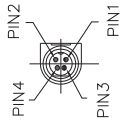
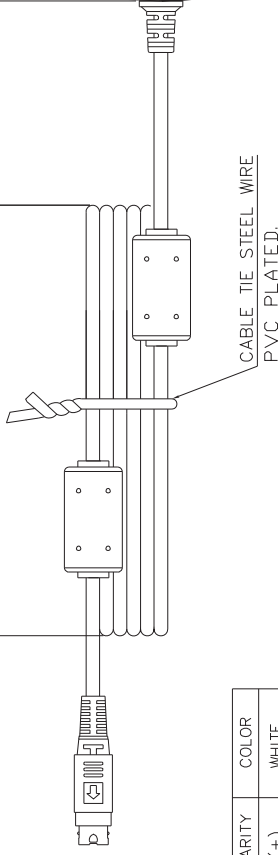
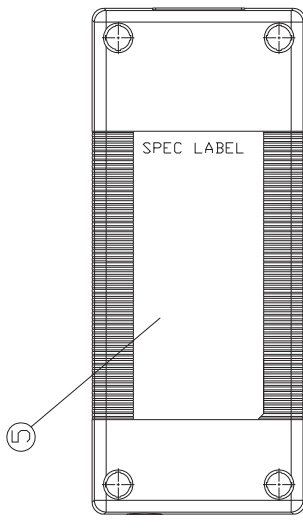
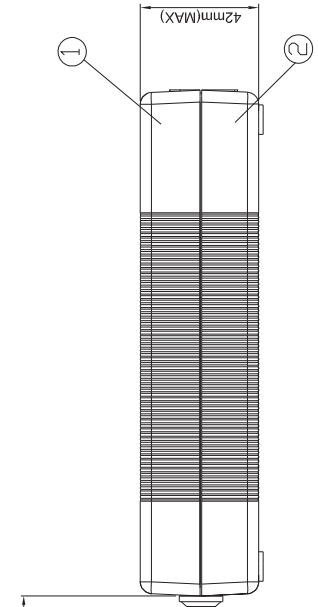


*1500±50



DIN PLUG	POLARITY	COLOR
P2	VO(+)	WHITE
P4		
SHIELD		
P1	GND(-)	BLACK
P3		

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

P/N:9NA1503904

MODEL NO. : FSP150-AHAN2	TITLE : Physical Dimension	SHEET : 1 OF 1	REV : 01
R&D3 Division	P E	DRAWN	DATE
L.J. Wei	Angela	Angela	2014-09-24
INTERIOR COUNTERSIGN			

THIRD ANGLE PRODUCTION	DIMENSIONAL TOLERANCES	HOUZER : ±0.05	ANGLES : ±0.6°
()	()	()	()
Spec: ±0.2	100-150 : ±0.2	850-900 : ±0.4	150-200 : ±1.6
>300-1000 : ±0.4	100-150 : ±0.26	900-950 : ±0.46	800-900 : ±2.2
>1000-3000 : ±0.4	150-200 : ±0.3	950-1000 : ±0.5	900-OVER : ±3.1
>3000-5000 : ±0.6	200-250 : ±0.35		
ABOVE 5000 : ±0.8			

SCALE : 1:1
UNIT : mm



全漢企業股份有限公司
FSP TECHNOLOGY INC.

台灣桃園市建國東路22號 統一編號：84239055
No. 22, Jianguo East Road., Taoyuan City, Taiwan, R.O.C.
TEL: +886-3-375-8888 Website: www.FSP-group.com
FAX: +886-3-375-6985 Email: sales@fsp-group.com.tw

SPECIFICATION



ESD13015681



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 TEL:+886-3-375-9888 Website : www.FSP-group.com
 FAX:+886-3-375-6966 Email : sales@fsp-group.com.tw

Efficiency Testing Criteria

The Product Meet	Regulation	Output Power	Average Efficiency in Active Mode	Maximum Power in No Load	Total Harmonic Distortion	115V/60HZ 100% Load
	Energy Star EPS2.0	$\geq 50W$	$\geq 87\%$	$\leq 0.5W$	THD,V <2%	PF>0.9
	ErP Lot 7 Tier2	>51W	$\geq 87\%$	$\leq 0.5W$	THD,V <2%	PF>0.9



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SPECIFICATION

AC Adapter
FSP150-AHAN2

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

表單編號：7000P-0105



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 / 12.5A load	≤ 2A	
1.5 Input Current Harmonic:		IEC61000-3-2	
1.6 Efficiency: (Warm up 10minutes later)	100Vac / 12.5A load 240Vac / 12.5A load	≥ 86% ≥ 88%	※ Meet : (1) 【ErP】 Energy-related Products (2) 【DOE】 Department of Energy
1.7 Power Saving:	115Vac, 230Vac / 0A load 115Vac, 230Vac / 20.8mA load(0.25W)	≤ 0.21W ≤ 0.5W	
1.8 Inrush Current:	100Vac, 240Vac / 12.5A load	Shall be less than the rating of adapter critical component (including rectifiers, fuse surge and current limiting device)	

MODEL NO. **FSP150-AHAN2**

SHEET 2 OF 7



Electrical Specification

2. Output Characteristics:

※Measured at the end of DC cable.

ITEM	CONDITION	SPECIFICATION
2.1 Output Rated Voltage:		12V
2.2 Output Current:	at constant voltage mode	0A to 12.5A
2.3 Output Voltage Setting:	at the output end of DC cable	12V \pm 5%
2.4 Output Voltage Ripple and Noise: (0.1uF Ceramic Cap. and 35V 47uF Aluminum Cap. Paralleled between the end of output cable)	(1)100Vac, 240Vac / 0A~1.6A load (2)100Vac, 240Vac / 1.61A~12.5A load	\leq 500mVp-p \leq 350mVp-p
2.5 Turn-On Delay Time:	At 100Vac / 12.5A load, output voltage shall remain regulation	\leq 3Sec
2.6 Hold Up Time:	At 100Vac or 240Vac / 12.5A load, output voltage shall remain regulation	\geq 10ms
2.7 Rise Time:	At 100Vac / 12.5A load, DC output rise time from 5% to 95% of Vo	\leq 50ms
2.8 Dynamic Load Change:	(1) Output load step is : 【1】 0 %~50 % 【2】 50 %~100 % (2) S/R=0.5A/us (3) Frequency is 100Hz and 1KHz	12V \pm 10%
2.9 Overshoot:	100Vac, 240Vac / 0A and 12.5A load	12V \pm 10%

MODEL NO. **FSP150-AHAN2**

SHEET 3 OF 7



Electrical Specification

3. Protection Characteristics:

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

MODEL NO. **FSP150-AHAN2**

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 Ω)	Air Discharge: $\pm 15\text{KV}$ Contact Discharge: $\pm 8\text{KV}$	Normal operation shall be continued
4.4 Cooling:	Natural air cooling	
4.5 EMI: Adapter comply with the following national standards: EMI Conducted Emission EMI Radiated Emission	1.Full Load 2. The power supply with internal filter can meet.	FCC PART 15J CLASS B CISPR22 EN55022 CLASS B VCCI LEVEL II
4.6 Safety conforming: 4.6.1 Energy-related Products 【ErP】 Department of Energy 【DOE】		Regulated by customer Comply with ErP standard Comply with DOE standard
4.7 Leakage Current:	264Vac / 50Hz	$\leq 0.25\text{mA}$
4.8 Dielectric Strength: (Hi-Pot)	Between AC input and secondary applied AC 1.5KV / test time 1 minute / cut off current shall be less than 10mA	
4.9 Temperature:	Operating Storage	0 to 40°C -20 to +80°C
4.10 Humidity:	Operating Storage	20% ~ 80% 10% ~ 90%

MODEL NO. **FSP150-AHAN2**

SHEET 5 OF 7



Electrical Specification

5. Mechanical Characteristics:		
ITEM	CONDITION	SPECIFICATION
5.1 Dimension (Length x Width x Height):		171 X 72 X 42 mm
5.2 Adapter weight:		800g (typical)
5.3 Input AC socket Type:		IEC 320-C14 Type
5.4 Vibration Test:	(1) Non-operating, 0.01g ² /Hz at 5Hz slopping to 0.02g ² /Hz at 20Hz, And maintain 0.02g ² /Hz from 20Hz ~ 500Hz (2) PSD=3.13grms, 15 minutes/axis (3) Vibration duration:15minutes (4) Vibration waveform:Random (5) Force Direction X,Y,Z	Normal operation shall be continued.
5.5 Acoustic Noise:	(1) Position the microphone 30 centimeters above the x-y center of the AC adapter (2) Input voltage:110Vac/60Hz 220Vac/50Hz	The EUT < 30dB

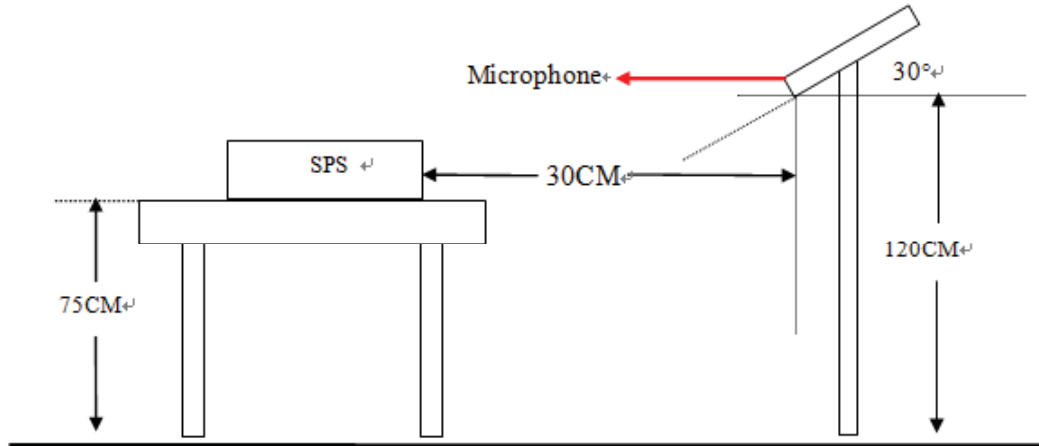
MODEL NO. **FSP150-AHAN2**

SHEET 6 OF 7



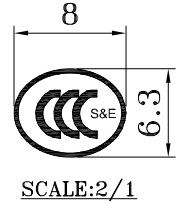
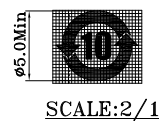
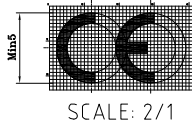
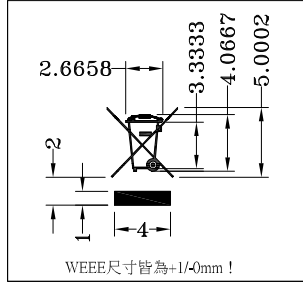
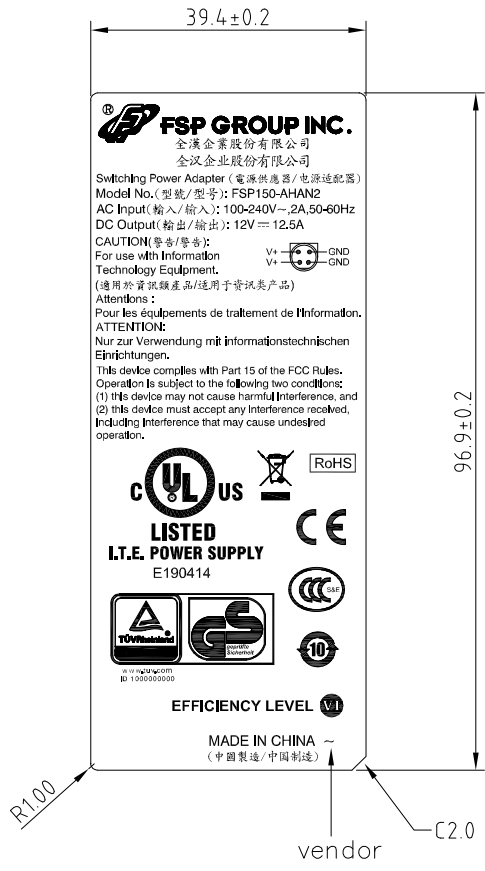
Electrical Specification

Note : Acoustic Noise



MODEL NO. **FSP150-AHAN2**

SHEET 7 OF 7



NOTES:

1. MATERIAL: WHITE POLYESTER + MYLAR COATING(半霧面), t=0.15±0.05mm.
ADHESIVE: # K.K. NO. 9 OR EQUIVALENT.
2. BACKGROUND'S COLOR: BLACK.
WORD'S COLOR: WHITE
3. "~" LABEL VENDER IN ENGLISH NAME, 2 LETTERS.
4. LABEL MUST BE DIE CUT PROPERLY AS PER DIMENSION.
5. LABEL MUST BE UL RECOGNIZED: PGDQ2 OR PGJ12 AND CSA CERTIFIED: Plastic Group III(polycarbonate).
6. THE LABEL IS SUPPOSED TO BE PASTED ON PC CASE EVENLY AND PROPERLY IT'S NOT ALLOWED TO HAVE ANY BULGE HAPPEN ON THE LABEL AFTER BE BURNT IN 72 HRS IN OVEN WHICH TEMPERATURE IS 100°C.
7. DIMENSIONS MARKED * MARK MUST BE INSPECTED AND CONTROLLED STRICTLY BY IQC.
8. THE PLASTIC MATERIAL OF APPLICATION SURFACE FOR THIS LABEL IS PC.
9. ALL SPECIFICATION MUST BEEN APPROVED BY DESIGN ENGINEER.
10. UNFOUNDED TOLERANCE: ±0.2mm.
11. THE FINISHED LABEL GOODS SHOULD ALL THE SAME AS THIS DRAWING;
INCLUDING: FONT TYPE, SYMBOLS, CONTENT, SIZE, POSITION,ETC.

SCALE: 1:1
UNIT: mm

P/N.: 6LL1523301GP

MODEL NO.:	FSP150-AHAN2(I22001)	TITLE:	SPEC LABEL	SHEET:	1 OF 1	REV:	01
R&D3 Division	PE	DRAWN	DATE				
L.J	Angela	Angela	2014-12-17				
INTERIOR COUNTERSIGN:							



適合証明書

Certificate of Conformity

証明書番号 Certificate No.

ページ Page

JD 50198125

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-113142690

ZTW1-FS-11024088 001

2011年02月23日

申請者 Applicant

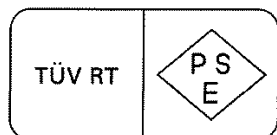
製造工場 Factory

ZhongHan Electronics (ShenZhen) Co., Ltd.

ZhongHan Electronics (ShenZhen) Co., Ltd.

JuYuan Industrial Zone TangWei Village, FuYong Town
BaoAn District, ShenZhen City 518103 P.R. China

JuYuan Industrial Zone TangWei Village, FuYong Town
BaoAn District, ShenZhen City 518103 P.R. China



検査の方法 Inspection Method

- ・技術基準 省令第2項 : J60950-1(H22), J55022(H22), J3000(H21)
Technical Requirements Clause 2: J60950-1 (H22): 2010, J55022 (H22): 2010, J3000 (H21): 2009
- ・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")

海外製造事業者

Overseas Manufacturer

ZhongHan Electronics (ShenZhen) Co., Ltd.

: JuYuan Industrial Zone TangWei Village, FuYong Town BaoAn District,
ShenZhen City 518103 P.R. China

客先名

Client

FSP Technology Inc.

: No.22, Jianguo E. Road Taoyuan 330, Taiwan

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 2016年02月22日まで有効です。
This certificate is effective until 22 February, 2016, being the period stipulated by the Enforcement Ordinance.

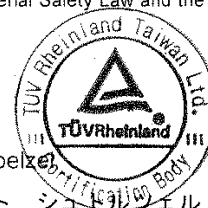
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This is to certify that the above-mentioned Specified Electrical Appliances and Materials and the factory which the above-mentioned applicant applied for have been complied with the Technical Requirements stipulated by Article 8, Paragraph 1 of the Electrical Appliance and Material Safety Law and the requirements stipulated by the METI Ordinance specified in Article 9, Paragraph 2 of the said law.

テュフ ラインランド 台湾リミテッド

TÜV Rheinland Taiwan Ltd.

発行者 Issued by



氏名 Name

Dipl.-Ing. F. Stoelze

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.

フリードリット シェルトヘル



添付 Attachment : 1.0

発行日 Date of Issue : 2011 年 02 月 23 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 50198125

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

申請者 (Applicant) : ZhongHan Electronics (ShenZhen) Co., Ltd.

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

客先名 (client) : FSP Technology Inc.

要素 Factor	区分 Classification
定格入力電圧 (Rated input voltage)	125V 以下のもの 及び 125V を超えるもの (125V or less, and exceeding 125V)
入力側の定格容量 (Rated capacity on input side)	100VA を超え 200VA 以下のもの (Exceeding 100VA, and less than or equal to 200VA)
定格周波数 (変圧器を有するものの場合に限る。) (Rated frequency (limited to those with transformer))	50Hz のもの 及び 60Hz のもの (50Hz, and 60Hz)
交流用端子 (AC terminal)	ないもの (Without AC terminal)
直流定格電圧 (Rated DC voltage)	15V 以下のもの (Less than or equal to 15V)
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)

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

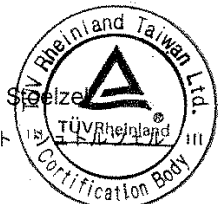
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発行者 Issued by

氏名 Name

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フリードリット



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適合証明書

Certificate of Conformity

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ページ Page

JD 50198125

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-113142690

ZTW1-FS-11024088 001

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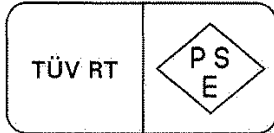
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検査の方法 Inspection Method

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Technical Requirements Clause 2: J60950-1 (H22): 2010, J55022 (H22): 2010, J3000 (H21): 2009
- ・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")

海外製造事業者
Overseas Manufacturer

: **ZhongHan Electronics (ShenZhen) Co., Ltd.**
:
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ShenZhen City 518103 P.R. China

客先名
Client

: **FSP Technology Inc.**
:
No.22, Jianguo E. Road Taoyuan 330, Taiwan

証明書の有効期間
Validity of Certificate

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TÜV Rheinland Taiwan Ltd.

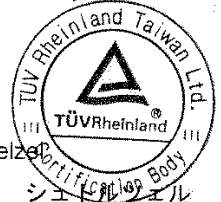
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氏名 Name

Dipl.-Ing. F. Stoelzel

フリードリッ ト シュトルツェル



【写し Authorized Valid Copy】



添付 Attachment : 1.0

発行日 Date of Issue : 2011 年 02 月 23 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 50198125

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

申請者 (Applicant) : ZhongHan Electronics (ShenZhen) Co., Ltd.

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

客先名 (client) : FSP Technology Inc.

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定格周波数 (変圧器を有するものの場合に限る。) (Rated frequency (limited to those with transformer))	50Hz のもの 及び 60Hz のもの (50Hz, and 60Hz)
交流用端子 (AC terminal)	ないもの (Without AC terminal)
直流定格電圧 (Rated DC voltage)	15V 以下のもの (Less than or equal to 15V)
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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)

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

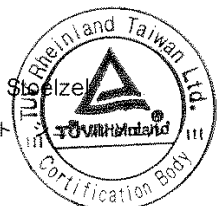
11 階、758、パートウロード、セクション4、ショウサン区、台北105、台湾
11F, No. 758, Bade Rd., Sec. 4, Songshan Dist., Taipei 105, Taiwan, R.O.C.

発行者 Issued by

氏名 Name

Dipl.-Ing. F. Stoelzel

フリードリット





VERIFICATION OF COMPLIANCE

This Verification of Compliance is hereby issued to the below named company. The test results of this report relate only to the tested sample identified in this report.

**Technical Standard: FCC Part 15 Class B (DoC)
IC ICES-003**

(Operation Environment: For Home And Office Use)

General Information

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

Product Description

EUT Description: Switching Power Adapter
Model Number: FSP150-AAAN2; FSP150-AABN2; FSP150-ABAN2;
FSP150-AHAN2; FSP150-AHBN2; FSP150-ABBN2

Measurement Facilities

Xindian Lab.: Compliance Certification Services Inc.
No.163-1, Jhongsheng Rd., Xindian Dist., New Taipei City, 23151 Taiwan.
Tel: +886-2-22170894 / Fax: +886-2-22171029

This device has been shown to be in compliance with and was tested in accordance with the measurement procedures specified in the Standards & Specifications listed above and as indicated in the measurement report number: T130801D03-D

Sam Hu / Assistant Manager

Date: August 09, 2013



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



VERIFICATION OF COMPLIANCE

This Verification of Compliance is hereby issued to the below named company. The test results of this report relate only to the tested sample identified in this report.

**Technical Standard: EMC DIRECTIVE 2004/108/EC
(EN55022 / EN55024)**

(Operation Environment: Information Technology Equipment)

General Information

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

Product Description

EUT Description: Switching Power Adapter
Model Number: FSP150-AAAN2; FSP150-AABN2; FSP150-ABAN2;
FSP150-AHAN2; FSP150-AHBN2; FSP150-ABBN2

Measurement Standard

EN 55022: 2010
CISPR 22: 2008 (Ed.6.0)
AS/NZS CISPR 22: 2009 with Amdt 1 (2010)
EN 61000-3-2: 2006 + A1: 2009 + A2: 2009
EN 61000-3-3: 2008
EN 55024: 2010
(IEC 61000-4-2: 2008; IEC 61000-4-3: 2006 + A1: 2007 + A2: 2010; IEC 61000-4-4: 2012;
IEC 61000-4-5: 2005; IEC 61000-4-6: 2008; IEC 61000-4-8: 2009; IEC 61000-4-11: 2004)

Measurement Facilities

Xindian Lab: Compliance Certification Services Inc.
No.163-1, Zhongsheng Rd., Xindian Dist., New Taipei City, 23151 Taiwan.
Tel: +886-2-22170894 / Fax: +886-2-22171029


This device has been shown to be in compliance with and was tested in accordance with the measurement procedures specified in the Standards & Specifications listed above and as indicated in the measurement report number: T130801D03-E

Sam Hu / Assistant Manager

Date: August 09, 2013



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

	Ref. Certif. No.
	JPTUV-052066-M1

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

CB TEST CERTIFICATE	CERTIFICAT D'ESSAI OC
----------------------------	------------------------------

<p>Product Produit</p> <p>Name and address of the applicant Nom et adresse du demandeur</p> <p>Name and address of the manufacturer Nom et adresse du fabricant</p> <p>Name and address of the factory Nom et adresse de l'usine</p> <p>Ratings and principal characteristics Valeurs nominales et caractéristiques principales</p> <p>Trademark (if any) Marque de fabrique (si elle existe)</p> <p>Type of Manufacturer's Testing Laboratories used Type de programme du laboratoire d'essais constructeur</p> <p>Model / Type Ref. Ref. de type</p> <p>Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2^{ème} page)</p> <p>A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la</p> <p>As shown in the Test Report Ref. No. which forms part of this Certificate Comme indiqué dans le Rapport d'essais numéro de référence qui constitue partie de ce Certificat</p>	<p>Switching Power Adapter</p> <p>FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan</p> <p>FSP Group Inc. No. 22, Jianguo E. Road Taoyuan 330 Taiwan</p> <p>See additional page(s)</p> <p>Input : AC 100-240V; 2A; 50-60Hz; Class I Output: 1) DC 12V; 12.5A, 2) DC 19V; 7.89A, 3) DC 24V; 6.25A</p> <p>FSP</p> <p>N/A</p> <p>1) FSP150-AHAN2, FSP150-AHBN2 2) FSP150-ABAN2, FSP150-ABBN2 3) FSP150-AAAN2, FSP150-AABN2</p> <p>For model differences, refer to the test report. Re-issue of JPTUV-052066 dated 03.07.2013, due to first modification.</p> <p>IEC 60950-1:2005+A1 National differences see test report</p> <p>11033666 002</p>
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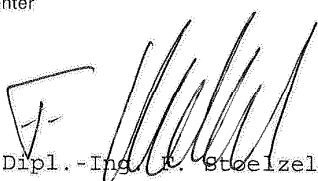
This CB Test Certificate is issued by the National Certification Body
Ce Certificat d'essai OC est établi par l'Organisme National de Certification




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

Date: 22.08.2013

Signature:


Dipl.-Ing. K. Stoeizel

10/061 CB 05.12

	Ref. Certif. No.
	JPTUV-052066-M1

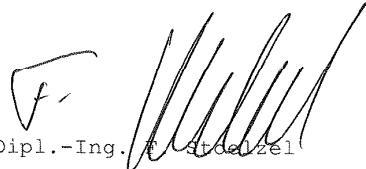
PAGE 2 OF 2

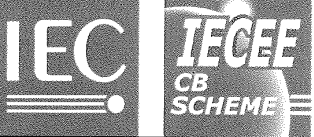
1. ShenZhen HuiLi Electronics CO., LTD
Block C,
Building 4, 6, 7, 8, 9, 10, 11,
County 73, Xin'an, Bao'an,
Shenzhen, Guangdong, P.R. China
2. Zhonghan Electronics (Shenzhen)
Co., Ltd.
Building 2,3,4,10,
JuYuan Industrial Zone,
TangWei Village, FuYong Town, BaoAn District, ShenZhen City, P.R. China
3. Wuxi SPI Technology Co., Ltd.
No. 96, Xinmei Road,
New District, Wuxi city, Jiangsu
P.R. China
4. ZHONGHAN SCIENCE &TECH CO.LTD
BLD5, JuYuan Industrial
TangWei Village, FuYong Town
BaoAn, District, ShenZhen City
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

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

Report Ref. No.: 11033666 002

Date: 22.08.2013

Signature:  Dipl.-Ing. F. Stadelzel

	Ref. Certif. No.
	JPTUV-052066

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
--	--

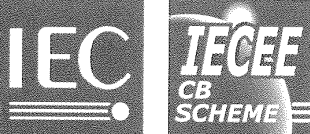
CB TEST CERTIFICATE	CERTIFICAT D'ESSAI OC
----------------------------	------------------------------

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; 2A; 50-60Hz; Class I Output: 1) DC 12V; 12.5A, 2) DC 19V; 7.89A
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	1) FSP150-AHAN2, FSP150-AHBN2 2) FSP150-ABAN2, FSP150-ABBN2
Additional information (if necessary may also be reported on page 2) Les informations complémentaires (si nécessaire, peuvent être indiqués sur la 2 ^{ème} page)	For model differences, refer to the test report.
A sample of the product was tested and found to be in conformity with Un échantillon de ce produit a été essayé et a été considéré conforme à la	IEC 60950-1:2005+A1 National differences see test report
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	11033666 001

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

	TÜV Rheinland Japan Ltd. Global Technology Assessment Center 4-25-2 Kita-Yamata, Tsuzuki-ku Yokohama 224-0021 Japan Phone + 81 45 914-3888 Fax + 81 45 914-3364 Mail: info@jpn.tuv.com Web: www.tuv.com
	Date: 03.07.2013 Signature:  Dipl.-Ing. F. Stöckel

10061 CB 05.12

	Ref. Certif. No.
	JPTUV-052066

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 2,3,4,10,
JuYuan Industrial Zone,
TangWei Village, FuYong Town, BaoAn District, ShenZhen City, 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
BLD5, JuYuan Industrial
TangWei Village, FuYong Town
BaoAn, District. ShenZhen City
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

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

Report Ref. No.: 11033666 001

Date: 03.07.2013

Signature:

Dipl.-Ing. F. Stoszel



Zertifikat Certificate



Zertifikat Nr. Certificate No.
S 50259412

Blatt Page
0004

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Längstens gültig bis Latest expiration date (day/mo/yr)
JY SFA14061832	ZTW1-CCO- 10042244 003	03.07.2018

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

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

Prüfzeichen Test Mark



www.tuv.com
© 100000000

Geprüft nach Tested acc. to
EN 60950-1:2006+A11+A1+A12
ZEK 01.4-08/11.11

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Schaltnetzteil (Switching Power Adapter)

wie Blatt (as page) 01

Ergänzung
(Addition)

Fertigungsstätte: siehe oben
(Factory) (see above)

ANLAGE (Appendix): 1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Produkt und Fertigungsstätte erfüllen § 20 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)8 05 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Ausstellungsdatum Date of Issue : 29.10.2014 (day/mo/yr)



Zertifikat Certificate



Zertifikat Nr. Certificate No.
S 50259412

Blatt Page
0003

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Längstens gültig bis Latest expiration date (day/mo/yr)
JY SPA13042760	ZTW1-CCO- 10042244 002	03.07.2018

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

Fertigungsstätte Manufacturing Plant
Zhonghan Electronics (Shenzhen)
Co., Ltd.
Building 2,3,4,10,
JuYuan Industrial Zone,
TangWei Village, PuYong Town,
BaoAn District, ShenZhen City
P.R. China

Prüfzeichen Test Mark



Geprüft nach Tested acc. to
EN 60950-1:2006+A11+A1+A12
ZEK 01.4-08/11.11

Zertifiziertes Produkt (Geräteidentifikation)
Certified Product (Product Identification)

Lizenzentgelte - Einheit
License Fee - Unit

Schaltnetzteil (Switching Power Adapter)

wie Blatt (as page) 01

Ergänzung für Bezeichnung (Addition for Type Designation)	: 1) FSP150-ABAN2 (FSP)	
	2) FSP150-ABBN2 (FSP)	
Bezeichnung (Type Designation)	: 1) FSP150-AAAN2 (FSP)	1
	2) FSP150-AABN2 (FSP)	1
Ausgang (Output)	: DC 24V, 6.25A	

2

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)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Ausstellungsdatum Date of Issue : 23.08.2013 (day/mo/yr)



Zertifikat Certificate



Zertifikat Nr. *Certificate No.*
S 50259412

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0002

Ihr Zeichen <i>Client Reference</i>	Unser Zeichen <i>Our Reference</i>	Längstens gültig bis <i>Latest expiration date</i> (day/mo/yr)
JY SFA12075466	ZTW1-SUT- 10042244 001	03.07.2018

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

Fertigungsstätte *Manufacturing Plant*
Zhonghan Electronics (Shenzhen)
Co., Ltd.
Building 2,3,4,10,
JuYuan Industrial Zone,
TangWei Village, FuYong Town,
BaoAn District, ShenZhen City
P.R. China

Prüfzeichen *Test Mark*



Geprüft nach *Tested acc. to*
EN 60950-1:2006+A11+A1+A12
ZEK 01.4-08/11.11

Zertifiziertes Produkt <i>(Geräteidentifikation)</i> <i>Certified Product (Product Identification)</i>	Lizenzentgelte - Einheit <i>License Fee - Unit</i>
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Schaltnetzteil *(Switching Power Adapter)*

wie Blatt (as page) 01

Ergänzung (Addition)

Bezeichnung (Type Designation)	: 1) FSP150-AHEN2 (FSP)	1
	2) FSP150-ABAN2 (FSP)	1
	FSP150-ABEN2 (FSP)	1

Ausgang (Output)	: 1) DC 12V/12.5A	
	2) DC 19V/7.89A	

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)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Ausstellungsdatum *Date of Issue* : 04.07.2013 (day/mo/yr)

Zertifizierungsstelle

Dipl.-Ing. F. Stözel

Zertifikat Certificate



Zertifikat Nr. Certificate No.
S 50259412

Blatt Page
0001

Ihr Zeichen Client Reference	Unser Zeichen Our Reference	Längstens gültig bis Latest expiration date (day/mo/yr)
JY SFA12075466	ZTW1-SUT- 10042244 001	03.07.2018

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

Fertigungsstätte Manufacturing Plant
Zhonghan Electronics (Shenzhen)
Co., Ltd.
Building 2,3,4,10,
JuYuan Industrial Zone,
TangWei Village, FuYong Town,
BaoAn District, ShenZhen City
P.R. China

Prüfzeichen Test Mark



Geprüft nach Tested acc. to
EN 60950-1:2006+A11+A1+A12
ZEK 01.4-08/11.11

Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)	Lizenzentgelte - Einheit License Fee - Unit
---	--

Schaltnetzteil (Switching Power Adapter)

Bezeichnung (Type Designation)	: FSP150-AHAN2 (FSP)	10
Nennspannung (Rated Voltage)	: AC 100-240V, 50-60Hz	
Nennstrom (Rated Current)	: 2A	
Ausgang (Output)	: DC 12V/12.5A	
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)8 06 - 13 71 e-mail: cert-validity@de.tuv.com
Fax: (+49/221)8 06 - 39 35 http://www.tuv.com/safety

Ausstellungsdatum Date of Issue : 04.07.2013 (day/mo/yr)

Zertifizierungsstelle

Dipl.-Ing. F. Staelzel

CERTIFICATE OF COMPLIANCE

Certificate Number 20130827-E190414
Report Reference E190414-A559-UL
Issue Date 2013-August-27

Issued to: FSP GROUP INC
22 JIANGUO E RD
TAOYUAN CITY, 330 TAIWAN


This is to certify that representative samples of Power Supplies for Information Technology Equipment Including Electrical Business Equipment Switching Power Adapter.
Models: (1) FSP150-AHAN2, FSP150-AHBN2
(2) FSP150-ABAN2, FSP150-ABBN2
(3) FSP150-AAAN2, FSP150-AABN2

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

Standard(s) for Safety: UL 60950-1, (Information Technology Equipment - Safety - Part 1: General Requirements)
CSA C22.2 No. 60950-1-07, (Information Technology Equipment - Safety - Part 1: General Requirements)

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

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers;  the word "LISTED"; a control number (may be aphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
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 www.ul.com/contact



EPS BASIC MODEL CERTIFICATION REPORT

EPS BASIC MODEL CERTIFICATION REPORT

Basic Model: FSP150-AHAN2

Manufacturer: FSP GROUP INC.

Private Labeler (if applicable): _____

Name: MIKE LIN

Title: SAFETY MANAGER

Address: No. 22, Jianguo East Road, Taoyuan City 330, Taiwan

Telephone Number: +886-3-3759888

Facsimile Number: +886-3-3756966

Date: 2013/04/30

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: FSP150-AHAN2

Average Active-Mode Efficiency (%): 89.15

No-Load Mode Power Consumption (W): 0.16

Nameplate Output Power (W): 150W

Nameplate Output Current (if missing from nameplate) (A): 12.5A

For Discontinued Models:

Provide manufacturer's model number(s):



中国国家强制性产品认证证书

证书编号: 2013010907635893

委托人名称、地址

全汉企业股份有限公司
台湾桃园市建国东路22号

生产者(制造商)名称、地址

全汉企业股份有限公司
台湾桃园市建国东路22号

生产企业名称、地址

仲汉电子(深圳)有限公司
深圳市宝安区福永街道塘尾村聚源工业区第2, 3, 4, 10栋

产品名称和系列、规格、型号

电源适配器

1) FSP150-AHAN2, FSP150-AHBN2; 2) FSP150-ABAN2, FSP150-ABBN2 输入: 100-240Vac, 50-60Hz, 2A; 输出: 1) 12Vdc, 12.5A; 2) 19Vdc, 7.89A (产品销售时不带电线组件, 仅适用于海拔5000米及以下)

产品标准和技术要求

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

上述产品符合强制性产品认证实施规则
CNCA-01C-020: 2010的要求, 特发此证。

发证日期: 2013年08月14日

有效期至: 2018年08月14日

证书有效期内本证书的有效性依据发证机构的定期监督获得保持。

本证书的相关信息可通过国家认监委网站www.cnca.gov.cn查询



主任: 

中国质量认证中心

中国·北京·南四环西路188号9区 100070

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



Q 0747075



CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

No. : 2013010907635893

NAME AND ADDRESS OF THE APPLICANT

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

NAME AND ADDRESS OF THE MANUFACTURER

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

NAME AND ADDRESS OF THE FACTORY

Zhonghan Electronics (Shenzhen) Co., Ltd.
Building 2, 3, 4, 10, JuYuan Industrial Zone, TangWei Village, FuYong Town,
BaoAn District, ShenZhen City, China

NAME, MODEL AND SPECIFICATION

Switching Power adapter

1) FSP150-AHAN2, FSP150-AHBN2; 2) FSP150-ABAN2, FSP150-ABBN2 IP:100-240Vac, 50-60Hz, 2A; O/P: 1)12Vdc, 12.5A; 2)19Vdc, 7.89A (Sale without cord set, Altitude up to 5000m)

THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS

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

This is to certify that the above mentioned products have met the requirements of implementation rules for compulsory certification (REF NO. CNCA-01C-020:2010).

Date of issue: Aug. 14, 2013 Date of expiry: Aug. 14, 2018

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

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



President:

Wang Kejiao

CHINA QUALITY CERTIFICATION CENTRE

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

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



Q 0747075



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 Adaptor
Model Number: FSP150-AHAN2, FSP150-AHBN2, FSP150-AAAN2
FSP150-ABAN2, FSP150-ABBN2, FSP150-AABN2

Complies with the following:

Standards	Directives
IEC 60950-1:2005+A1	2006/95/EC(Low Voltage Directive)
EN 60950-1: 2006+A11+A1+A12	
EN 55022:2010	2004/108/EC(EMC Directive)
EN 55024:2010	
IEC 61000-3-2:2005+ A1+A2	
EN 61000-3-2:2006+ A1+A2	
IEC 61000-3-3:2008	
EN 61000-3-3:2008	
(EC) No 278/2009	Commission Regulation
EN50563:2011	2009/125/EC (ErP Directive)
EN 50581: 2012	2011/65/EU: The use of certain hazardous substances in electrical and electronic equipment Directive 2011/65/EU (Recasts and supersedes 2002/95/EC)

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

Date: 9. 18. 2013
Place: Taoyuan, Taiwan



中国强制性产品认证印刷 / 模压标志批准书
Permission of Printing/Impressing China Compulsory Product Certification Mark

No. FZ2014040102

兹批准本通知书申请人在由下列生产厂为其生产的产品铭牌上使用印刷方式加施强制性产品标志。

WE HEREBY AUTHORIZE THE APPLICANT IN THE FACTORY TO ADOPT PRINTED USING COMPULSORY CERTIFICATION MARK. THE APPROVED DESIGN OF MARKS MUST BE SHOWN ON THE NAMEPLATE OF PRODUCTS.

申请人: 全汉企业股份有限公司

APPLICANT:

制造商: 全汉企业股份有限公司

MANUFACTURER:

生产厂: 仲汉电子(深圳)有限公司

FACTORY:

证书号: 2013010907635893

CERTIFICATE NO:

批准图案(见附页)

APPROVED PATTERN (SEE ATTACHMENT)

有效日期从 2014年 8月 16日 至 2015年 8月 15日

VALID DATE FROM Aug. 16, 2014 TO Aug. 15, 2015

发证日期: 2014年 08月 16日

APPLICATION DATE: Aug. 16, 2014

中国国家认证认可监督管理委员会
Certification and Accreditation Administration
of the People's Republic of China

地址: 中国 北京 朝阳区朝阳门外大街甲10号中认大厦5层

邮编: 100020

ADD.: 5F A10, Chaowai Street, Chaoyang District, Beijing, P. R. China POSTCODE: 100020

电话 TEL: +86-10-65991234 传真 FAX: +86-10-65994099/65994173/65991234 <http://www.cnca.gov.cn>

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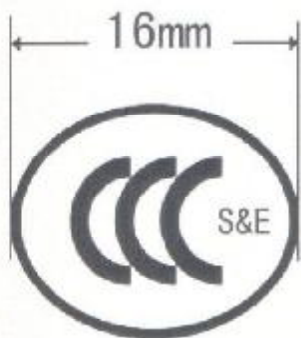
中国强制性产品认证印刷 / 模压标志批准书

Permission of Printing/Impressing China Compulsory Product Certification Mark

附页 NoFZ2014040102

此批准书批准范围仅为CCC认证证书涵盖内容, 批复图案中无关CCC证书的内容不在批准范围内, 请认证企业遵照相关法律法规执行。《中国强制性产品认证印刷/模压标志批准书》有效期内, 如所涉及CCC认证证书失效, 则批准书同时失效。

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CCC 标志颜色: 白色



地址: 中国 北京 朝阳区朝阳门外大街甲 10 号中认大厦 5 层
 ADD.: 5F A10, Chaowai Street, Chaoyang District, Beijing, P. R. China
 电话 TEL: +86-10-65991234 传真 FAX: +86-10-65994099/65994173/65991234 <http://www.cnca.gov.cn>

邮编: 100020

POSTCODE: 100020



全漢企業股份有限公司
FSP TECHNOLOGY INC.

台灣桃園市龍潭區東路22號 統一編號：34255005
No. 22, Jiaqun East Road, Taoyuan City, Taiwan R.O.C.
TEL: +886-3-375-0888 Website: www.FSP-group.com
FAX: +886-3-375-0396 Email: sales@fsp-group.com.tw

FSP Green Product Declaration

We hereby guarantee that our power supply (part number listed below) are in compliance with RoHS directive "(2002/95/EC)", WEEE directive (2002/96/EC)* and other national and international statutory requirements.

We hereby conform and report the material and amount of "Environment of hazardous substance" in the concern product and part as listed below:

Item	Substance/Material	Contain ppm
1	Cadmium and compounds	<100ppm
2	Lead and compounds	<1000ppm The RoHS Exemption *:Not required
3	Mercury and compounds	<1000ppm
4	Chrome(VI) and compounds	<1000ppm
5	Polybrominated biphenyls (PBBs)	<1000ppm
6	Polybrominated diphenylethers (PBDEs)	<1000ppm
and		

Remark:

1. The RoHS Exemption*: such as Leaded glass used in electronic components ; Lead (Pb) in high melting temperature type solder; Lead (Pb) in electronic ceramic parts and Lead (Pb) in Steel Alloys (0.35% or 3500 PPM), Aluminum Alloys (0.4% or 4000PPM) or Copper Alloys (incl. brasses, bronzes) (1.0% or 10,000 PPM). 2. N.D=Not detected.

AUTHORIZED SIGNATURE:

FSP Technology Inc.

Date: 2014/12/23

