

CB TEST CERTIFICATE

Ref. No. NO 16538

Factory Sites:

Fortron/Source(China) Corp.
Building #25, Zone 37, Baoan District
Shenzhen, Guangdong, P.R. China

Wellex Technology Co., Ltd.
Zhenlian Building, County 74, Baoan
Shenzhen Guangdong P.R. China

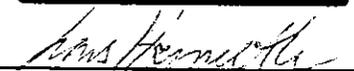
Shenzhen Huli Electronics Co., Ltd.
Blk. C. Bldg, 7, County 73, Baoan
Shenzhen Guangdong, P.R. China

Fortron/Source(China) Corp.
F2, the 2nd industrial Area of Mabu
Xixiang, Baoan, Shenzhen, P.R. China

Zhonghan Electronics (Shenzhen) Co., Ltd.
Juyuan Industrial Zone, Tangwei Village, Fuyong Town,
Baoan District, Shenzhen City, China

Oslo, 07 August 2002

Issued by



Lars Hjerpseth
Principal Engineer

IEC SYSTEM FOR CONFORMITY TESTING TO
STANDARDS FOR SAFETY OF ELECTRICAL
EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE AUX
NORMES DE SECURITE DE L'EQUIPMENT
ELECTRIQUE (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICATE D'ESSAI OC

Product
Produit

Name and address of the applicant
Nom et adresse du demandeur

Name and address of the manufacturer
Nom et adresse du fabricant

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

Rating and principal characteristics
Valeurs nominales et caractéristiques principales

Trade mark (if any)
Marque de fabrique (si elle existe)

Model/type Ref.
Ref. de type

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

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*

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 un partie de ce certificat

Power Supply for building-in

FSP Group Inc.
No. 22, Jianguo E. Rd., Taoyuan City 330
TAIWAN R.O.C.

FSP Group Inc.
No. 22, Jianguo E. Rd., Taoyuan City 330
TAIWAN R.O.C.

See page 2

10A 100-240V 50-60Hz. Cl. I, DC output: 27.0A/ +3.3V, 29.0A/
+5V, 36.0A/ +12.0V I/O, 2.0A/ +5Vsb, 0.3A/ -5V, (optional), 0.8A/ -
12V Max. output power: 550W (max. ambient 30° C) (+3.3V &
+5V=150W max.) (+3.3V & +5V & +12V=528W max.) or max.
output power: 500W (max. ambient 50° C) (+3.3V & +5V=150W
max.) (+3.3V & +5V & +12V=478W max.)

FSP

FSP550-60PLG..

The dots in model name can be A to Z, 0 to 9 or blank, for
marketing purpose only.

IEC 60950 2nd Edition, 1991 + Amd. 1, 1992 + Amd. 2, 1993 +
Amd. 3, 1995 + Amd. 4, 1996.

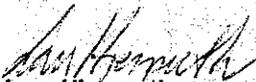
200230270

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



P.O. BOX 73, BLINDERN
N-0314 OSLO, NORWAY

Date 07 August 2002

Signature 
Lars Hjerpseth
Principal Engineer

CB TEST CERTIFICATE

Ref. No. NO 16539

Factory Sites:

Fortron/Source(China) Corp.
Building #25, Zone 37, Baoan District
Shenzhen, Guangdong, P.R. China

Wellex Technology Co., Ltd.
Zhenlian Building, County 74, Baoan
Shenzhen Guangdong P.R. China

Shenzhen Huili Electronics Co., Ltd.
Blk. C. Bldg, 7, County 73, Baoan
Shenzhen Guangdong, P.R. China

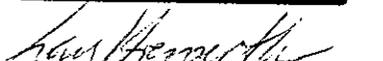
Fortron/Source(China) Corp.
F2, the 2nd industrial Area of Mabu
Xixiang, Baoan, Shenzhen, P.R. China

Zhonghan Electronics (Shenzhen) Co., Ltd.
Juyuan Industrial Zone, Tangwei Village, Fuyong Town,
Baoan District, Shenzhen City, China

Oslo, 07 August 2002

Issued by




Lars Hjerpseth
Principal Engineer

CB TEST CERTIFICATE

Ref. No. NO 16540

Factory Sites:

Fortron/Source(China) Corp.
Building #25, Zone 37, Baoan District
Shenzhen, Guangdong, P.R. China

Wellex Technology Co., Ltd.
Zhenlian Building, County 74, Baoan
Shenzhen Guangdong P.R. China

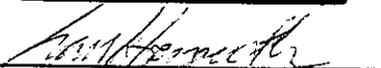
Shenzhen Huili Electronics Co., Ltd.
Blk. C. Bldg, 7, County 73, Baoan
Shenzhen Guangdong, P.R. China

Fortron/Source(China) Corp.
F2, the 2nd industrial Area of Mabu
Xixiang, Baoan, Shenzhen, P.R. China

Zhonghan Electronics (Shenzhen) Co., Ltd.
Juyuan Industrial Zone, Tangwei Village, Fuyong Town,
Baoan District, Shenzhen City, China

Oslo, 07 August 2002

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Lars Hjerpseth
Principal Engineer

IEC SYSTEM FOR CONFORMITY TESTING TO
STANDARDS FOR SAFETY OF ELECTRICAL
EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE AUX
NORMES DE SECURITE DE L'EQUIPMENT
ELECTRIQUE (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICATE D'ESSAI OC

Product

Produit

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Nom et adresse du demandeur

Name and address of the manufacturer

Nom et adresse du fabricant

Name and address of the factory

Nom et adresse de l'usine

Rating and principal characteristics

Valeurs nominales et caractéristiques principales

Trade mark (if any)

Marque de fabrique (si elle existe)

Model/type Ref.

Ref. de type

Additional information (if necessary)

Information complémentaire (si nécessaire)

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which forms part of this certificate

*comme indiqué dans le Rapport d'essais numéro
de référence*

qui constitue un partie de ce certificat

Power Supply for building-in

FSP Group Inc.

No. 22, Jianguo E. Rd., Taoyuan City 330

TAIWAN R.O.C.

FSP Group Inc.

No. 22, Jianguo E. Rd., Taoyuan City 330

TAIWAN R.O.C.

See page 2

10A 100-240V 50-60Hz. Cl. I, DC output: 27.0A/ +3.3V, 29.0A/
+5V, 36.0A/ +12.0V I/O, 2.0A/ +5Vsb, 0.3A/ -5V, (optional), 0.8A/ -
12V Max. output power: 550W (max. ambient 30° C) (+3.3V &
+5V=150W max.) (+3.3V & +5V & +12V=528W max.) or max.
output power: 500W (max. ambient 50° C) (+3.3V & +5V=150W
max.) (+3.3V & +5V & +12V=478W max.)

BRAND NAME: SPI

FSP550-60PLG..

The dots in model name can be A to Z, 0 to 9 or blank, for
marketing purpose only.

IEC 60950 2nd Edition, 1991 + Amd. 1, 1992 + Amd. 2, 1993 +
Amd. 3, 1995 + Amd. 4, 1996.

200230270

This CB Test Certificate is issued by the National Certification Body

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P.O. BOX 73, BLINDERN
N-0314 OSLO, NORWAY

Date

07 August 2002

Signature

Lars Hjerpseth
Principal Engineer

IEC SYSTEM FOR CONFORMITY TESTING TO
STANDARDS FOR SAFETY OF ELECTRICAL
EQUIPMENT (IECEE)
CB SCHEME

SYSTEME CEI D'ESSAIS DE CONFORMITE AUX
NORMES DE SECURITE DE L'EQUIPMENT
ELECTRIQUE (IECEE)
METHODE OC

CB TEST CERTIFICATE CERTIFICATE D'ESSAI OC

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Valeurs nominales et caractéristiques principales

Trade mark (if any)

Marque de fabrique (si elle existe)

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Power Supply for building-in

FSP Group Inc.

No. 22, Jianguo E. Rd., Taoyuan City 330

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See page 2

10A 100-240V 50-60Hz. Cl. I, DC output: 27.0A/ +3.3V, 29.0A/
+5V, 36.0A/ +12.0V I/O, 2.0A/ +5Vsb, 0.3A/ -5V, (optional), 0.8A/ -
12V Max. output power: 550W (max. ambient 30° C) (+3.3V &
+5V=150W max.) (+3.3V & +5V & +12V=528W max.) or max.
output power: 500W (max. ambient 50° C) (+3.3V & +5V=150W
max.) (+3.3V & +5V & +12V=478W max.)

Brand name: AOpen

FSP550-60PLG..

The dots in model name can be A to Z, 0 to 9 or blank, for
marketing purpose only.

IEC 60950 2nd Edition, 1991 + Amd. 1, 1992 + Amd. 2, 1993 +
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P.O. BOX 73; BLINDERN
N-0314 OSLO, NORWAY

Date

07 August 2002

Signature

Lars Hjerpseth
Principal Engineer

CB TEST CERTIFICATE

Ref. No. NO 16541

Factory Sites:

Fortron/Source(China) Corp.
Building #25, Zone 37, Baoan District
Shenzhen, Guangdong, P.R. China

Wellex Technology Co., Ltd.
Zhenlian Building, County 74, Baoan
Shenzhen Guangdong P.R. China

Shenzhen Huili Electronics Co., Ltd.
Blk. C. Bldg, 7, County 73, Baoan
Shenzhen Guangdong, P.R. China

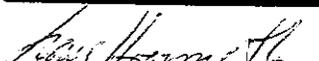
Fortron/Source(China) Corp.
F2, the 2nd industrial Area of Mabu
Xixiang, Baoan, Shenzhen, P.R. China

Zhonghan Electronics (Shenzhen) Co., Ltd.
Juyuan Industrial Zone, Tangwei Village, Fuyong Town,
Baoan District, Shenzhen City, China

Oslo, 07 August 2002

Issued by




Lars Hjerpseth
Principal Engineer



中国国家强制性产品认证证书

CERTIFICATE FOR CHINA COMPULSORY PRODUCT CERTIFICATION

证书编号: 2004020907000250

申请人名称及所在地:

深圳辉力电子有限公司
广东省深圳市宝安区73区c7厂房

商标: FSP,iEi

制造商: 全汉企业股份有限公司

生产企业名称及所在地:

深圳辉力电子有限公司(B190080)
广东省深圳市宝安区73区C7厂房

产品名称和系列、规格、型号: 开关电源
FSP550-60PLN, ACE-850AP 100-240V ~ 50-60Hz 10A

产品标准和技术要求:

GB4943-2001,GB9254-1998,GB17625.1-2003

上述产品符合强制性产品认证实施要求,特发此证。

证书的生效日期: 二〇〇四年五月三十一日

《证书》的有效性靠定期的监督获得支持

中心主任:



中国电磁兼容认证中心



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

Supplier:

Name: FSP Group Inc.

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

Manufacturer:

Name: SHENZHEN HUILI ELECTRONICS CO., LTD.

Address: BLK C, BLDG7, COUNTY 73, BAO'AN
SHENZHEN, GUANGDONG, CHINA

Name: WELLEX TECHNOLOGY CO., LTD.

Address: ZHENLIAN BUILDING, COUNTY 74, BAOAN
SHENZHEN, GUANGDONG, P.R. CHINA

Name: FORTRON/SOURCE (CHINA) CORP.

Address: F2, THE 2ND INDUSTRIAL AREA OF MABU
XIXIANG, BAOAN, SHENZHEN, P.R. CHINA

Declares that :

Product Name: Switching Power Supply

Model Number: ACE-850APXX (X=0-9, A-Z or blank)

Complies with the following:

Standards

EN60950: 1992: A1+A2+A3+A4 +A11

EN 55022: 1998, Class B

EN61000-3-2: 1995 + A1: 1998 +
A2: 1998, Class A

EN61000-3-3: 1995

EN 55024: 1998

IEC61000-4-2: 1995

IEC61000-4-4: 1995

IEC61000-4-6: 1996

IEC61000-4-11: 1994

Directives

73/23/EEC: CE 94 + 93/68/EEC

(Low Voltage Directive)

89/336/EEC + 92/31/EEC

(EMC Directive)

IEC61000-4-3: 1995

IEC61000-4-5: 1995

IEC61000-4-8: 1993

Signature: Allen Cheng

Print Name: Allen Cheng

Title: President

Date: 01/07/2003

Place: Taoyuan, Taiwan



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 (continuation)

Standards:	Tested By:	Test Report No.:
EN 60950: 1992: A1+A2+A3+A4 +A11	LVD: Nemko Oslo	2000 43181
EN 55022: 1998, Class B	EMC: ADVANCE TECHNOLOGY CORP.	CE90011603
EN61000-3-2: 1995 + A1: 1998 + A2: 1998, Class A	ADVANCE TECHNOLOGY CORP.	CE90011603
EN 61000-3-3: 1995	ADVANCE TECHNOLOGY CORP.	CE90011603
EN 55024:1998		
IEC 61000-4-2:1995	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-3:1995	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-4:1995	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-5:1995	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-6:1996	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-8:1993	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-11:1994	ADVANCE TECHNOLOGY CORP.	CE90011603

Signature: 
Print Name: Allen Cheng
Title: President

Date: 2/10/2003
Place: Taoyuan, Taiwan



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

Supplier:

Name: FSP Group Inc.
Address: No. 22, Jianguo E. Rd., Taoyuan City, Taiwan, R.O.C.

Manufacturer:

Name: SHENZHEN HUILI ELECTRONICS CO., LTD.
Address: BLK C, BLDG7, COUNTY 73, BAO'AN
SHENZHEN, GUANGDONG, CHINA
Name: FORTRON/SOURCE (CHINA) CORP.
Address: BUILDING #25, ZONE 37, BAOAN DISTRICT
SHENZHEN, GUANGDONG, P.R. CHINA
Name: WELLEX TECHNOLOGY CO., LTD.
Address: ZHENLIAN BUILDING, COUNTY 74, BAOAN
SHENZHEN, GUANGDONG, P.R. CHINA
Name: FORTRON/SOURCE (CHINA) CORP.
Address: F2, THE 2ND INDUSTRIAL AREA OF MABU
XIXIANG, BAOAN, SHENZHEN, P.R. CHINA

Declares that :

Product Name: Switching Power Supply
Model Number: FSP550-60PLNXX / FSP550-60PLGXX
(X=0-9, A-Z or blank)

Complies with the following:

Standards	Directives
EN60950: 1992: A1+A2+A3+A4 +A11	73/23/EEC: CE 94 + 93/68/EEC
EN 55022: 1998, Class B	(Low Voltage Directive)
EN61000-3-2: 1995 + A1: 1998 + A2: 1998, Class A	89/336/EEC + 92/31/EEC
EN61000-3-3: 1995	(EMC Directive)
EN 55024: 1998	
IEC61000-4-2: 1995	IEC61000-4-3: 1995
IEC61000-4-4: 1995	IEC61000-4-5: 1995
IEC61000-4-6: 1996	IEC61000-4-8: 1993
IEC61000-4-11: 1994	

Signature: 

Print Name: Allen Cheng

Title: President

Date: 9.5.2008

Place: Taoyuan, Taiwan



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 (continuation)

Standards:	Tested By:	Test Report No.:
EN 60950: 1992: A1+A2+A3+A4 +A11	LVD: Nemko Oslo	2000 43181
EN 55022: 1998, Class B	EMC: ADVANCE TECHNOLOGY CORP.	CE90011603
EN61000-3-2: 1995 + A1: 1998 + A2: 1998, Class A	ADVANCE TECHNOLOGY CORP.	CE90011603
EN 61000-3-3: 1995	ADVANCE TECHNOLOGY CORP.	CE90011603
EN 55024:1998		
IEC 61000-4-2:1995	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-3:1995	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-4:1995	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-5:1995	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-6:1996	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-8:1993	ADVANCE TECHNOLOGY CORP.	CE90011603
IEC 61000-4-11:1994	ADVANCE TECHNOLOGY CORP.	CE90011603

Signature: 
Print Name: Allen Cheng
Title: President

Date: 9 5 2002
Place: Taoyuan, Taiwan



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 208977

Project: 1396940M

Date Issued: February 24, 2003

Issued to: ICP Electronics Inc.
3F, No. 22, Chung-Hsing Rd.,
Shi-Chi City, Taipei Hsien,
221 Taiwan

The products listed below are eligible to bear the CSA Mark shown, with adjacent indicator "C" and "US".



Authorized by: Fred Mark
Director, Far East Operation

PRODUCTS

CLASS 5311 03 - COMPONENT TYPE POWER SUPPLIES - For Canadian Certification
CLASS 5311 83 - COMPONENT TYPE POWER SUPPLIES - For U.S. Certification

- Model ACE-832A, output classification level 5, rated +5/+12/+3.3/-12/+5V sb V dc; 30/11/16/0.3/0.8/2 A (+5V and +3.3V total 150 W) or 30/11/16/0.3/0.8/3A (+5V and +3.3V total 145W max) (total output 300W max).
- Component type power supplies intended for use with Information Technology and Business Equipment, where the suitability of the combination is to be determined by CSA International. Cord connected. input rated 100-240 V ac, 60-50 Hz.

<u>Model</u>	<u>Level</u>	<u>Input Current</u>	<u>AC Output Rating</u>	<u>Output</u>
ACE-832AP	3	10-5A	115/230 V ac, 4/2A	+5/+12/+3.3/-5/-1/2/+5V sb V dc;30/15/28/0.3/0.8/2A (+5V and +3.3V = 150 W (total output power 300W max).
ACE-832AP	3	10-5A	115/230 V ac, 4/2A	+5/+12/+3.3/-5/-1/2/+5V sb V dc;30/15/28/0.3/0.8/2A (+5V and +3.3V = 180 W (total output power 300W max).

The 'C' and 'US' indicators adjacent to the CSA Mark signify that the product has been evaluated to the applicable CSA and ANSI/UL Standards, for use in Canada and the U.S., respectively. This 'US' indicator includes products eligible to bear the 'NRTL' indicator. NRTL, i.e. National Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



CSA INTERNATIONAL

Certificate of Compliance**Certificate:** 208977**Project:** 1396940M**Date Issued:** February 24, 2003

<u>Model</u>	<u>Level</u>	<u>Input Current</u>	<u>AC Output Rating</u>	<u>Output</u>
ACE-832A 12 V	3	10-5A	115/230 V ac, 4/2A	+5/+12/+3.3/-5/-1/2/+5V sb V dc;30/15/28/0.3/0.8/2A (+5V and +3.3V = 180 W (total output power 300W max).
ACE-832AP-S 12 V	3	10-5A	115/230 V ac	+5/+12/+3.3/-5/-1/2/+5V sb V dc;30/15/28/0.3/0.8/2A (+5V and +3.3V = 180 W (total output power 300W max).

- Component Power Supply:

<u>Model No</u>	<u>Input Rating</u>	<u>Output Rating</u>
ACE-916AP	100-240 V, 4 A, 60-50 Hz	Level 3, rated +5V/16A, +12V/6A, +5Vsb/2A, +12V/0.8A, +5V & +12V = 145 W Total 150 W max, OR, +5V/16A, +12V/6A +12V/0.3A, Total 150 max.

- Model ACE-850APXX, cord-connected, input rated 100-240 V ac (autoranging), 50-60 Hz, 10 A; DC output classification level 6 (3/3/5/5/3/3/3), rated +3.3 V, 27.0 A; +5 V, 29.0 A; +12 V I/O, 18.0 A; +12 V CPU, 18.0 A; +5 V sb, 2.0 A; -5 V (optional), 0.3 A; -12 V, 0.8 A.
(Condition 1: Max. ambient 30°C -- Max. 550 W for total power, and max. 150 W for +3.3 and +5 V dc output combination, and Max. 528 W for +3.3, +5 and +12 V dc output combination).
(Condition 2: Max. ambient 50°C -- Max. 500 W for total power, and max. 150 W for +3.3 and +5 V dc output combination, and Max. 478 W for +3.3, +5 and +12 V dc output combination).



CSA INTERNATIONAL

FIELD AUTHORIZATION LETTER

FAL Number: 188668-1355375

Date: August 30, 2002

Client: Mr. Mike Lin
FSP Group Inc.
No. 22, Jianguo E. Rd.
Taoyuan City 330
Taiwan

Subject: Update to Report 188668-1338305 to Include Models FSP550-60PLNXX and FSP550-60PLGXX

Factories:

F1 (Contact: 4552044) Fortron/Source (China) Corp.
Bldg 25 Zone 37, Baoan County, Shenzhen, Guangdong 518000, China
F2 (Contact: 4552045) Fortron/Source (China) Corp.
2nd Industrial Park Mabu, Xi Xiang, Baoan, Shenzhen, Guangdong 518104, China
F3 (Contact: 4557320) Shenzhen Huili Electronic Co., Ltd.
Bldg 7 Blk C, County 73, Bao An, Shenzhen, Guangdong 518100, China
F4 (Contact: 4568437) Wellex Technology Company Limited
Zhenlan Bldg County 74, Baoan, Shenzhen, Guangdong 518100, China
F5 (Contact: 4665894) ZhongHan Electronics (Shenzhen) Co. Ltd.
JuYuan Industrial Zone, TangWei Village FuYong Town, BaoAn District, Shenzhen,
Guangdong, China

Dear Mr. Lin,

This is to confirm that the evaluation of the subject equipment has been successfully completed. You are therefore authorized, on an interim basis, to apply the CSA marking shown below to subject products that comply with the applicable certification requirement.

This authorization is valid for 30 days from the date of issue, and will be replaced within that period by a formal Certification of Compliance issued from a CSA office.



CSA INTERNATIONAL

FIELD AUTHORIZATION LETTER

FAL No. 188668-1355375 Continue Sheet(s)

Certification Requirements:

CAN/CSA-C22.2 No. 950-95 - Safety of Information Technology Equipment, Including Electrical Business Equipment
UL 1950, Third Edition - Safety of Information Technology Equipment, Including Electrical Business Equipment

Authorized Marking(s)



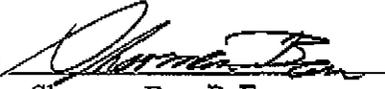
The C-US indicator and/or the relevant standards appear adjacent to the CSA Mark

The "C" and "US" indicator adjacent to the CSA Mark signifies that the product has been evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canada. This includes products eligible to bear the NRTL indicator. NRTL, i.e. Nationally Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards

Required Factory Tests: See Bi-Nat CSA 950/UL 1950 Design Manual (Ver. 1.6) for details of test required.

- [X] Production-line Dielectric Voltage-Withstand Test: Cl 5.3.2.
 - [X] For Grounded Units (Class I or Class 2) rated above 130 V and up to 250 V;
- [X] Transformers:
 - [X] For Safety Isolating Transformers in Grounded or Double Insulated Units rated more than 130 V and up to 250 V.
- [X] Production-Line Earthing-Continuity Test Ref. Cl 7.2 of ANSI/UL 1950(1993)

Issued By:


Sherman Bau, P. Eng.
CSA International - Toronto

cc: Fred Mark, Director, Far East Operation
CSA Vancouver, Engineering
CTS Taiwan, Engineering
CCIC, Inspection (China)



CSA INTERNATIONAL

Standards
Development

QMI
Management Systems Registration

Certification
and Testing

Contract No:188668 (LR 111897)
Project No: 1355375
Date: 8 October 2002

Mr.Mike Lin
FSP Group Inc.
No. 22, Jianguo E. Rd.,
Taoyuan City, 330
Taiwan

Subject: **Update to Report 1338305 to Include Models FSP550-60PLNXX and FSP550-60PLGXX**

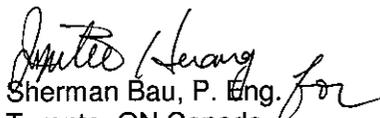
Dear Mr. Lin,

We are pleased to inform you that the subject alternative construction meets the applicable CSA and U.L. requirements. This equipment is therefore eligible to bear the CSA Mark with C-US indicator , in accordance with instructions contained in the Certification Report.

A copy of our updated Certification Record and the documents listed below are enclosed for your files. Please forward a copy of the Certification Report to each factory producing the products described in the above reference report.

In due course you will receive a statement of your account as it concerns this application.

Yours truly,


Sherman Bau, P. Eng.
Toronto, ON Canada

Encl. Updated Certificate of Compliance
Updated Certification Report
Updated Certification Record
Updated Profile of Certification Reports

cc: CSA Vancouver; Engineering
CTS Taiwan; Engineering
CCIC; Inspection

We Answer With Solutions

CTS/CSA Network Partner & ATL

5F-3, 26 Wu-Chuan 2nd. Rd., Hsin-Chuang, Taipei Hsien, Taiwan

台北縣新莊市五權二路 26 號 5 樓之 3 TEL:(886)2-2299-5023 FAX:(886)2-2299-5022



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1338305

Master Contract: 188668 (LR 111897)

Project: 1355375

Date Issued: September 5, 2002

Issued to: **FSP Group Inc.**
No. 22, Jianguo E. Rd.,
Taoyuan City, 330
Taiwan

The products listed below are eligible to bear the CSA Mark shown, with adjacent indicator "C" and "US".



Issued by: Sherman Bau, P. Eng.

Authorized by: 
Fred Mark
Director, Far East Operation

PRODUCTS

CLASS 5311 03 - COMPONENT TYPE POWER SUPPLIES - For Canadian Certification

CLASS 5311 83 - COMPONENT TYPE POWER SUPPLIES - For US Certification

Component type power supplies intended for use with Information Technology and Business Equipment, where the suitability of the combination is to be determined by the CSA International.

PART A: Model FSP460-60PFNXX, cord-connected, input rated 100-240 V ac (autoranging), 50-60 Hz, 10 A; DC output classification level 3, rated +3.3 V, 27.0 A; +5 V, 29.0 A; +12 V I/O, 15.0 A; +12 V CPU, 16.5 A; +5 Vsb, 2.0 A; -5 V (optional), 0.3 A; -12 V, 0.8 A. (Max. 460 W for total power; and Max. 200 W for +3.3 and +5 V dc output combination). Provided with an optional AC output receptacle, output rated 100-240 V ac, 2.0 A.

PART B: Model FSP550-60PLNXX, cord-connected, input rated 100-240 V ac (autoranging), 50-60 Hz, 10 A; DC output classification level 6 (3/3/5/5/3/3/3), rated +3.3 V, 27.0 A; +5 V, 29.0 A; +12 V I/O, 18.0 A; +12 V CPU, 18.0 A; +5 Vsb, 2.0 A; -5 V (optional), 0.3 A; -12 V, 0.8 A.

(Condition 1: Max. ambient 30°C -- Max. 550 W for total power, and Max. 150 W for +3.3 and +5 V dc output combination, and Max. 528 W for +3.3, +5 and +12 V dc output combination).

(Condition 2: Max. ambient 50°C -- Max. 500 W for total power, and Max. 150 W for +3.3 and +5 V dc output combination, and Max. 478 W for +3.3, +5 and +12 V dc output combination).

The "C" and "US" indicator adjacent to the CSA Mark signifies that the product has been evaluated to the applicable ANSI/UL and CSA Standards, for use in the U.S. and Canada. This includes products eligible to bear the NRTL indicator. NRTL, i.e. Nationally Recognized Testing Laboratory, is a designation granted by the U.S. Occupational Safety and Health Administration (OSHA) to laboratories which have been recognized to perform certification to U.S. Standards.



CSA INTERNATIONAL

Certificate of Compliance

Certificate: 1338305

Master Contract: 188668 (LR 111897)

Project: 1355375

Date Issued: September 5, 2002

PART C: Model FSP550-60PLGXX, cord-connected, input rated 100-240 V ac (autoranging), 50-60 Hz, 10 A; DC output classification level 6 (3/3/5/3/3/3), rated +3.3 V, 27.0 A; +5 V, 29.0 A; +12 V I/O, 36.0 A; +5 Vsb, 2.0 A; -5 V (optional), 0.3 A; -12 V, 0.8 A.

(Condition 1: Max. ambient 30°C -- Max. 550 W for total power, and Max. 150 W for +3.3 and +5 V dc output combination, and Max. 528 W for +3.3, +5 and +12 V dc output combination).

(Condition 2: Max. ambient 50°C -- Max. 500 W for total power, and Max. 150 W for +3.3 and +5 V dc output combination, and Max. 478 W for +3.3, +5 and +12 V dc output combination).

Note: The "X" in the model designations may be any alphanumeric character or blank denoting minor mechanical options, system configuration options and/or safety extra low voltage secondary circuit options.

APPLICABLE REQUIREMENTS

- | | | |
|-------------------------|---|---|
| CAN/CSA-C22.2 No 950-95 | - | Safety of Information Technology Equipment, Including Electrical Business Equipment |
| UL 1950, Third Edition | - | Safety of Information Technology Equipment, Including Electrical Business Equipment |



CSA INTERNATIONAL

Supplement to Certificate of Compliance

Certificate: 1338305

Master Contract: 188668 (LR 111897)

*The products listed, including the latest revision described below,
are eligible to be marked in accordance with the referenced Certificate.*

Product Certification History

Project	Date	Description
1355375	September 5, 2002	Include Models FSP550-60PLNXX and FSP550-60PLGXX
1338305	July 17, 2002	Original Certification

Certificate of Compliance

We, **ADVANCE DATA TECHNOLOGY CORP.**, hereby certify that:

The product : Switching Power Supply
Brand Name : FSP, FORTRON, SPARKLE, AOpen
Model No. : FSP550-60PLN, FSP550-60PLG
Applicant : SPI ELECTRONIC CO., LTD.

One sample (Model: FSP550-60PLN) of the designation has been tested in our facility on Aug. 19, 2002. The test record, data evaluation and Equipment Under Test (EUT) configuration represented in our report no. **C910807A08**, are in compliance with the following standards:

EN55022: 1998, Class B
CISPR 22: 1997, Class B
AS/NZS 3548: 1995+A1: 1997+A2: 1997, Class B



Fred Chen / Manager

Issue Date: Aug. 30, 2002



ADVANCE DATA TECHNOLOGY CORP.

Head office: 47, 14th Lin, Chiapao Tsuen, Lin Kou, Taipei, Taiwan, R.O.C.
TEL:(02)2605-2180 FAX:(02)2605-2943 <http://www.adt.com.tw> e-mail:service@adt.com.tw

Certificate of Compliance

We, **ADVANCE DATA TECHNOLOGY CORP.**, hereby certify that:

The product : Switching Power Supply
Brand Name : FSP, FORTRON, SPARKLE, AOpen
Model No. : FSP550-60PLN, FSP550-60PLG
Applicant : SPI ELECTRONIC CO., LTD.

One sample (Model: FSP550-60PLN) of the designation has been tested in our facility on Aug. 19, 2002. The test record, data evaluation and Equipment Under Test (EUT) configuration represented in our report no. D910807A08, are in compliance with the following standards:

FCC Part 15, Subpart B, Class B
CISPR 22:1997, Class B
ANSI C63.4-1992



Fred Chen / Manager

Issue Date: Aug. 30, 2002



ADVANCE DATA TECHNOLOGY CORP.

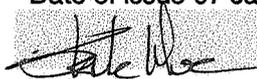
Head office: 47, 14th Lin, Chiapao Tsuen, Lin Kou, Taipei, Taiwan, R.O.C
TEL:(02)2605-2180 FAX:(02)2605-2943 <http://www.adt.com.tw> e-mail:service@adt.com.tw

CERTIFICATE No. P02100800

Accredited Certificate (ref. NA-PROD 016)

Order No. 200301138

Applicant	FSP Group Inc. No. 22, Jianguo E. Rd. Taoyuan City TAIWAN
Manufacturer	FSP Group Inc. No. 22, Jianguo E. Rd. Taoyuan City TAIWAN
Factory	Refer to page 5
Group 63 92000	Build-in power supplies
Model/type	FSP460-60PFN..
Data	10A 100-240V 50-60Hz
Other specification	Cl. I, Power Supply for building-in. AC O/P (optional):2A 100-240V. DC outputs: 27.0A +3.3V, 29.0A +5V, 15.0A +12.0V I/O, 16.5A +12V CPU, 2.0A +5Vsb, 0.3A -5V (optional), 0.8A -12V Max. output power is 460W, +3.3V & 5V output is 200W max. The dots in model name can be A to Z, 0 to 9 or blank, for marketing purpose only.
The changes concern	One new model ACE-850AP added and minor change of address of applicant and manufacturer.
The above product is certified according to the following standard(s)	Safety std.: EN 60950 (1992) A1/A2/A3/A4/A11, including possible listed national conditions/deviations for Norway.
Validity	The addendum together with the original certificate, and possible previous addendum/addenda, documents conformity with the standards shown. The certification is valid as long as the applicable conditions are complied with, and provided that any changes to the product are notified to Nemko for acceptance prior to implementation. New standards or amendments to the standards may imply that the product design must be updated and/or that re-testing and re-certification is necessary.
Additional information	The above certified equipment complies with current technical standard(s) in Norway regarding safety, as far as this can be checked. Compliance with requirements regarding building-in, protection against electric shock and Electromagnetic Compatibility (EMC) must be checked when the equipment is built-in a completed product or forms a part of a complete system. It should be noted that by marketing of equipment subject to official registration in Norway, the party responsible for the marketing shall be registered by the Norwegian Directorate for Product- and Electrical Safety.
Variants	This addendum also covers variants with Position No. from 001 to 009 See next page(s)
Date of issue	07 January 2003


signatureSkule Moe
Certification Department

CERTIFICATE No. P02100800

Accredited Certificate (ref. NA-PROD 016)

Order No. 200301138

Group 63 92000
Position No
Model/type
Data
Other specification

Build-in power supplies
001
FSP460-60PFN..
10A 100-240V 50-60Hz
Brand name: SPI
Cl. I, Power Supply for building-in. AC O/P (optional): 2A, 100-240V.
DC outputs: 27.0A +3.3V, 29.0A +5V, 15.0A +12.0V I/O, 16.5A +12V CPU,
2.0A +5Vsb, 0.3A -5V (optional), 0.8A -12V
Max. output power is 460W, +3.3V & +5V output is 200W max.
The dots in model name can be A to Z, 0 to 9 or blank, for marketing purpose only.

Group 63 92000
Position No
Model/type
Data
Other specification

Build-in power supplies
002
FSP460-60PFN..
10A 100-240V 50-60Hz
Brand name: Apopen
Cl. I, Power Supply for building-in. AC O/P (Optional): 2A,100-240V.
DC outputs: 27.0A +3.3V, 29.0A +5V, 15.0A +12.0V I/O, 16.5A +12V CPU,
2.0A +5Vsb, 0.3A -5V (optional), 0.8A -12V
Max. output power is 460W, +3.3V & +5V output is 200W max.
The dots in model name can be A to Z, 0 to 9 or blank, for marketing purpose only.

Group 63 92000
Position No
Model/type
Data
Other specification

Build-in power supplies
003
FSP550-60PLN..
10A 100-240V 50-60Hz
Cl. I, Power Supply for building-in
DC outputs: 27.0A +3.3V, 29.0A +5V, 18.0A +12.0V I/O, 18.0A+12V CPU,
2.0A +5Vsb, 0.3A -5V (optional), 0.8A -12V
Max. output power: 550W (max. ambient 30°C)
(+3.3V & +5V =150W max.) (+3.3V & +5V & +12V =528W max.) or
max. output power: 500W (max. ambient 50°C)
(+3.3V & +5V =150W max.) (+3.3V & +5V & +12V =478W max.)
The dots in model name can be A to Z, 0 to 9 or blank, for marketing purpose only.

Date of issue 07 January 2003



signature

Skule Moe

Certification Department

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P.O. Box 73, Blindern
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