



全漢企業股份有限公司

安規證書

料號 :
Model Name : FSP500-50FDB,FSP500-20FDB,FSP400-50FDB,FSP400-20FDB,FSP420-
版次 : 04
文件編號 : SFD-00002936
作者 : chow/周懿慧(FSP)
Model No/Type : FSP500-50FDB,FSP500-20FDB,FSP400-50FDB,FSP400-20FDB,FSP420-52FDB
SFA NO. : SFA21021001
Trade mark : FSP
安規種類 : CB 62368
發行日期 : 2021/05/19 10:16:56
備註 : CB 62368 for FSPxxx-50FDB 增加FSP420-52FDB modify

	Ref. Certif. No. DK-79340-M1-UL
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME	
CB TEST CERTIFICATE	
Product	Switching Power Supply
Name and address of the applicant	FSP GROUP INC. 22, JIANGUO E RD. TAOYUAN CITY 330, TAIWAN
Name and address of the manufacturer	FSP GROUP INC. 22, JIANGUO E RD. TAOYUAN CITY 330, TAIWAN
Name and address of the factory	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
<i>Note: When more than one factory, please report on page 2</i>	☒ Additional Information on page 2
Ratings and principal characteristics	See Page 2
Trademark / Brand (if any)	
Type of Customer's Testing Facility (CTF) Stage used	FSP420-52FDB, FSPxxx-20FDB, See Page 2
Model / Type Ref.	The report was revised to include technical modifications. ☒ Additional Information on page 2
Additional information (if necessary may also be reported on page 2)	IEC 62368-1:2014
A sample of the product was tested and found to be in conformity with	PSE107-0895-1-B issued on 2020-12-23
As shown in the Test Report Ref. No. which forms part of this Certificate	
This CB Test Certificate is issued by the National Certification Body	
	☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA ☒ UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN ☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA For full legal entity names see www.ul.com/ncbnames
Date: 2020-12-31 Original Issue Date: 2018-12-21	Signature:  Jan-Erik Storgaard

	<table border="1"> <tr> <td>Ref. Certif. No.</td> </tr> <tr> <td>DK-79340-M1-UL</td> </tr> </table>	Ref. Certif. No.	DK-79340-M1-UL						
Ref. Certif. No.									
DK-79340-M1-UL									
Model Details: FSP420-52FDB,FSPxxx-20FDB,FSPxxx-50FDB (xxx can be 500, 400 stand for output wattage) Factories: Zhonghan Electronics (Shenzhen) Co., Ltd. Building A2 in Section A,Building 4,6,7 in Section C,JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, P.R. China Wuxi SPI Technology Co., Ltd. No. 96, XinmeiRoad, New District, Wuxi city, Jiangsu, P.R. China ZHONGHAN SCIENCE & TECH CO. LTD Building 9, Section B, JuYuan Industrial Zone, TangWei Village, FuYong Town, BaoAn District. ShenZhen City, Guangdong, China Wuxi ZhongHan Technology Co., Ltd Block 106-E, Wuxi Nation HI-TECH Industrial, Development Zone, Wuxi City, Jiangsu, Province, P.R. China ShenZhen HuiLi Electronics CO., LTD Block A, Building 3,No. 5185, YeeYuan Rd., County 74, Xin'an, Bao'an, Shenzhen, Guangdong, P.R. China ShenZhen HuiLi Electronics CO., LTD Building B & G, Peace Hi-tech Industrial Zone, Peace Village, FuHai Town, Bao'an, Shenzhen, Guangdong, P.R. China Ziqiang Factory of FSP Technology Inc. 2F., No. 722, Ziqiang S. Rd., Guishan Dist., Taoyuan City 333 Taiwan ShenZhen HuiLi Electronics CO., LTD. Building C4-C11, No. 352, LiuTang Rd., County 73, Bu'Xin Village, Xin'an, Bao'an, Shenzhen, Guangdong, China									
Additional information (if necessary)  <table border="0"> <tr> <td>☐</td> <td>UL (US), 333 Pflingsten Rd IL 60062, Northbrook, USA</td> </tr> <tr> <td>☒</td> <td>UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK</td> </tr> <tr> <td>☐</td> <td>UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN</td> </tr> <tr> <td>☐</td> <td>UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA</td> </tr> </table> For full legal entity names see www.ul.com/ncbnames Date: 2020-12-31 Original Issue Date: 2018-12-21  Signature: Jan-Erik Storgaard		☐	UL (US), 333 Pflingsten Rd IL 60062, Northbrook, USA	☒	UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK	☐	UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN	☐	UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA
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☐	UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA								

	Ref. Certif. No.
DK-79340-M1-UL	
Ratings: For FSP500-20FDB AC Input: 100-240V~, 8-4A, 60-50Hz DC Output: +12V/41A, +5Vsb/3A Total output continuous shall not exceed 500W For FSP400-50FDB AC Input: 100-240V~, 6-3A, 60-50Hz DC Output: +3.3V/14A, +5V/16A, +12V/33A, +5Vsb/3A, -12V/0.3A (+3.3V & +5V = 90W max.) Total output continuous shall not exceed 400W For FSP400-20FDB AC Input: 100-240V~, 6-3A, 60-50Hz DC Output: +12V/33A, +5Vsb/3A Total output continuous shall not exceed 400W For FSP420-52FDB AC Input: 100-240V~, 8-4A, 60-50Hz DC Output: +3.3V/14A, +5V/16A, +12V/34.5A, +5Vsb/3A, -12V/0.3A (+3.3V & +5V = 90W max.) Total output continuous shall not exceed 420W Additional Information: Additionally evaluated to EN 62368-1:2014/ A11:2017 National Difference specified in the CB Test Report The original report was modified to include the following changes/additions: 1) Added model FSP420-52FDB similar FSP500-50FDB except model name, rating and Fan reverse. 2) Added description "The product fulfils the requirements of BS EN 62368-1:2014 +A11: 2017" for Summary of compliance with National Differences. 3) Revise 4.1.2 TABLE: List of critical components for DC Fan and Transformer (1L5).	
Additional information (if necessary)  ☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA ☒ UL (Denko), Borupvang 5A DK-2750 Ballerup, DENMARK ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN ☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA For full legal entity names see www.ul.com/ncbnames Date: 2020-12-31 Original Issue Date: 2018-12-21  Signature: Jan-Erik Storgaard	



Ref. Certif. No.

DK-79340-A1-UL

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

CB TEST CERTIFICATE

Product

Switching Power Supply

Name and address of the applicant

FSP GROUP INC.
22, JIANGUO E RD. TAOYUAN CITY 330, TAIWAN

Name and address of the manufacturer

FSP GROUP INC.
22, JIANGUO E RD. TAOYUAN CITY 330, TAIWAN

Name and address of the factory

Note: When more than one factory, please report on page 2

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☒ Additional Information on page 2

Ratings and principal characteristics

See Page 3

Trademark (if any)



Type of Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

FSPxxx-20FDB, FSPxxx-50FDB
See Page 2Additional information (if necessary may also be
reported on page 2)The report was revised to include administrative modifications
☒ Additional Information on page 3A sample of the product was tested and found
to be in conformity with

IEC 62368-1:2014

As shown in the Test Report Ref. No. which forms part
of this Certificate

PSE107-0895-1-A issued on 2019-08-21

This CB Test Certificate is issued by the National Certification Body



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
 UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
 UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
 UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2019-08-26

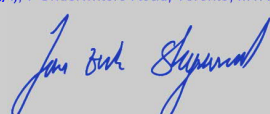
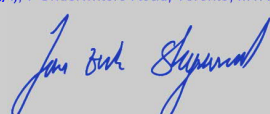
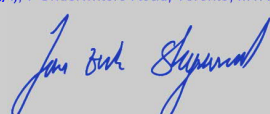
Original Issue Date: 2018-12-21

Signature:

Jan-Erik Storgaard

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Model Details: FSPxxx-20FDB,FSPxxx-50FDB (xxx can be 500, 400 stand for output wattage) Factories: Zhonghan Electronics (Shenzhen) Co., Ltd. Building A2 in Section A,Building 4,6,7 in Section C,JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, P.R. China Wuxi SPI Technology Co., Ltd. No. 96, XinmeiRoad, New District, Wuxi city, Jiangsu, P.R. China ZHONGHAN SCIENCE & TECH CO. LTD Building 9, Section B, JuYuan Industrial Zone, TangWei Village, FuYong Town, BaoAn District. ShenZhen City, Guangdong, China Wuxi ZhongHan Technology Co., Ltd Block 106-E, Wuxi Nation HI-TECH Industrial, Development Zone, Wuxi City, Jiangsu, Province, P.R. China ShenZhen HuiLi Electronics CO., LTD Block A, Building 3,No. 5185, YeeYuan Rd., County 74, Xin'an, Bao'an, Shenzhen, Guangdong, P.R. China ShenZhen HuiLi Electronics CO., LTD Building B & G, Peace Hi-tech Industrial Zone, Peace Village, FuHai Town, Bao'an, Shenzhen, Guangdong, P.R. China Ziqiang Factory of FSP Technology Inc. 2F., No. 722, Ziqiang S. Rd., Guishan Dist., Taoyuan City 333 Taiwan ShenZhen HuiLi Electronics CO., LTD. Building C4-C11, No. 352, LiuTang Rd., County 73, Bu'Xin Village, Xin'an, Bao'an, Shenzhen, Guangdong, China									
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Ref. Certif. No.									
DK-79340-A1-UL									
Ratings: For FSP500-50FDB AC Input: 100-240V~, 8-4A, 60-50Hz DC Output: +3.3V/14A, +5V/16A, +12V/41A, +5Vsb/3A, -12V/0.3A (+3.3V & +5V = 90W max.) Total output continuous shall not exceed 500W For FSP500-20FDB AC Input: 100-240V~, 8-4A, 60-50Hz DC Output: +12V/41A, +5Vsb/3A Total output continuous shall not exceed 500W For FSP400-50FDB AC Input: 100-240V~, 6-3A, 60-50Hz DC Output: +3.3V/14A, +5V/16A, +12V/33A, +5Vsb/3A, -12V/0.3A (+3.3V & +5V = 90W max.) Total output continuous shall not exceed 400W For FSP400-20FDB AC Input: 100-240V~, 6-3A, 60-50Hz DC Output: +12V/33A, +5Vsb/3A Total output continuous shall not exceed 400W Additional Information: Additionally evaluated to EN 62368-1:2014/ A11:2017 National Difference specified in the CB Test Report The original report was modified to include the following changes/additions: 1) Added trademark for model FSP500-50FDB. 2) Alternate factories.									
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☐	UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA								

	Ref. Certif. No. DK-79340-UL		
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME			
CB TEST CERTIFICATE			
Product Name and address of the applicant Name and address of the manufacturer Name and address of the factory <i>Note: When more than one factory, please report on page 2</i> Ratings and principal characteristics Trademark (if any) Type of Customer's Testing Facility (CTF) Stage used Model / Type Ref. Additional information (if necessary may also be reported on page 2) A sample of the product was tested and found to be in conformity with As shown in the Test Report Ref. No. which forms part of this Certificate	Switching Power Supply FSP GROUP INC. 22, JIANGUO E RD. TAOYUAN CITY 330, TAIWAN FSP GROUP INC. 22, JIANGUO E RD. TAOYUAN CITY 330, TAIWAN 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 ☒ Additional Information on page 2 See Page 2  Type of Customer's Testing Facility (CTF) Stage used FSPxxx-20FDB, FSPxxx-50FDB See Page 2 Additionally evaluated to EN 62368-1:2014/A11:2017; National Differences specified in the CB Test Report. ☐ Additional Information on page 2 IEC 62368-1:2014 PSE107-0895-1 issued on 2018-12-13		
This CB Test Certificate is issued by the National Certification Body			
<table border="0"> <tr> <td data-bbox="159 1657 558 1982">  Date: 2018-12-21 </td> <td data-bbox="558 1657 1420 1982"> ☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA ☒ UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN ☐ UL (CA), 7 Underwriters Road, Toronto, M1P 3B4 Ontario, CANADA Signature:  Jan-Erik Storgaard For full legal entity names see www.ul.com/ncbnames </td> </tr> </table>		 Date: 2018-12-21	☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA ☒ UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN ☐ UL (CA), 7 Underwriters Road, Toronto, M1P 3B4 Ontario, CANADA Signature:  Jan-Erik Storgaard For full legal entity names see www.ul.com/ncbnames
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Ref. Certif. No.

DK-79340-UL

Model Details:

FSPxxx-20FDB, FSPxxx-50FDB (xxx can be 500, 400 stand for output wattage)

Factories:

Zhonghan Electronics (Shenzhen) Co., Ltd.

Building A2 in Section A, Building 4, 6, 7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, P.R. China

Wuxi SPI Technology Co., Ltd.

No. 96, Xinmei Road, New District, Wuxi city, Jiangsu, P.R. China

ZHONGHAN SCIENCE & TECH CO. LTD

Building 9, Section B, JuYuan Industrial Zone, TangWei Village, FuYong Town, BaoAn District. ShenZhen City, Guangdong, China

Wuxi ZhongHan Technology Co., Ltd

Block 106-E, Wuxi Nation HI-TECH Industrial, Development Zone, Wuxi City, Jiangsu, Province, P.R. China

ShenZhen HuiLi Electronics CO., LTD

Block A, Building 3, No. 5185, YeeYuan Rd., County 74, Xin'an, Bao'an, Shenzhen, Guangdong, P.R. China

ShenZhen HuiLi Electronics CO., LTD

Building B & G, Peace Hi-tech Industrial Zone, Peace Village, FuHai Town, Bao'an, Shenzhen, Guangdong, P.R. China

Ratings:

For FSP500-50FDB

AC Input: 100-240V~, 8-4A, 60-50Hz

DC Output: +3.3V/14A, +5V/16A, +12V/41A,
+5Vsb/3A, -12V/0.3A
(+3.3V & +5V = 90W max.)

Total output continuous shall not exceed 500W

For FSP500-20FDB

AC Input: 100-240V~, 8-4A, 60-50Hz

DC Output: +12V/41A, +5Vsb/3A

Total output continuous shall not exceed 500W

For FSP400-50FDB

AC Input: 100-240V~, 6-3A, 60-50Hz

DC Output: +3.3V/14A, +5V/16A, +12V/33A,
+5Vsb/3A, -12V/0.3A
(+3.3V & +5V = 90W max.)

Total output continuous shall not exceed 400W

For FSP400-20FDB

AC Input: 100-240V~, 6-3A, 60-50Hz

DC Output: +12V/33A, +5Vsb/3A

Total output continuous shall not exceed 400W

Additional information (if necessary)



UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA

UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK

UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN

UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2018-12-21

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-79340-M2-UL

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

CB TEST CERTIFICATE

Product

Switching Power Supply

Name and address of the applicant

FSP GROUP INC.
22, JIANGUO E RD. TAOYUAN CITY 330,
TAIWAN

Name and address of the manufacturer

FSP GROUP INC.
22, JIANGUO E RD. TAOYUAN CITY 330,
TAIWAN

Name and address of the factory

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

Note: When more than one factory, please report on page 2

☒ Additional Information on page 2

Ratings and principal characteristics

☒ Additional Information on page 2

Trademark (if any)



Customer's Testing Facility (CTF) Stage used

Model / Type Ref.

FSPxxx-50FDB, FSPxxx-20FDB, FSP420-52FDB
(xxx can be 500, 400 stand for output wattage)
☐ Additional Information on page 2

Additional information (if necessary may also be reported on page 2)

The report was revised to include technical modifications.

☒ Additional Information on page 2

A sample of the product was tested and found to be in conformity with

IEC 62368-1:2014

As shown in the Test Report Ref. No. which forms part of this Certificate

PSE107-0895-1-C issued on 2021-05-10

This CB Test Certificate is issued by the National Certification Body



- ☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
- ☒ UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
- ☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
- ☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

Date: 2021-05-18

Original Issue Date: 2018-12-21

Signature:

Jan-Erik Storgaard



Ref. Certif. No.

DK-79340-M2-UL

Factories:

Zhonghan Electronics (Shenzhen) Co., Ltd.
Building A2 in Section A, Building 4, 6, 7 in Section C, JuYuan Industrial Zone, TangWei Village, FuHai Town, BaoAn Dist., ShenZhen City, Guangdong, P.R. China

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

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Ziqiang Factory of FSP Technology Inc.
2F., No. 722, Ziqiang S. Rd., Guishan Dist., Taoyuan City 333 Taiwan

ShenZhen HuiLi Electronics CO., LTD.
Building C4-C11, No. 352, LiuTang Rd., County 73, Bu'Xin Village, Xin'an, Bao'an, Shenzhen, Guangdong, China

Ratings:

For FSP500-20FDB: AC Input: 100-240V~, 8-4A, 60-50Hz; DC Output: +12V/41A, +5Vsb/3A

Total output continuous shall not exceed 500W

For FSP400-50FDB: AC Input: 100-240V~, 6-3A, 60-50Hz; DC Output: +3.3V/14A, +5V/16A, +12V/33A, +5Vsb/3A, -12V/0.3A (+3.3V & +5V = 90W max.) Total output continuous shall not exceed 400W

For FSP400-20FDB: AC Input: 100-240V~, 6-3A, 60-50Hz; DC Output: +12V/33A, +5Vsb/3A, Total output continuous shall not exceed 400W

For FSP420-52FDB: AC Input: 100-240V~, 8-4A, 60-50Hz; DC Output: +3.3V/14A, +5V/16A, +12V/34.5A, +5Vsb/3A, -12V/0.3A (+3.3V & +5V = 90W max.) Total output continuous shall not exceed 420W

Additionally evaluated to:

EN 62368-1:2014/A11:2017, EN 62368-1:2014

National Differences specified in the CB Test Report.

Summary of Modifications:

For trademark FSP: Update list of critical components, alternate HK board type B PCB layout and circuit.

Additional information (if necessary)

☐ UL (US), 333 Pfingsten Rd IL 60062, Northbrook, USA
☒ UL (Demko), Borupvang 5A DK-2750 Ballerup, DENMARK
☐ UL (JP), Marunouchi Trust Tower Main Building 6F, 1-8-3 Marunouchi, Chiyoda-ku, Tokyo 100-0005, JAPAN
☐ UL (CA), 7 Underwriters Road, Toronto, M1R 3B4 Ontario, CANADA

For full legal entity names see www.ul.com/ncbnames

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Signature:

Jan-Erik Storgaard