration</b>	<b>Record ID</b>
APS6804	External Power Supply	FSP	FSP120-ABAN3	20 December 2018	118322

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](http://www.energyrating.gov.au).

Yours sincerely,

Michael Grubert

**Authorised Delegate  
for the Australian GEMS Regulator**

## GEMS Regulator Equipment Energy Efficiency

## Registration #118322

APS6804

## Section 1 - Overview

## Models

Model Number	FSP120-ABAN3
Brand	FSP

## Administrative Details

Status	Approved
Registration Number	APS6804
Regulatory Authority	Australian Regulator
Regulator Terms Accepted	Yes
Agency	Victoria
Submitted Date	19 Dec 2018
Registration Date	20 Dec 2018
Expiry Date	20 Dec 2023
Clock Run Time	1
Date Approved	20 Dec 2018
Archive Status	Not Archived
Suspension Status	Not Suspended
Approval Certificate	<a href="#">Click to download</a>

## 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	<a href="http://www.fsp-group.com/">http://www.fsp-group.com/</a>
Applicant Address	No. 22, Jianguo E.Rd.,

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

**Payment**

<b>Payment Status</b>	Paid
<b>Payment Method</b>	On-line payment via (Reserve Bank)
<b>Payment Amount</b>	440.0
<b>Payment Date</b>	19 Dec 2018

**Administrative Contact**

<b>Name</b>	Kael Amif
<b>Organization</b>	AMIF Pty Ltd
<b>Job Title</b>	Manager
<b>Phone Number</b>	02-46476680
<b>Fax Number</b>	Not supplied
<b>Email</b>	kael.amif@gmail.com
<b>Address</b>	48 Fairwater DR Harrington Park, NSW, 2567 Australia

**Technical Contact**

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

**Accounts Payable Contact**

As for administrative contact

**Information for Public Website**

<b>Availability Status</b>	Unavailable
<b>Date First Available</b>	31 Dec 2018
<b>Date Available Until</b>	17 Dec 2018
<b>Publication Status</b>	Published
<b>Publication Date</b>	20 Dec 2018
<b>Product Images</b>	None Supplied
<b>Product Website</b>	None supplied
<b>User Manual</b>	None supplied

## Section 2 - Product Details

**Models**

<b>Model Number</b>	FSP120-ABAN3
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<b>Brand</b>	FSP
<b>Manufacturer</b>	
<b>Company Name</b>	FSP Group Inc.
<b>ABN</b>	Not supplied
<b>Address</b>	No.22, Jianguo E. Rd., Taoyuan City, Taoyuan, 330 Taiwan
<b>Contact Name</b>	Mike Lin
<b>Company Phone</b>	886 3 3759888(1762)
<b>Company Fax</b>	886 3 3756966
<b>Company Email</b>	mike@fsp-group.com.tw
<b>Company Website</b>	Not Supplied
<b>Manufacturing Countries</b>	Taiwan

<b>Availability</b>	
<b>Date of First Availability</b>	31 Dec 2018
<b>Selling Countries</b>	Australia Fiji New Zealand

<b>Date of Manufacture</b>	
<b>Method of Determination</b>	No date mark

<b>Appliance Details</b>	
<b>Product configuration</b>	AC-DC
<b>Nameplate Image</b>	<a href="#">attachments/Label_FSP120-ABAN3_2018-11-29.pdf</a>
<b>Nameplate input frequency range: Minimum:</b>	50.0 Hz
<b>Nameplate input frequency range: Maximum:</b>	60.0 Hz
<b>Nameplate input voltage range: Minimum</b>	100.0 V
<b>Nameplate input voltage range: Maximum</b>	240.0 V
<b>Output voltage check</b>	False

#### Additional Nameplate Image Files

<b>Model Details</b>	
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Please provide information specific to each model:

<b>Brand name:</b>	FSP
<b>Model number:</b>	FSP120-ABAN3

Please provide information common to all models:

<b>Nameplate output voltage:</b>	19.0 V
<b>Nameplate output power:</b>	120.0 W

<b>Test Results</b>	
<b>Nameplate output voltage: Minimum</b>	19.0 V
<b>Nameplate output voltage: Maximum</b>	19.0 V
<b>Nameplate output power: Minimum</b>	120.0 W
<b>Nameplate output power: Maximum</b>	120.0 W
<b>No load input power: Minimum:</b>	0.08 W
<b>No load input power: Maximum:</b>	0.08 W
<b>Average active mode efficiency: Minimum:</b>	90.77 %
<b>Average active mode efficiency: Maximum:</b>	90.77 %



## Section 3 - Test Details

### Test Report Information

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

### Test Laboratory

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

### Test Report(s)

<b>Report Number</b>	V180275
<b>Report Signatory</b>	Jason Wei
<b>Test Date</b>	1 Jun 2018
<b>Test Unit Serial Number</b>	V180275-2
<b>Test Report File</b>	Supplied



**Certificate Number:** AZ 69023205      **Page:** 0001

## CERTIFICATE OF APPROVAL

**Authorised marking:** TUV023205EA

*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-ABAN3

**Ratings:** I/P: AC 100-240V, 1.8A, 50-60Hz, Class I, IPX0  
O/P: DC 19V, 6.32A

**Standard:** AS/NZS 60950.1:2015

**Issue Date:** 03/01/2019  
**Expiry Date:** 03/01/2024

*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](http://www.jas-anz.org/register)

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



Ref. Certif. No.

JPTUV-096753

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; 1.8A; 50-60Hz; Class I  
Output: DC 19V; 6.32A

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

Panasonic

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

N/A

Model / Type Ref.  
Ref. de type

FSP120-ABAN3

Additional information (if necessary may also be  
reported on page 2)  
Les informations complémentaires (si nécessaire,  
peuvent être indiqués sur la 2<sup>ème</sup> page)

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

50135836 003

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: 09.05.2019

Signature:

Dipl.-Ing. F. Stöelzel



Ref. Certif. No.

JPTUV-096753

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.: 50135836 003

Date: 09.05.2019

Signature:



Dipl.-Ing. F. Stoelzel

# Certificate of Conformance

## Energy Efficiency Certification

UL conducted an independent evaluation on behalf of:

### FSP GROUP INC

22 Jianguo E Rd., Taoyuan City, 330 TW

for the following products:

**This product meets all of the necessary qualifications**

**pursuant to:**

Switching Power Adapter

NRCan: Amendment 14 to the Energy Efficiency Regulations for External Power Supplies in the Canada Gazette, Part II  
CEC: California Code of Regulations, Title 20, Division 2, Chapter 4, Article 4. Appliance Efficiency Regulations, Sections 1601 through 1609  
US DoE: Office of Energy Efficiency and Renewable Energy 10 CFR Parts 429 and 430  
Quebec: Regulation respecting the energy efficiency of electrical or hydrocarbon-fuelled appliances  
Australian (Greenhouse and Energy Minimum Standards (External Power Supplies) Determination 2014) and New Zealand (Minimum energy performance standards)  
EU Directive for Energy-related Products ErP 2009/125/EC and Implementing Measure (IM) no. EC278/2009 for External Power Supply  
International Efficiency Marking Protocol for External Power Supplies, Version 3.0, Level VI

Brand:  
Panasonic

Model Number:  
FSP120-ABAN3



2019-05-27

Certification Date

N/A

Certification Revision Date

Issued by

4788985327

UL Product Number

00-V5-F0418, Version 8.0. This is to certify that representative samples of the Certified Product(s) listed above have been investigated by UL to the Standard(s) indicated on this certificate, in accordance with the UL Global Services Agreement and the EEC Terms & Conditions ("Agreement"). The Certificate Holder is entitled to use the UL Energy Verified Mark for the Certified Product(s) listed on the certificate and manufactured at the production site(s) covered by the UL Test Report, in accordance with the terms of the Agreement. This Certificate shall remain valid unless a Standard identified on this Certificate is amended or withdrawn prior to that date or there is a non-compliance with the Agreement.



**Certificate Number:** AZ 69023569      **Page:** 0001

## CERTIFICATE OF APPROVAL

**Authorised marking:** TUV023569EA

*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:** Panasonic

**Model Number:** FSP120-ABAN3

**Ratings:** I/P: AC 100-240V, 1.8A, 50-60Hz, Class I, IPX0  
O/P: 19Vdc, 6.32A

**Standard:** AS/NZS 60950.1:2015

**Issue Date:** 21/06/2019  
**Expiry Date:** 21/06/2024

*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](http://www.jas-anz.org/register)

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



## AUSTRALIAN GEMS REGULATOR

1 July 2019

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.

<b>Registration No</b>	<b>Product Type</b>	<b>Brand Name</b>	<b>Model</b>	<b>Date of Registration</b>	<b>Record ID</b>
APS7206	External Power Supply	Panasonic	FSP120-ABAN3	1 July 2019	122384

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](http://www.energyrating.gov.au).

Yours sincerely,

Michael Grubert

**Authorised Delegate  
for the Australian GEMS Regulator**



## GEMS Regulator Equipment Energy Efficiency

## Registration #122384

APS7206

## Section 1 - Overview

## Models

Model Number	FSP120-ABAN3
Brand	Panasonic

## Administrative Details

Status	Approved
Registration Number	APS7206
Regulatory Authority	Australian Regulator
Regulator Terms Accepted	Yes
Agency	Victoria
Submitted Date	28 Jun 2019
Registration Date	1 Jul 2019
Expiry Date	1 Jul 2024
Clock Run Time	3
Date Approved	1 Jul 2019
Archive Status	Not Archived
Suspension Status	Not Suspended
Approval Certificate	<a href="#">Click to download</a>

## 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	<a href="http://www.fsp-group.com/">http://www.fsp-group.com/</a>
Applicant Address	No. 22, Jianguo E.Rd.,

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

#### Payment

<b>Payment Status</b>	Paid
<b>Payment Method</b>	On-line payment via (Reserve Bank)
<b>Payment Amount</b>	440.0
<b>Payment Date</b>	28 Jun 2019

#### Administrative Contact

<b>Name</b>	Kael Amif
<b>Organization</b>	AMIF Pty Ltd
<b>Job Title</b>	Manager
<b>Phone Number</b>	02-46476680
<b>Fax Number</b>	Not supplied
<b>Email</b>	kael.amif@gmail.com
<b>Address</b>	48 Fairwater DR Harrington Park, NSW, 2567 Australia

#### Technical Contact

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

#### Accounts Payable Contact

As for administrative contact

#### Information for Public Website

<b>Availability Status</b>	Available
<b>Date First Available</b>	30 Jun 2019
<b>Date Available Until</b>	16 Jun 2024
<b>Publication Status</b>	Published
<b>Publication Date</b>	1 Jul 2019
<b>Product Images</b>	None Supplied
<b>Product Website</b>	None supplied
<b>User Manual</b>	None supplied

## Section 2 - Product Details

#### Models

<b>Model Number</b>	FSP120-ABAN3
---------------------	--------------

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

**Availability**

<b>Date of First Availability</b>	30 Jun 2019
<b>Selling Countries</b>	Australia Fiji New Zealand

**Date of Manufacture**

<b>Method of Determination</b>	No date mark
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**Appliance Details**

<b>Product configuration</b>	AC-DC
<b>Nameplate Image</b>	<a href="#">attachments/Label.jpg</a>
<b>Nameplate input frequency range: Minimum:</b>	50.0 Hz
<b>Nameplate input frequency range: Maximum:</b>	60.0 Hz
<b>Nameplate input voltage range: Minimum</b>	100.0 V
<b>Nameplate input voltage range: Maximum</b>	240.0 V
<b>Output voltage check</b>	True

**Additional Nameplate Image Files****Model Details**

Please provide information specific to each model:

<b>Brand name:</b>	Panasonic
<b>Model number:</b>	FSP120-ABAN3

Please provide information common to all models:

<b>Nameplate output voltage:</b>	19.0 V
<b>Nameplate output power:</b>	120.0 W

**Test Results**

<b>Nameplate output voltage: Minimum</b>	19.0 V
<b>Nameplate output voltage: Maximum</b>	19.0 V
<b>Nameplate output power: Minimum</b>	120.0 W
<b>Nameplate output power: Maximum</b>	120.0 W
<b>No load input power: Minimum:</b>	0.08 W
<b>No load input power: Maximum:</b>	0.08 W
<b>Average active mode efficiency: Minimum:</b>	90.77 %
<b>Average active mode efficiency: Maximum:</b>	90.77 %

## 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	V190311
Report Signatory	Jason Wei
Test Date	30 May 2019
Test Unit Serial Number	V190311-2
Test Report File	Supplied



# 안전인증서 Safety Certificate

안전인증번호 : HU10142-19197B  
(Application 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  
(Address) Town, BaoAn Dist., Shenzhen City, Guangdong, China

제품명 : 직류전원장치  
(Product)

기본모델명 : FSP120-ABAN3  
(Basic Model)

파생모델명 (Series Model) :

정격/안전기준상의 모델구분 : 100-240 V~, 50-60 Hz, 1.8 A (O/P: 19 Vdc, 6.32 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 Article 9(2), 9(4), 10(2)  
or 15(2) of the Enforcement Rule of the Electrical Appliances and Consumer Products Safety Control Act.

2022년 04월 21일  
(Year) (Month) (Day)

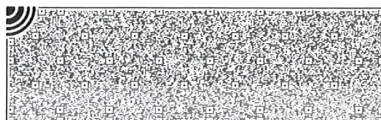


한국기계전기전자시험연구원  
Korea Testing Certification Institute



※ 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(Description of the basic and series model) 3. 안전인증의 변경 현황(Revisions Status)
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# 기술 문서

## Technical Document

page : 1 / 10

안전인증번호 : HU10142-19197B

접수번호 : KCA2022-01173

(Certificate No)

(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)

구 분 (Section)	내 용 (Description)
용도 (Normal use)	AC/DC Switching Adapter
내부구조 (Internal construction)	It consists of X & Y-cap, Switching transformer, fuse etc.
외부구조 (External construction)	It consists of the plastic enclosure and appliance inlet.
기타(others)	Class I, CB Test Certificate is issued by TUV Rheinland Japan Ltd. (JPTUV-087485-A1, JPTUV-096753)

#### 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)

구분 (Class)	모 델 명 및 정 격 (Model / Rating)		기본모델과의 차이점 (Difference between basic model and series model)
기본모델 (Basic model)	FSP120-ABAN3	100-240 V~, 50-60 Hz, 1.8 A (O/P: 19 Vdc, 6.32 A)	

### 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 (Topside)	Lotte Chemical Corporation	HN-1064(+)	1.9 mm thick V-0 min., 130 ℃ min.	UL
(Alt.)	Sabic Innovative Plastics US L L C	945 (GG)	1.9 mm thick V-0 or better, 120 ℃ min.	UL
(Alt.)	Lotte Chemical Corporation	EN-1052(+)	1.9 mm thick V-0 min., 130 ℃ min.	UL
Plastic Enclosure (Bottom side)	Lotte Chemical Corporation	HN-1064(+)	1.6 mm thick V-0 min., 130 ℃ min.	UL

[서식 CP401-18-00]



# 기술문서 Technical Document

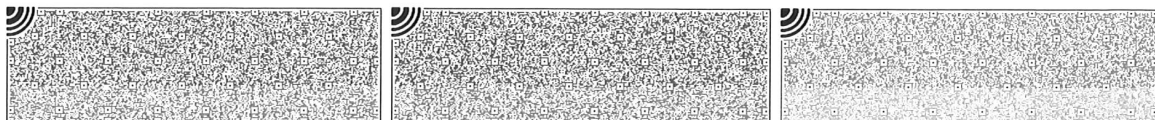
page : 2 / 10

안전인증번호 : HU10142-19197B  
(Certificate No)

접수번호 : KCA2022-01173  
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alt.)	Sabic Innovative Plastics US L L C	945 (GG)	1.6 mm thick V-0 or better, 120 °C min.	UL
(Alt.)	Lotte Chemical Corporation	EN-1052(+)	1.6 mm thick V-0 min., 130 °C min.	UL
AC Inlet (SC101) (C14 type)	Tecx-Unions Technology Corp.	TU-301-A, TU-301-S, TU-301-SP series	10 A, 250 Vac, 70 °C	IEC
(Alt.)	Solteam Electronics Co., Ltd.	ST-01	10 A, 250 Vac, 70 °C	IEC
(Alt.)	HCR Electronics Co., Ltd.	SK01	10 A, 250 Vac, 70 °C	IEC
(Alt.)	Rong Feng Industrial Co., Ltd.	SS-120, SS-7B	10 A, 250 Vac, 70 °C	IEC
(Alt.)	Dong IL Technology Ltd.	DAC-11PM	10 A, 250 Vac, 70 °C	IEC
(Alt.)	Zhe Jiang Bei Er Jia ElectronicWnCo., Ltd.	ST-A01-001L, ST-A01-002L, ST-A01-003J, ST-A01-003K	10 A, 250 Vac, 70 °C	IEC
(Alt.)	Canal Electronic Co., Ltd.	KS-101, KS-201, KS-202, KS-303, KS-406	10 A, 250 Vac, 70 °C	IEC
(Alt.)	Rich Bay Co., Ltd.	R-301SN	10 A, 250 Vac, 70 °C	IEC
(Alt.)	Inalways Corporation	0714-..... Series	10 A, 250 Vac, 70 °C	IEC
(Alt.)	Inalways Corporation	0711 series	10 A, 250 Vac, 70 °C	IEC
Fuse (F101)	Littelfuse, Inc. Wickmann - Werke (VDE) Littelfuse Wickmann Werke (UL)	392	250 Vac, T4.0 AL	IEC
(Alt.)	Ever Island Electric Co Ltd & Walter Electric Co., Ltd.	2010 series	250 Vac, T4.0 AL	IEC

[서식 CP401-18-00]



# 기술문서 Technical Document

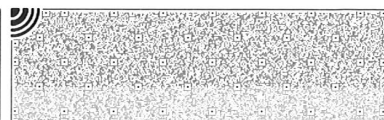
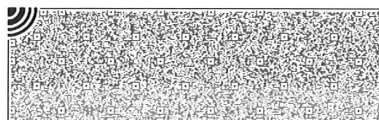
page : 3 / 10

안전인증번호 : HU10142-19197B  
(Certificate No)

접수번호 : KCA2022-01173  
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alt.)	Conquer Electronics Co., Ltd.	MST-series	250 Vac, T4.0 AL	IEC
(Alt.)	BEL Fuse Ltd.	RST-series	250 Vac, T4.0 AL	IEC
(Alt.)	Cooper Bussmann L L C	SS-5	250 Vac, T4.0 AL	IEC
Varistor (VA101) (Optional)	Thinking Electronic Industrial Co., Ltd.	TVR10471-D, TVR10471-V, TVR10471-M, TVR14471, TVR14471-D, TVR14471-V, TVR14471-M	300 Vac, 385 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10511-D, TVR10511-V, TVR10511-M, TVR14511, TVR14511-D, TVR14511-V, TVR14511-M	320 Vac, 410 Vdc (Flame class of body coating complied with V-0)	IEC
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10621-D, TVR10621-V, TVR10621-M, TVR14621, TVR14621-D, TVR14621-V, TVR14621-M	395 Vac, 510 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10561-D, TVR10561-V, TVR10561-M, TVR14561, TVR14561-D, TVR14561-V, TVR14561-M	350 Vac, 450 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10681-D, TVR10681-V, TVR10681-M, TVR14681, TVR14681-D, TVR14681-V, TVR14681-M	420 Vac, 560 Vdc (Flame class of body coating complied with V- 0)	IEC

[서식 CP401-18-00]





# 기술문서 Technical Document

page : 4 / 10

안전인증번호 : HU10142-19197B

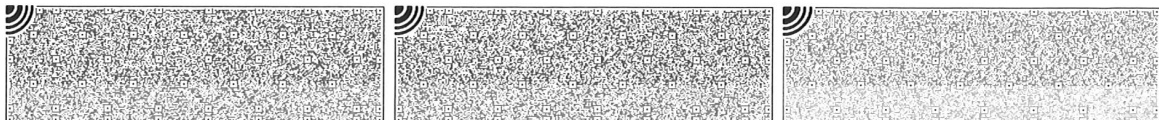
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(Certificate No)

(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alt.)	Thinking Electronic Industrial Co., Ltd.	TVR10751-D,  TVR10751-V, TVR10751-M, TVR14751, TVR14751-D, TVR14751-V, TVR14751-M	465 Vac, 615 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D471K, 14D471K	300 Vac, 385 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D511K, 14D511K	320 Vac, 415 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D561K, 14D561K	350 Vac, 460 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D621K, 14D621K	385 Vac, 505 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	10D681K, 14D681K	420 Vac, 560 Vdc (Flame class of body coating complied with V- 0)	IEC
(Alt.)	Guangxi New Future Information Industry Co., Ltd.	14D751K	460 Vac, 615 Vdc (Flame class of body coating complied with V- 0)	IEC
Choke (LF101) (Optional)	FSP/SPI	8LM00352	130 ℃	--
Choke (LF102) (Optional)	FSP/SPI	8LM05152	130 ℃	--
Choke (L603) (Optional)	FSP/SPI	8LM01758	130 ℃	--
(Alt.)	FSP/SPI	8LM05338	130 ℃	130 ℃

[서식 CP401-18-00]



# 기술문서 Technical Document

page : 5 / 10

안전인증번호 : HU10142-19197B  
(Certificate No)

접수번호 : KCA2022-01173  
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
PFC Choke (L601)	FSP/SPI	8TI01942	130 ℃	--
(Alt.)	FSP/SPI	8TI0856	130 ℃	--
X-Capacitor (CX101) (Optional)	Hua Jung Components Co., Ltd.	MKP	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	ZhuHai Sung Ho Electronics Co.,Ltd.	CMPP	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	Okaya Electric Industries Co.,Ltd.	LE(-*)	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	Okaya Electric Industries Co.,Ltd.	RE-Series	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	Carli Electronics	MPX	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	Shiny Space Enterprise Co., Ltd.	SX1	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	Chiefcon Electronics Co., Ltd.	CKX	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	Ultra Tech Xiphi Enterprise Co Ltd	HQX	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	Cheng Tung Industrial Co., Ltd.	CTX	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
(Alt.)	Wuxi Jiyang Electron Co., Ltd.	MKP	Max. 0.33 μF, min. 250 Vac, min. 100 ℃	IEC
Transformer (T101)	FSP/SPI	8TT00568	Class B, UL Insulation system type DJ- 130	IEC, Tested with appliance
(Alt.)	FSP/SPI	8TT00548	Class B, UL Insulation system type DJ- 130	IEC, Tested with appliance
Bridging-Capacitor (CY104) (optional)Wn(Y1 type)	Walsin Technology Corp.	AH, Series AS	Max. 2200 pF, min. 250 V, min. 125 ℃	IEC

[서식 CP401-18-00]



# 기술문서 Technical Document

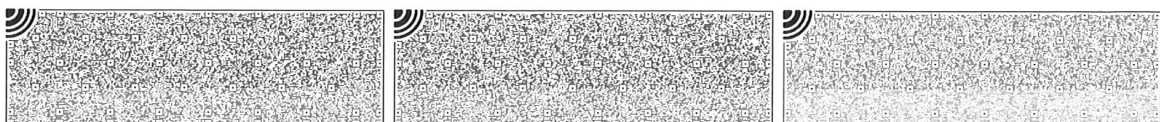
page : 6 / 10

안전인증번호 : HU10142-19197B  
(Certificate No)

접수번호 : KCA2022-01173  
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alt.)	TDK Corporation	CD, CD (miniature series)	Max. 2200 pF, min. 250 V, min. 125 °C	IEC
(Alt.)	Murata Mfg Co.,	KX	Max. 2200 pF, min. 250 V, min. 125 °C	IEC
(Alt.)	Murata Mfg Co., Ltd.	RA-series	Max. 2200 pF, min. 250 V, min. 125 °C	IEC
(Alt.)	Success Electronics Co., Ltd.	SE, SF, SB	Max. 2200 pF, min. 250 V, min. 125 °C	IEC
(Alt.)	Guangdng Huiwan Electronics Technology Co., Ltd.	AR	Max. 2200 pF, min. 250 V, min. 125 °C	IEC
Photo Coupler (PC101)	Cosmo Electronics Corp.	KT10XX (XX=00-ZZ)	Dti=0.7 mm, Int. dcr= thermal cycling test, Ext. dcr=8.6 mm, 115 °C	EN
(Alt.)	Cosmo Electronics Corp.	K1010	Dti=0.5 mm, Int. dcr = thermal cycling test, Ext. dcr= 8.0 mm, 115 °C	IEC
(Alt.)	Everlight Electronics Co., Ltd.	EL1018, EL1019	Dti=0.4 mm, Int. dcr=thermal cycling test, Ext. dcr = 8.1 mm, 110 °C, thermal cycling test.	EN
(Alt.)	Lite-On Technology Corporation	LTV-1007, LTV-1008, LTV-1009	Dti=0.4 mm, Int. dcr=thermal cycling test, Ext. dcr= 8.3 mm, 115 °C	EN
(Alt.)	Everlight Electronics Co., Ltd.	EL817.	Dti=0.5 mm, Int. dcr=6.0 mm, Ext. dcr= 7.7 mm, 110 °C, thermal cycling test.	EN
(Alt.)	Everlight Electronics Co., Ltd.	EL817S1	Dti=0.5mm, Int. dcr=6.0mm, Ext. dcr= 7.7mm, 110°C, thermal cycling test.	IEC

[서식 CP401-18-00]



# 기술문서 Technical Document

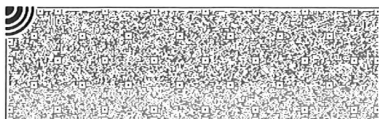
page : 7 / 10

안전인증번호 : HU10142-19197B  
(Certificate No)

접수번호 : KCA2022-01173  
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
(Alt.)	Everlight Electronics Co., Ltd.	EL817S2	Dti = 0.4mm min., Int. dcr =thermal cycling Ext. dcr= 8.0mm, 110°C, thermal cycling test.	IEC
(Alt.)	Vishay Semiconductor GmbH	TCLT1008	Dti=0.43 mm, Int. dcr = thermal cycling test, Ext. dcr= 8.25 mm, 110 °C	EN
(Alt.)	Vishay Semiconductor GmbH	VOL617A	Dti=0.43 mm, Int. dcr = thermal cycling test, Ext. dcr= 8.25 mm, 110 °C	EN
(Alt.)	Lite-On Technology Corporation	LTV-817	Dti=0.6 mm, Int. dcr=thermal cycling test, Ext. dcr= 7.8 mm, 115 °C	EN
(Alt.)	CT Micro International Corporation	CT817A, CT817B, CT817C	Dti=0.4 mm, Ext. dcr= 8.0 mm, Vini,a / Vini,b = 4000 Vpeak, 110°C	IEC
(Alt.)	CT Micro International Corporation	CT1017, CT1018, CT1019	Dti = 0.4 mm min., Ext. dcr = 8.0 mm, Vini,a / Vini,b = 4000 Vpeak, 110°C	IEC
ICX (controllor IC integrating capacitor discharging function) (U601) (for PCB type A)	NXP Semiconductor Taiwan Ltd.	TEA19162T/2	100-240 Vac, 47-63 Hz	IEC (CB)
ICX (controllor IC integrating capacitor discharging function) (U101) (for PCB type B)	NXP SEMICONDUCTORS NETHERLANDS B V	TEA2016YZTN( Y, Z could be A~Z or 0~9 or blank within for specific application; N could be any combination by / or A~Z or 0~9 or blank)	Tested voltage: 100 - 264 Vac, 60 Hz Total cap.: 0.1 - 4.6 µF, Total resistors: min. 5 MΩ, Diode: Min. 400 V, min. 0.5 A (optional)	IEC (CB Cert.:DK-8947 8-UL)
Thermistor (TH601) (optional)	Thinking Electronic Industrial Co., Ltd.	TSM1B473	Max. 47 kΩ at 25 °C	IEC

[서식 CP401-18-00]



# 기술문서 Technical Document

page : 8 / 10

안전인증번호 : HU10142-19197B  
(Certificate No)

접수번호 : KCA2022-01173  
(Receipt No)

부품명(회로기호) Components(Part no.)	제조사(상표명) Manufacturer(Brand)	모델명(형식) Model(Type)	정격 또는 특성 (Technical Data)	인증규격 (Certification)
Bridge Diode (BD101)	Interchangeable	Interchangeable	Min. 4 A, min. 600 V	--
Current Resistor (R621) (for PCB type A used)	Interchangeable	Interchangeable	Min. 0.056 Ω, min. 2 W	--
Current Resistor (R621) (for PCB type B used)	Interchangeable	Interchangeable	Min. 0.035 Ω, min. 2 W	-
PCB	Interchangeable	Interchangeable	V-0 or better, 130 °C min.	UL
Capacitor (C101)	Interchangeable	Interchangeable	Min. 105 °C	--
Capacitors (C112, C201) (optional)	Interchangeable	Interchangeable	Min. 105 °C	--
Capacitors (C202, C203, C205)	Interchangeable	Interchangeable	Min. 105 °C	--
Capacitor (C607)	Interchangeable	Interchangeable	Min. 105 °C	--
Capacitor (C612) (optional)	Interchangeable	Interchangeable	Min. 105 °C	--

### 3. 전기용품안전인증의 변경현황(Status of Certificate Revisions)

일자(Date)	발급현황(Status of issues)
	변경내용(Modification of Contents)
2019/08/05	기본모델(Basic Model)
2022/04/21	부품변경, 분실재발급

### 4. 기타(Carefully Informed Note)

[서식 CP401-18-00]



# 기술문서 Technical Document

page : 9 / 10

안전인증번호 : HU10142-19197B  
(Certificate No)

접수번호 : KCA2022-01173  
(Receipt No)

- 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 될수 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 제 11조에 따라 안전인증이 취소될수 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]

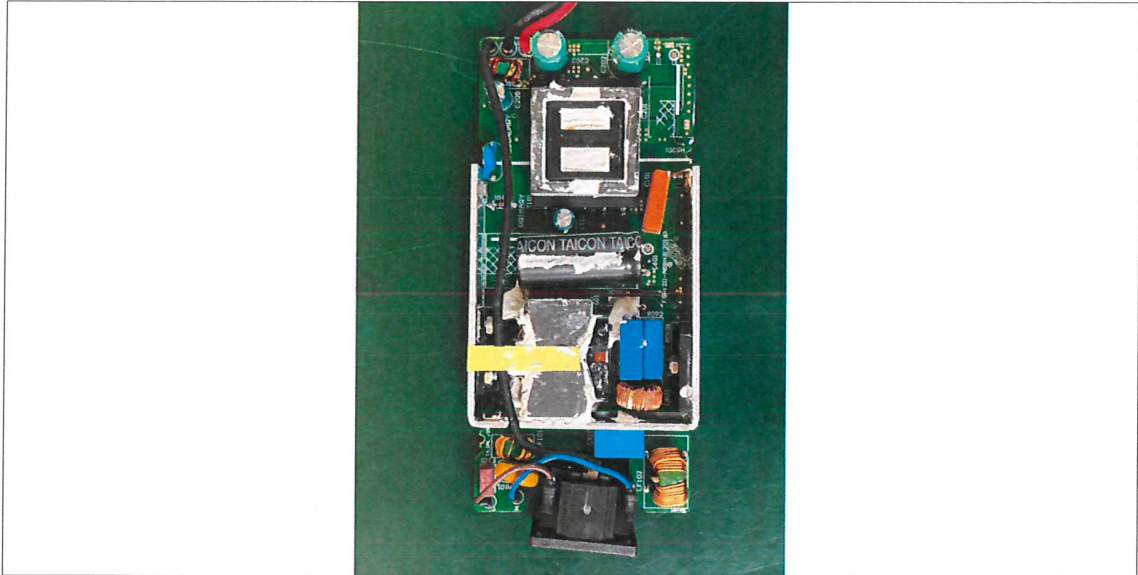


# 기술문서붙임자료

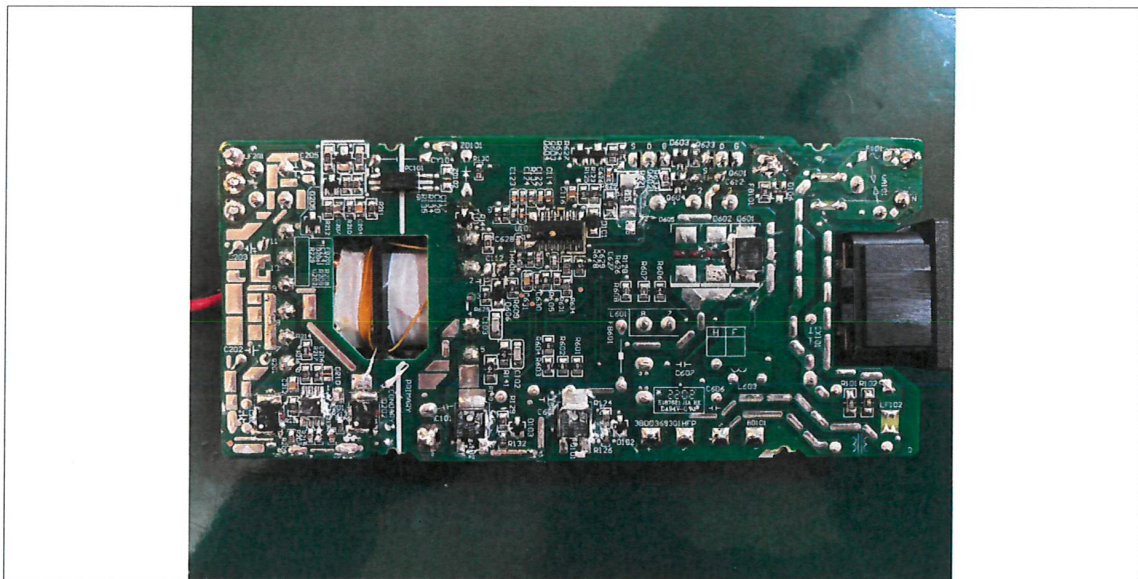
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접수번호 : KCA2022-01173

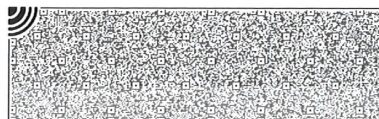
NO. 1 내부사진




NO. 2 내부사진

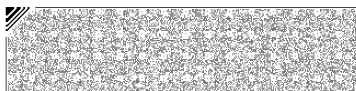


한국기계전기전자시험연구원  
Korea Testing Certification



489D-CD1C-B624-CB1B

변경신고 처리결과 통보서				
전자민원신청번호		202217210000109705	접수일자	2022-04-07
대상기기	상호 또는 성명	Zhonghan Electronics (Shenzhen) Co., Ltd.	적합성평가 분야	적합등록
	기자재 명칭	Switching Power Adapter	기본모델명	FSP120-ABAN3
	적합성평가 번호	R-R-FSZ-FSP120-ABAN3	적합성평가 연 월 일	2022-04-07
기술기준	Mainboard changing : Version 1	Mainboard changing : Version 1 Mainboard changing : Version 2 Add alternative schematic / PCB layout, which is denotes as type B. It is similar to previous, which denotes as type A; except for major change for ICX (controllor IC integrating capacitor discharging function)(U101).  <기술적용분야: EMC>		
<p>「방송통신기자재등의 적합성평가에 관한 고시」 제16조에 따른 적합성평가 사항의 변경신고 건에 대하여 위와 같이 변경처리 되었음을 알려드립니다.</p> <p>2022년(Year) 04월(Month) 07일(Date)</p> <p style="text-align: center;">국립전파연구원장 </p>				





1546-8229-7895-B93D

# 방송통신기자재등의 적합등록 필증

## Registration of Broadcasting and Communication Equipments

상호 또는 성명 <i>Trade Name or Registrant</i>	Zhonghan Electronics (Shenzhen) Co., Ltd.
기자재명칭(제품명칭) <i>Equipment Name</i>	Switching Power Adapter
기기부호/추가 기기부호 <i>Equipment code /Additional Equipment code</i>	IMI
기본모델명 <i>Basic Model Number</i>	FSP120-ABAN3
파생모델명 <i>Series Model Number</i>	
등록번호 <i>Registration No.</i>	R-R-FSZ-FSP120-ABAN3
제조사/제조국가 <i>Manufacturer/Country of Origin</i>	Zhonghan Electronics (Shenzhen) Co., Ltd. / 중국
등록연월일 <i>Date of Registration</i>	2019-08-02
기타 <i>Others</i>	

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.

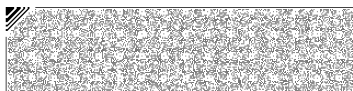
2022년(Year) 04월(Month) 07일(Day)

국립전파연구원장



Director General of National Radio Research Agency

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



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+Cr<sup>6+</sup> <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.



# TSCA PBT 符合性聲明書

## TSCA PBT Declaration of Conformance



敬請 貴公司 知悉與回應如下：

因應美國環保署(EPA)於2020年12月更新美國TSCA(Toxic Substances Control Act)毒性物質管理法第6(h)節5項具有PBT(Persistent、Bio-accumulative and Toxic)毒性的化學物質管理要求，請貴公司配合回應：交貨與研揚的材料，成品，須符合此法規更新。

物質名稱	限制要求	豁免要求
Decabromodiphenyl ether (DecaBDE) 十溴二苯醚 CAS No. 1163-19-5	<ul style="list-style-type: none"> <li>- 2022年7月6日之後，禁止用於酒店業的添加 DecaBDE 窗簾的製造、加工和商業分銷</li> <li>- 2021年3月8日之後，禁止製造和加工其他含 DecaBDE 的物品</li> <li>- 2022年1月6日之後，禁止進行商業分銷</li> </ul>	商業上用於從物品中回收含 DecaBDE 的塑料以及由這種回收塑料製成的含 DecaBDE 的製品的商業加工和分銷，在回收或生產過程中未添加新的 DecaBDE
Phenol, isopropylated phosphate (3:1) [PIP (3:1)] 異丙基化磷酸三苯酯 CAS No. 68937-41-7	<ul style="list-style-type: none"> <li>- 2022年1月1日之後，禁止含 PIP (3:1) 照相印 刷物品的商業加工和分銷</li> <li>- 2021年3月8日之後，禁止其他含 PIP (3:1)物 品的商業加工和分銷</li> </ul>	<ul style="list-style-type: none"> <li>- 用於從含 PIP (3:1)的物品中回收的塑料，其中在回收過程中未添加新的 PIP (3:1)</li> <li>- 從包含 PIP (3:1)的產品或物品中回收的塑料製成的成品，其中在生產由再生塑料製成的物品時未添加新的 PIP (3:1)</li> </ul>
Pentachlorothiophenol (PCTP) 五氯硫酚 CAS No. 133-49-3	<ul style="list-style-type: none"> <li>- 2021年3月8日之後，禁止製造和加工 PCTP 含量超過 1%的物品</li> <li>- 2022年1月6日之後，禁止進行商業分銷</li> </ul>	--



# TSCA PBT 符合性聲明書

## TSCA PBT Declaration of Conformance

Hexachlorobutadiene (HCBD) 六氯丁二烯 CAS No. 87-68-3	- 2021年3月8日之後，禁止製造、加工和銷售 含六氯丁二烯的物品	--
2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP) 2,4,6 三-叔丁基苯酚 CAS No. 732-26-3	- 與成品使用無關	--

美國環保署(EPA) TSCA(Toxic Substances Control Act)毒性物質管理法第 6(h)網

址：

<https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under>

美國環保署(EPA) TSCA(Toxic Substances Control Act)毒性物質管理法第 6(h) 節 5

項具有 PBT 毒性的化學物質管理要求，

符合；  不符合



公司名稱 Company name : \_\_\_\_\_

公司負責人 Company Responsible Person : \_\_\_\_\_

立書人： \_\_\_\_\_

立書人職稱： \_\_\_\_\_

本聲明書聲明日期： \_\_\_\_\_