

CERTIFICATE No. P02100800

Accredited Certificate (ref. NA-PROD 016)

Order No.

200301138

Group 63 92000 Position No Model/type Data

Other specification

004

FSP550-60PLN..

10A 100-240V 50-60Hz

Build-in power supplies

Brand name: SPI

CI. I. Power Supply for building-in

DC output: 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.

Group 63 92000 Position No Model/type Data

Other specification

Build-in power supplies

005

FSP550-60PLN.. 10A 100-240V 50-60Hz

Brand name: Aopen

CI. 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.

Group 63 92000 Position No Model/type Data

006 FSP550-60PLG.. 10A 100-240V 50-60Hz

Build-in power supplies

Other specification

Cl. I, Power Supply for building-in

DC outputs: 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.)

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

Nemko AS P.O. Box 73, Blindern N-0314 Oslo, Norway Office address Gaustadalléen 30 Oslo Telephone +47 22 96 03 30 Enterprise number: Fax +47 22 96 05 50 NO 974404532



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

007

FSP550-60PLG..

10A 100-240V 50-60Hz

Brand name: SPI

Cl. I, Power Supply for building-in

DC outputs: 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.)

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

800

FSP550-60PLG.. 10A 100-240V 50-60Hz Brand name: Appen

Cl. I, Power Supply for building-in

DC outputs: 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.)

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

009

ACE-850AP

10A 100-240V 50-60Hz BRAND NAME: ICP

Cl. I, Power Supply for building-in

DC-outputs: 27.0A +3.3V, 29.0A +5V, 18.0A +12V I/O, 18.0A +12V CPU,

2.0A +5Vsb, 0.3A -5V (optional), 0.8A -12V Max. output power: 550W (max. ambient 30C)

(+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.)

Date of issue 07 January 2003

signature

Skule Moe

Certification Department

Nemko AS P.O. Box 73, Blindern N-0314 Oslo, Norway Office address Gaustadalléen 30

Oslo

Telephone +47 22 96 03 30

Fax

.....

Enterprise number:

+47 22 96 05 50 NO 974404532



CERTIFICATE No. P02100800

Accredited Certificate (ref. NA-PROD 016)

Order No.

200301138

Factory

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

Date, of issue Q7 January 2003

signature

Skule Moe

Certification Department

Nemko AS P.O. Box 73, Blindern N-0314 Oslo, Norway Office address Gaustadalléen 30 Oslo

Telephone +47 22 96 03 30

Fax +47 22 96 05 50

Enterprise number:



CERTIFICATE No. P02100800

Accredited Certificate (ref. NA-PROD 016)

Order No.

200230270

Applicant

FSP Group Inc.

No. 22

Jianguo E. Rd. Taoyuan City 330 TAIWAN R.O.C.

Manufacturer

FSP Group Inc.

No. 22

Jianguo E. Rd. Taoyuan City 330 TAIWAN R.O.C.

Factory

See page 4

Group 63 92000

Build-in power supplies

Model/type

FSP460-60PFN...

Data

AC I/P: 10A 100-240V 50-60Hz

Other specification

CI. I, Power Supply for building-in. AC O/P (optional):2A 100-240V., DC output: 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

Changed -5V to optional for model FSP460-60PFN and addition of two new

models:

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

Additional information on page 4

Variants

This addendum also covers variants with Position No. from 001 to 008

See next page(s)

Date of issue 07 August 2002

signature

Lars Hjerpseth Head of section Line Martinussen

signature

Nemko AS P.O. Box 73, Blindern

N-0314 Oslo, Norway

Office address Gaustadalléen 30 Oslo

Telephone +47 22 96 03 30

Waternissa

Fax +47 22 96 05 50

Enterprise number:



CERTIFICATE No. P02100800

Accredited Certificate (ref. NA-PROD 016)

Order No.

· Star

200230270

Group 63 92000

Build-in power supplies

Position No

001

Model/type

FSP460-60PFN...

Data

AC I/P: 10A 100-240V 50-60Hz

Other specification

Brand name: SPI. Cl. I, Power Supply for building-in. AC O/P (optional): 2A, 100-240V. DC output: 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

Build-in power supplies 002

Model/ Data FSP460-60PFN..

Other specification

AC I/P: 10A 100-240V 50-60Hz

Brand name: AOpen. Cl. I, Power Supply for building-in. AC O/P (Optional): 2A,100-240V DC output: 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 Build-in power supplies

sition No. 0

003

Model/type Data FSP550-60PLN..

Other specification

10A 100-240V 50-60Hz

Cl. I, Power Supply for building-in. DC output: 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.

Group 63 92000 Position No Model/type Build-in power supplies

004

FSP550-60PLN...

Data
Other specification

10A 100-240V 50-60Hz

Brand name: SPI. Cl. I, Power Supply for building-in. DC output: 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.) The dots in model name can be A to Z, 0 to 9 or blank, for marketing

purpose only.

Date of issue 07 August 2002

signature

Lars Hjerpseth

Line Martinussen

signature

Head of section

Office address Gaustadalléen 30

Oslo

+47 22 96 03 30

Telephone

Fax

Hart nussen

Enterprise number:

+47 22 96 05 50 NO 974404532

Nemko AS P.O. Box 73, Blindern N-0314 Oslo, Norway

....



CERTIFICATE No. P02100800

Accredited Certificate (ref. NA-PROD 016)

Order No.

200230270

Group 63 92000

Build-in power supplies

005

Position No Model/type

Data

FSP550-60PLN... 10A 100-240V 50-60Hz

Other specification

Brand name: AOpen Cl. J. Power Supply for building-in. DC output: 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.

Group 63 92000

Build-in power supplies

Position No Model/type

006

Data

FSP550-60PLG... 10A 100-240V 50-60Hz

Other specification

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

purpose only.

Group 63 92000

Build-in power supplies

Position No. Model/type

007

Data

FSP550-60PLG... 10A 100-240V 50-60Hz

Other specification

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

Group 63 92000 Position No

Build-in power supplies

800

Model/type Data

FSP550-60PLG..

Other specification

10A 100-240V 50-60Hz Brand name: AOpen. . 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.) The dots in model name can be A to Z, 0 to 9 $\,$

or blank, for marketing purpose only.

Date of issue 07 August 2002

signature

Lars Hjerpseth

Head of section

line Mertinusser

Line Martinussen

Nemko AS P.O. Box 73, Blindern N-0314 Oslo, Norway

Office address Gaustadalléen 30 Oslo

Telephone +47 22 96 03 30 Fax +47 22 96 05 50

Enterprise number:



CERTIFICATE No. P02100800

Accredited Certificate (ref. NA-PROD 016)

Order No.

200230270

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.

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

Date of issue 07 August 2002

signature

Lars Hjerpseth Head of section signature

Line Martinussen

Nemko AS P.O. Box 73, Blindern N-0314 Oslo, Norway Oslo

Office address Gaustadalléen 30 Telephone +47 22 96 03 30

a Martinusser

Fax

+47 22 96 05 50

Enterprise number:

Certificate



Zertifikat Nr. Certificate No. R 50013082

Blatt Page 0007

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue

RH

ZTW1-LMW- 10003519 003

29.08.2002

(day/mo/yr)

Genehmigungsinhaber License Holder

FSP Group Inc.

No.22, Jiangou E. Road

Taoyuan 330 Taiwan, R.O.C. Fertigungsstätte Manufacturing Plant

Fortron/Source (China) Corp. F2, The 2nd. Industrial Area of Mabu, Xixiang, Baoan Area

Shenzhen, Guangdong

P.R. China

Prüfzeichen Test Mark

Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

BAUART GEPRÜFT

TYPE APPROVED

Certified Product

Zertifiziertes Produkt (Geräteidentifikation)

(Product Identification)

Lizenzentgelte - Einheit License Fee - Unit

Einbau-Schaltnetzteil (Switching Power Supply)

wie Blatt (as page) 01

Ergänzung

(Addition)

Bezeichnung

: FSP550-60PLNXX

(Type Designation)

FSP550-60PLGXX

X steht für (stands for) : 0-9, A-Z oder (or) freibleibend (blank)

max. Umgebungstemperatur : 50°C (500W)

(max. Ambient Temperature) 30°C (550W)

Ausgänge: siehe Aufbau-Übersicht

(Outputs) (see constructional dataform)

max. Ausgangsleistung für +3V & +5V

(max. Output Power for +3V & +5V)

max. Ausgangsleistung für +3V & +5V & +12V: 478W (500W) 528W (550W)

(max. Output Power for +3V & +5V & +12V) max. Ausgangsleistung

: 500W

: 150W

(max. Output Power)

550W



ANLAGE (Appendix): 1.1

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde.

Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht.

This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

Zertifizierungsstelle

Certificate



Zertifikat Nr. Certificate No.

Blatt Page

R 50013245

0003

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue

RH

ZTW1-LMW- 10003519 003

29.08.2002

(day/mo/yr)

Genehmigungsinhaber License Holder

Sparkle Power Inc. 1000 Rock Ave.,

San Jose, CA 95131

Fertigungsstätte Manufacturing Plant Hauptzertifikatsinhaber Original license holder

332245

FSP Group Inc.

Prüfzeichen Test Mark

BAUART

GEPRÜFT

APPROVED

Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)

Lizenzentgelte - Einheit License Fee - Unit

1

<u>Einbau-Schaltnetzteil</u> (Switching Power Supply)

wie Blatt (as page) 01

Ergänzung (Addition)

Bezeichnung

(Type Designation)

: a) FSP550-60PLGXX b) FSP550-60PLNXX

X steht für

: 0-9, A-Z oder (or)

(stands for)

freibleibend (blank)

max. Umgebungstemperatur : 50°C (500W)

(max. Ambient Temperature) 30°C (550W)

Ausgänge: a) DC +3.3V/27.0A, +5V/29.0A, 12.0V/36.0A,

(Outputs)

+5Vsb/2.0A, -5V/0.3A (optional), -12V/0.8A

b) DC +3.3V/27.0A, +5V/29.0A, +12V/18.0A CPU

+12.0V/18.0A I/O, +5Vsb/2.0A,

-5V/0.3A (optional), -12V/0.8A

max. Ausgangsleistung für +3V & +5V

(max. Output Power for +3V & +5V)

max. Ausgangsleistung für +3V & +5V & +12V: 528W (550W)

(max. Output Power for +3V & +5V & +12V)

478W (500W)

max. Ausgangsleistung

: 500W

: 150W

(max. Output Power)

550W

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

Zertifizierungsstelle

Certificate



Zertifikat Nr. Certificate No. R 50013245

Blatt Page 0003

Ihr Zeichen Client Reference

RH

Unser Zeichen Our Reference

ZTW1-LMW- 10003519 003

Ausstellungsdatum 29.08.2002

Date of Issue (day/mo/yr)

Genehmigungsinhaber License Holder

Sparkle Power Inc. 1000 Rock Ave.,

San Jose, CA 95131

USA

Fertigungsstätte Manufacturing Plant Hauptzertifikatsinhaber Original license holder

332245

FSP Group Inc.

Prüfzeichen Test Mark

APPROVED

BAUART GEPRÜFT TYPE

Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

Zertifiziertes Produkt (Geräteidentifikation) Certified Product (Product Identification)

Lizenzentgelte - Einheit License Fee - Unit

1

1

<u>Einbau-Schaltnetzteil</u> (Switching Power Supply)

wie Blatt (as page) 01

Ergänzung (Addition)

Bezeichnung

(Type Designation) X steht für

: a) FSP550-60PLGXX b) FSP550-60PLNXX

(stands for)

: 0-9, A-Z oder (or) freibleibend (blank)

max. Umgebungstemperatur : 50°C (500W)

(max. Ambient Temperature) 30°C (550W)

Ausgänge: a) DC +3.3V/27.0A, +5V/29.0A, 12.0V/36.0A,

(Outputs)

+5Vsb/2.0A, -5V/0.3A (optional), -12V/0.8A b) DC +3.3V/27.0A, +5V/29.0A, +12V/18.0A CPU

+12.0V/18.0A I/O, +5Vsb/2.0A,

-5V/0.3A (optional), -12V/0.8A

max. Ausgangsleistung für +3V & +5V

(max. Output Power for +3V & +5V)

max. Ausgangsleistung für +3V & +5V & +12V: 528W (550W)

(max. Output Power for +3V & +5V & +12V) 478W (500W)

max. Ausgangsleistung

: 500W

: 150W

(max. Output Power)

550W



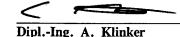
3

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

Zertifizierungsstelle



Certificate



Zertifikat Nr. Certificate No.

Blatt Page

R 50015268

0003

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue (day/mo/yr)

RH

ZTW1-LMW- 10003519 003

29.08.2002

Genehmigungsinhaber License Holder

Aopen Incorporated

3F, No.19-8, San Chung Road Nan Kang Area, Taipei

Taiwan, R.O.C.

Fertigungsstätte Manufacturing Plant Hauptzertifikatsinhaber Original license holder 332245

FSP Group Inc.

Prüfzeichen Test Mark

Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

RAHART GEPRÜFT

TYPE **APPROVED**

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

1

<u>Einbau-Schaltnetzteil</u> (Switching Power Supply)

wie Blatt (as page) 01

Ergänzung (Addition)

Bezeichnung

(Type Designation)

: a) FSP550-60PLGXX b) FSP550-60PLNXX

X steht für

: 0-9, A-Z oder (or)

(stands for)

freibleibend (blank)

max. Umgebungstemperatur : 50°C (500W)

(max. Ambient Temperature) 30°C (550W) Ausgänge: a) DC +3.3V/27.0A, +5V/29.0A, 12.0V/36.0A,

(Outputs)

+5Vsb/2.0A, -5V/0.3A (optional), -12V/0.8A

b) DC +3.3V/27.0A, +5V/29.0A, +12V/18.0A CPU

+12.0V/18.0A I/O, +5Vsb/2.0A,

-5V/0.3A (optional), -12V/0.8A

max. Ausgangsleistung für +3V & +5V (max. Output Power for +3V & +5V)

max. Ausgangsleistung für +3V & +5V & +12V: 528W (550W)

(max. Output Power for +3V & +5V & +12V) 478W (500W)

max. Ausgangsleistung

: 500W

: 150W

(max. Output Power)

550W



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

Zertifizierungsstelle

Certificate



Zertifikat Nr. Certificate No.

Blatt Page

R 50015268

0003

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue (day/mo/yr)

RH

ZTW1-LMW- 10003519 003

29.08.2002

Genehmigungsinhaber License Holder Aopen Incorporated 3F, No.19-8, San Chung Road Nan Kang Area, Taipei

Fertigungsstätte Manufacturing Plant Hauptzertifikatsinhaber Original license holder 332245

FSP Group Inc.

Prüfzeichen Test Mark

Taiwan, R.O.C.

Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

BAUART GEPRÜFT TYPE APPROVED

Zertifiziertes Produkt (Geräteidentifikation) (Product Identification) Certified Product

Lizenzentgelte - Einheit License Fee - Unit

1

1

<u>Einbau-Schaltnetzteil</u> (Switching Power Supply)

wie Blatt (as page) 01

Ergänzung (Addition)

Bezeichnung

(Type Designation) b) FSP550-60PLNXX : 0-9, A-Z oder (or) X steht für

(stands for)

freibleibend (blank)

: a) FSP550-60PLGXX

max. Umgebungstemperatur : 50°C (500W)

30°C (550W) (max. Ambient Temperature)

Ausgänge: a) DC +3.3V/27.0A, +5V/29.0A, 12.0V/36.0A, (Outputs)

+5Vsb/2.0A, -5V/0.3A (optional), -12V/0.8A

b) DC +3.3V/27.0A, +5V/29.0A, +12V/18.0A CPU +12.0V/18.0A I/O, +5Vsb/2.0A,

-5V/0.3A (optional), -12V/0.8A

max. Ausgangsleistung für +3V & +5V

(max. Output Power for +3V & +5V)

max. Ausgangsleistung für +3V & +5V & +12V: 528W (550W) (max. Output Power for +3V & +5V & +12V) 478W (500W)

max. Ausgangsleistung

: 500W

: 150W

(max. Output Power)

550W

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

Zertifizierungsstelle

Dipl.-Ing. A. Klinker

Product &

Rheinland

Tifizierungs

Certificate



Zertifikat Nr. Certificate No.

Blatt Page

R 50021238

0001

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue (day/mo/yr)

SAF02064

ZTW1-WHL- 10003519 004

08.01.2003

Genehmigungsinhaber License Holder

ICP Electronics Inc.

3F, No. 22, Chung-Hsing Rd. Shi-Chi, Taipei Hsien 221

Taiwan, R.O.C.

Fertigungsstätte Manufacturing Plant Hauptzertifikatsinhaber Original license holder

332245

FSP Group Inc.

Prüfzeichen Test Mark

Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

TÜV Rheinland Product Safety **BAUART GEPRÜFT**

TYPE APPROVED

Zertifiziertes Produkt (Geräteidentifikation) Certified Product

(Product Identification)

Lizenzentgelte - Einheit License Fee - Unit

<u>Einbau-Schaltnetzteil</u> (Switching Power Supply)

: 10A

Bezeichnung

: ACE-850APXX (iEi)

1

(Type Designation)

X steht für

: 0-9, A-Z oder freibleibend

1

(stands for) Nennspannung

(or blank) : AC 100-240V, 50-60Hz

(Rated Voltage)

Nennstrom

(Rated Current)

Schutzklasse : I

(Protection Class)

max. Umgebungstemperatur : 50°C (500W) (max. Ambient Temperature) 30°C (550W)

Verschmutzungsgrad

(Pollution Degree)

Fortsetzung Blatt (continued on page) 02



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

Certificate



Zertifikat Nr. Certificate No. R 50021238

Blatt Page

TÜV

Ihr Zeichen Client Reference

TATIONOCA

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue (day/mo/yr)

SAF02064

ZTW1-WHL- 10003519 004

08.01.2003

(00),,,,,,,,

Genehmigungsinhaber License Holder

ICP Electronics Inc. 3F, No. 22, Chung-Hsing Rd. Shi-Chi, Taipei Hsien 221 Taiwan, R.O.C. Fertigungsstätte Manufacturing Plant Hauptzertifikatsinhaber Original license holder 332245

FSP Group Inc.

Prüfzeichen Test Mark

BAUART GEPRÜFT
TYPE
APPROVED
APPROVED

Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

Zertifiziertes Produkt (Geräteidentifikation)

Certified Product (Product Identification)

Lizenzentgelte - Einheit License Fee - Unit

Einbau-Schaltnetzteil (Switching Power Supply)

wie Blatt (as page) 01
Fortsetzung (Continuation)

Ausgänge: DC +3.3V/27.0A, +5V/29.0A, +12V CPU/18A (Outputs) +12.0V I/O/18.0A, +5Vsb/2.0A, -5V/0.3A,

-12V/0.8A

max. Ausgangsleistung für +3.3V & +5V : 150W

(max. Output Power for +3.3V & +5V)

max. Ausgangsleistung für +3.3V & +5V & +12V : 528W (550W) (max. Output Power for +3.3V & +5V & +12V) 478W (500W)

max. Ausgangsleistung
(max. Output Power)

550W

Vermerke : Primär-und Sekundärkreise sind gemäß Verfahren 1 und 2 nach Abschnitt 2.3 getrennt.

Der Einbau muß gemäß der zugehörigen Einbauanweisung erfolgen. (Remarks: Primary and secondary circuits are separated according to method 1 and 2 of clause 2.3. The installation has to be carried out according to the attached installation instruction.)

TÜV Rheinland

Zertifizierungsstelle

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

62 2

Certificate



Zertifikat Nr. Certificate No.

Blatt Page 0001

R 50021238

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

SAF02064

ZTW1-WHL- 10003519 004

08.01.2003

Date of Issue (day/mo/yr)

Genehmigungsinhaber License Holder ICP Electronics Inc.

3F, No. 22, Chung-Hsing Rd. Shi-Chi, Taipei Hsien 221 Taiwan, R.O.C.

Fertigungsstätte Manufacturing Plant Hauptzertifikatsinhaber Original license holder 332245

FSP Group Inc.

Prüfzeichen Test Mark

BAUART **GEPRÜFT**

TYPE **APPROVED** Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

Zertifiziertes Produkt (Geräteidentifikation) Certified Product

(Product Identification)

Lizenzentgelte - Einheit License Fee - Unit

Einbau-Schaltnetzteil (Switching Power Supply)

Bezeichnung

: ACE-850APXX (iEi)

1

(Type Designation)

X steht für

: 0-9, A-Z oder freibleibend

1

(stands for)

(or blank)

Nennspannung

: AC 100-240V, 50-60Hz

(Rated Voltage)

Nennstrom

: 10A

(Rated Current)

Schutzklasse

(Protection Class)

max. Umgebungstemperatur : 50°C (500W) (max. Ambient Temperature) 30°C (550W)

Verschmutzungsgrad

(Pollution Degree)

Fortsetzung Blatt (continued on page) 02



Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

Zertifizierungsstelle

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com

Certificate



Zertifikat Nr. Certificate No. R 50021238

Blatt Page 0002

Ihr Zeichen Client Reference

Unser Zeichen Our Reference

Ausstellungsdatum

Date of Issue (day/mo/yr)

SAF02064

ZTW1-WHL- 10003519 004

08.01.2003

Genehmigungsinhaber License Holder ICP Electronics Inc. 3F, No. 22, Chung-Hsing Rd. Shi-Chi, Taipei Hsien Taiwan, R.O.C.

Fertigungsstätte Manufacturing Plant Hauptzertifikatsinhaber Original license holder 332245 FSP Group Inc.

Prüfzeichen Test Mark

BAUART **GEPRÜFT**

TYPE **APPROVED** Geprüft nach Tested acc. to

EN 60950:1992+A1+A2+A3+A4+A11

Certified Product

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

Einbau-Schaltnetzteil (Switching Power Supply)

wie Blatt (as page) 01 Fortsetzung (Continuation)

Ausgänge : DC +3.3V/27.0A, +5V/29.0A, +12V CPU/18A +12.0V I/O/18.0A, +5Vsb/2.0A, -5V/0.3A, (Outputs)

-12V/0.8A

max. Ausgangsleistung für +3.3V & +5V : 150W

(max. Output Power for +3.3V & +5V)

max. Ausgangsleistung für +3.3V & +5V & +12V : 528W (550W) 478W (500W) (max. Output Power for +3.3V & +5V & +12V) : 500W

max. Ausgangsleistung

(max. Output Power)

550W

Vermerke : Primär-und Sekundärkreise sind gemäß Verfahren 1 und 2 nach Abschnitt 2.3 getrennt. Der Einbau muß gemäß der zugehörigen Einbauanweisung erfolgen. (Remarks : Primary and secondary circuits are separated according to method 1 and 2 of clause 2.3. The installation has to be carried out according to the attached installation instruction.)

nland Product & /i≥lerungs§

Zertifizierungsstelle

Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde. Das Produkt entspricht den o.g. Anforderungen, die Herstellung wird überwacht. This certificate is based on our Testing and Certification Regulation. The product fulfills above-mentioned-requirements, the production is subject to surveillance.

TÜV Rheinland Product Safety GmbH, Am Grauen Stein, D-51105 Köln

Tel.:(+49/221)8 06 - 13 71 Fax:(+49/221)8 06 - 39 35 e-mail: Althofff@de.tuv.com



2600 N.W. Lake Road Camas, WA 98607-8542 (360) 817-5500 FAX No. (360) 817-6000

NOTICE OF AUTHORIZATION TO APPLY THE UL MARK

August 22, 2002

FSP Group Inc 22 Jianguo E Rd Taoyuan City, Taiwan

Attention: Mr. Mike Lin

Reference: File E190414, Project 02CA05095

Subject: PC Power Supply, Models FSP550-60PLNXX and FSP550-60PLGXX

Dear Mr. Lin:

We have completed our engineering investigation under the above project number and find the component complies with the applicable requirements.

This letter temporarily supplements the UL Follow-Up Service Inspection Procedure and serves as authorization to apply the UL Recognized Component Mark and the UL Recognized Component for Canada to the above component.

Identical to Models FSP550-60PLNXX and FSP550-60PLGXX, which were submitted to UL for this investigation. The UL records covering the product will be in the Follow-Up Service Inspection Procedure, File E190414, Volume 1, Section 45.

To provide the manufacturer with the intended authorization to use the UL Mark, the addressee must send a copy of the Notice and all attached material to each manufacturing location.

This authorization is effective for 90 days only from the date of this Notice. Records covering the product are now being prepared and will be sent to you in the near future.

Products produced which bear the UL Mark shall be identical to those which were evaluated by UL and found to comply with the applicable requirements.

If changes in construction are discovered, authorization to use the UL Mark may be withdrawn and products that bear the UL Mark may have to be revised (in the field or at the manufacturer's facility) to bring them into compliance with the applicable requirements.

<u>Follow-Up Service</u> - The costs associated with Follow-Up Service to cover such things as the Annual Maintenance Fee, Inspection and Follow-Up Testing Fees (if applicable) are above and beyond the cost of this project. To learn more information associated with Follow-Up Service please visit our web site at www.ul.com/faq/followup.html.

Should you have any questions or need further assistance, please do not hesitate to contact me.

Best regards

Kam Chan

Senior Project Engineer

Conformity Assessment Services

Tel: (360).817-5664 Fax: (360).817-6018 Reviewed by:

David Heath

Project Engineer

Conformity Assessment Services

全漢企業股份有限公司

安規證書

料號 : 9PA5500203(FSP550-60PLN(I221),ATX,SPS,B,W/NK,WO/IO,WO/O,WO/SS,FSP(F/S)

,W/PFC(A),11L2S,INTEL,FULL RANGE)

版次 : 1

文件編號 : SFD03000596

客戶

製造商名稱

型號 : ACE-850AP 備註 : Multiple-Listing 作者 : 侯秀諭 Hyhou

研發部門 : RD2

安規號碼

安規種類 : UL/CUL

機密 : N

編號 :

單位	姓名	單位	姓名	單位	姓名
文件發行	蕭雅鶴 Nora				
		FSP GF	OUP		
		(基)	17 44		

*ADDS MODEL
UNDERWRITERS LABORATORIES INC.
MULTIPLE RECOGNITION CORRELATION SHEET

ML File No. E209781

Issued: 2001-01-11 Revised: 2003-03-03

MULTIPLE RECOGNITION

of

POWER SUPPLIES, INFORMATION TECHNOLOGY EQUIPMENT INCLUDING ELECTRICAL BUSINESS EQUIPMENT-COMPONENT (QQGQ2/QQGQ8)

for

[833599001] ICP Electronics Inc.

Basically Recognized for

[488321001] FSP Group Inc.

Basically Recognized products covered by Procedure and/or Reports under File No. $\underline{\text{E190414}}$, Vol. $\underline{\text{1}}$

Products	Report	Basic Applicant's (Supplier's)		Multiple Listee's
Covered	<u>Date</u>	Product Designation		Product Designation
	9/5/00	USR/CNR	FSP300-60PFN	ACE-832AP
	5/14/99	USR/CNR	FSP300-60BN (12v)	ACE-832A
	9/5/00	USR/CNR	FSP300-60PFN	ACE-832AP-S
	1/22/00	USR/CNR	FSP400-60GN	ACE-840A
	9/5/00	USR/CNR	FSP400-60PFN	ACE-840AP
	10/3/01	USR/CNR	FSP390-40AT	ACE-940AP
	7/30/02	USR/CNR	FS0150-50PL1	ACE-816AP
	10/7/02	USR/CNR	FSP100-60DL (24V)	ACE-815C
	"	USR/CNR	FSP150-60DL (48V)	ACE-815T
	10/16/02	USR/CNR	FSP150-40AT	ACE916AP
	6/4/02	USR/CNR	FSP550-60PLN	ACE-850AP
	12/17/02	USR/CNR	FSP200-40AT	ACE-916A

Marking: Same as that described in Follow-Up Service Procedure and/or Report except for Multiple Listee's name, ML tradename, when applicable, and product designation.

IC: 750 Shenzhen, 749 Shanghai

1/1 禁止翻印外洩

SFD03000596-R1.pdf 發行時間: 2003/4/7 5:36 下午