



Ref. Certif. No.

CA/37599/CSA

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

CB TEST CERTIFICATE

Product	Bidirectional DC-DC Charger
Name and address of the applicant	FSP Group Inc. No. 22, Jianguo E. Road, Taoyuan 330 Taiwan
Name and address of the manufacturer	FSP Group Inc. No. 22, Jianguo E. Road, Taoyuan 330 Taiwan
Name and address of the factory	ShenZhen HuiLi Electronics CO., LTD. Building C4(101~301)-C11, No. 352, LiuTang Rd., County 73, Bu'Xin Village, Xin'an, Bao'an, Shenzhen, Guangdong, P. R. China <input checked="" type="checkbox"/> Additional Information on page 2
Note: When more than one factory, please report on page 2	
Ratings and principal characteristics	Refer to Page 3 of Certificate
Trademark / Brand (if any)	
Customer's Testing Facility (CTF) Stage used	
Model / Type Ref.	1) FSP240D-10SA1CP, FSP240D-10SA1CR 2) FSP240D-13SA1CP, FSP240D-13SA1CR 3) FSP240D-14SA1CP, FSP240D-14SA1CR
Additional information (if necessary may also be reported on page 2)	National Differences specified in the CB Test Report <input type="checkbox"/> Additional Information on page 2
A sample of the product was tested and found to be in conformity with	IEC 60335-2-29:2016, AMD1:2019 for use in conjunction IEC 60335-1:2010, COR1:2010, COR2:2011, AMD1:2013, COR1:2014, AMD2:2016, COR1:2016
As shown in the Test Report Ref. No. which forms part of this Certificate	CB 188668-80255650

This CB Test Certificate is issued by the National Certification Body



CSA Group  
178 Rexdale Boulevard  
Toronto, ON M9W 1R3 Canada

Date: 2025-09-08

Signature: William Meng

## Name and address of additional factories

**Wuxi SPI Technology Co., Ltd.**

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

**ShenZhen HuiLi Electronics CO., LTD**

Building C4-C11, No. 352, LiuTang Rd.,  
County 73, Bu'Xin Village, Xin'an, Bao'an,  
Shenzhen, Guangdong,  
P.R. China

**FSP Technology Inc. Taoyuan Plant 3**

5F., No. 6, 4F., No. 6, No.6,  
Xinglong Rd., Taoyuan Dist.,  
Taoyuan City, 330  
Taiwan

**Zhonghan Electronics (Shenzhen) Co., Ltd.**

Building 4(101) & Building 4,6,7 in Section C,  
JuYuan Industrial Zone, TangWei Village,  
FuHai Town, BaoAn Dist.,  
ShenZhen City, Guangdong,  
China

**Wuxi ZhongHan Technology Co., Ltd.**

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

**ShenZhen HuiLi Electronics CO., LTD**

Building B & G, Peace Hi-tech Industrial Zone,  
Peace Village, FuHai Town, Bao'an,  
Shenzhen, Guangdong 518102,  
P.R. China

**ZHONGHAN SCIENCE & TECH CO. LTD**

Building 8 & 9, Section B,  
JuYuan Industrial Zone, ChiaoTang Rd.,  
TangWei Village, FuHai Town, BaoAn District.  
ShenZhen City, Guangdong,  
P.R. China

**FSP TECHNOLOGY VIETNAM CO., LTD.**

Factories A5-2, A5-3 and A5-4, Lot 6,  
Cam Dien – Luong Dien Industrial Park,  
Cam Dien Commune, Cam Giang District,  
Hai Duong Province,  
Vietnam

## Additional information (if necessary)



Date: 2025-09-08

Signature: William Meng

**Ratings and principal characteristics**

1) Model FSP240D-10SA1CP, FSP240D-10SA1CR

Forward:

Input: 20Vdc, 3.25A; Output: 42.0Vdc, 1.2A Max.

Input: 20Vdc, 5.0A; Output: 42.0Vdc, 2.0A Max.

Input: 28Vdc, 5.0A; Output: 42.0Vdc, 3.0A Max.

Input: 36Vdc, 5.0A; Output: 42.0Vdc, 4.0A Max.

Input: 48Vdc, 5.0A; Output: 42.0Vdc, 5.25A Max.

Reverse:

Input: 25Vdc - 42.0Vdc, 6.5A Max.

Output: 5.0Vdc, 3.0A(15.0W) / 9.0Vdc, 3.0A(27.0W) / 12.0Vdc, 3.0A(36.0W) / 15.0Vdc, 3.0A(45.0W) / 20.0Vdc, 4.5A(90.0W)

2) Model FSP240D-13SA1CP, FSP240D-13SA1CR

Forward:

Input: 20Vdc, 3.25A; Output: 54.6Vdc, 1.0A Max.

Input: 20Vdc, 5.0A; Output: 54.6Vdc, 1.5A Max.

Input: 28Vdc, 5.0A; Output: 54.6Vdc, 2.2A Max.

Input: 36Vdc, 5.0A; Output: 54.6Vdc, 3.0A Max.

Input: 48Vdc, 5.0A; Output: 54.6Vdc, 4.0A Max.

Reverse:

Input: 25Vdc - 54.6Vdc, 6.5A Max.

Output: 5.0Vdc, 3.0A(15.0W) / 9.0Vdc, 3.0A(27.0W) / 12.0Vdc, 3.0A(36.0W) / 15.0Vdc, 3.0A(45.0W) / 20.0Vdc, 4.5A(90.0W)

3) Model FSP240D-14SA1CP, FSP240D-14SA1CR

Forward:

Input: 20Vdc, 3.25A; Output: 58.8Vdc, 1.0A Max.

Input: 20Vdc, 5.0A; Output: 58.8Vdc, 1.5A Max.

Input: 28Vdc, 5.0A; Output: 58.8Vdc, 2.2A Max.

Input: 36Vdc, 5.0A; Output: 58.8Vdc, 2.8A Max.

Input: 48Vdc, 5.0A; Output: 58.8Vdc, 3.8A Max.

Reverse:

Input: 25Vdc - 58.8Vdc, 6.5A Max.

Output: 5.0Vdc, 3.0A(15.0W) / 9.0Vdc, 3.0A(27.0W) / 12.0Vdc, 3.0A(36.0W) / 15.0Vdc, 3.0A(45.0W) / 20.0Vdc, 4.5A(90.0W)

**Additional information (if necessary)**

Date: 2025-09-08

Signature: William Meng