

储能核心认证目录表

储能核心认证目录			
产品类型	序号	证书登记号	证书名称
PCS (105KW)	1	NE1105250015	CE-EMC
	2	PVP11096/24E-00	CE-LVD
	3	4479925406749-050	62109-1/-2
	4	COC PVP04104/23E-01	南非 NRS097
	5	COC PVP06162/23E-01	50549-1 欧洲通用
	6	COC PVP04014/24E-01	50549-2 欧洲通用
	7	COC PVP06162/23E-02	50549-1+荷兰
	8	COC PVP08100/23E-01	50549-1+C10/11 比利时 typeA
	9	COC PVP11047/24E-01	比利时 typeB
	10	COC PVP09079/23E-01	50549-1+希腊
	11	COC PVP10183/23E-01	50549-1+瑞典
	12	COC PVP11010/23E-01	50549-1+波兰 typeA
	13	COC PVP10070/24E-00 2	50549-1+波兰 typeD
	14	COC PVP09079/23E-02	英国-G99 typeA
	15	COC PVP10070/24E-00 1	英国-G99 typeD
	16	COC PVP01103/24E-01	德国-VDE-AR-N 4105:2018
	17	COC PVP09027/24E-01	50549-2+捷克
	18	COC PVP09027/24E-00 2	50549-2+匈牙利
	19	COC PVP11159/24E-00 1	50549-2+罗马尼亚
	20	CQC23024386269	CQC 产品认证证书
	21	BL-DG2370206-201	高穿和低穿试验报告
	22	GJWSZ2024-0514	泰国 MEA 报告
	23	GJWSZ2024-0518	泰国 PEA 报告
	24	COC PVP11047/24E-00 2	IEC 61727&62116 认证

25	240375REC005-PTCER	德国-VDE4110&4120 预认证
26	240375REC001-CER	西班牙 217001
27	240375REC002-A - CER	西班牙 217002-A
28	240375REC002-B - CER	西班牙 217002-B
29	240375REC003-A - CER	西班牙 NTS631-A
30	240375REC003-B - CER	西班牙 NTS631-B

EPCS-105kW

1. CE-EMC (EPCS30~105-AM)



Certificate of conformity with the following European Directive

Registered No.:
NE1105250015

Electromagnetic Compatibility Directive 2014/30/EU

Reference of applicant	Date of application	File reference	Test report No.	Date of issue	Expiry date
	21.01.2025	TWR2501031	TWR2501031 001	23.01.2025	22.01.2030

This is to certify that the following product complies to all the provisions of the above mentioned European Directive and the following standards:

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F

Serial No.: Engineering samples of EPCS105-AM, EPCS105-AM-F

Applicant: Shenzhen Enjoy Technology Co., Ltd.
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.)
201 Room, Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong
Cooperation Zone, Shenzhen City, Guangdong Province, P.R.China

Standard(s): EN IEC 61000-6-2:2019
EN IEC 61000-6-4:2019

This Certificate of conformity is based on the evaluation of sample(s) of the above mentioned product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD Group. This is to certify that the tested sample is in compliance with the essential requirements referred to in Annex I of Council Directive 2014/30/EU. This certificate can be used by holder in connection with the EC declaration of conformity indicating conformity according to Electromagnetic Compatibility Directive.


Certification Department

Email: info.pc@tuv-nord.com
www.tuv-nord.com

The certificate can be verified by Online certification search in TÜV NORD Taiwan Co., Ltd. website: www.tuvnord.com.tw.
The certification system is based on ISO 17065.

CE The CE marking may be affixed on the product if all relevant and effective Directives are complied with. **CE**

2. CE-LVD (EPCS30~105-AM)



CERTIFICATE

of conformity with the following European Directives

Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

Shenzhen Enjoy Technology Co., Ltd.

(Settle-in Shenzhen Qianhai Commerce Secretariat Co.,Ltd.)
201Room,Building A, Qianwan Road 1, Qiannai Shenzhen-Hong
Kong Cooperation Zone, Shenzhen City, Guangdong Province, P.R.
China

comply to the essential requirements of the above mentioned European Directive and the following standards,
taking into account the German national deviations:

Product(s): Power Conversion System

Model type(s): EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity. The CE marking may be affixed on the product if all relevant and effective Directives are complied with, under full responsibility of the holder.

Certification program:	P31-VA-01 Rev. 02 / 04.20
Certification fundamental(s):	EN 62477-1:2012+A1:2017, EN 62477-1:2012+A12:2021
Registered no.:	44 799 25 406749 - 072
Report no.:	492012463.002
File no.:	PVP11096/24E-001


TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-03-19

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

www.tuev-nord-cert.de prodcert@tuev-nord.de

Please also pay attention to the information stated overleaf.

3. 62019-1 /-2 认证 (EPCS30~105-AM)



CERTIFICATE

of conformity

This certifies that below described products of the applicant:

Shenzhen Enjoy Technology Co., Ltd.

(Settle-in Shenzhen Qianhai Commerce Secretariat Co.,Ltd.)
201Room,Building A, Qianwan Road 1, Qianhai Shenzhen-Hong
Kong Cooperation Zone, Shenzhen City, Guangdong Province, P.R.
China

comply to the essential requirements of the following standards:

Product(s): Power Conversion System

Model type(s): EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS60-AM, EPCS105-AM, EPCS105-AM-F

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this document may use it in connection with the related test report(s)

Certification program: P31-VA-01 Rev. 02 / 04.20

Certification fundamental(s): IEC 62109-1:2010; IEC 62109-2:2011;
EN 62109-1:2010; EN 62109-2:2011

Registered no.: 44 799 25 406749 - 050

Report no.: 492013658.001

File no.: PVP12097/24E-001

TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2025-02-27

TÜV NORD CERT GmbH

Am TÜV 1, D-45307 Essen

www.tuev-nord-cert.de prodcert@tuev-nord.de

Please also pay attention to the information stated overleaf.

4.南非 NRS097 (EPCS30~105-AM)

		
Certificate of Conformity		
Registered No.: COCPPV04104/23E-01		
File reference PVP04104/23E-01	Test report No. TRPVP04104/23E/01	Date of issue 2023-08-29
On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:		
Applicant:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China	
Manufacturer:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China	
Factory:	Shenzhen Enjoy Technology Co., Ltd. 2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luozu Community, Shiyan sub district, Baoan District, Shenzhen city, Guangdong Province, P.R. China	
Product:	Power Conversion System	
Type designation:	EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS80-AM, EPCS105-AM, EPCS105-AM-F	
Certification program:	BOS-P-01 Rev. 00	
Certification fundamental(s):	NRS 097-2-1:2017 Edition 2.1 See test report for detailed information.	
This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).		
 Renewable Energy BOS&ESS-T-002 COC	 中国认可 产品 PRODUCT CNAS C183-P Page 1 of 1	TÜV NORD (HANGZHOU) CO., LTD. Member of TÜV NORD Group Tel: +86-571-85386989 Fax: +86-571-85386986 www.tuv-nord.com/cn P.R. China Version 1.0

5. 50549-1 欧洲通用 (EPCS30~105-AM)



Certificate

of Conformity

Registered No.:
COCVP06162/23E-01

File reference	Test report No.	Date of issue
PVP06162/23E-01	TRPVP06162/23E/01	2023-11-11

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai, Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China
Manufacturer:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China
Factory:	Shenzhen Enjoy Technology Co., Ltd. 2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luozhi Community, Shiyan sub district, Baoan District, ShenZhen city, Guangdong Province, P.R. China
Product:	Power Conversion System
Type designation:	EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS80-AM, EPCS105-AM, EPCS105-AM-F Three-phase, Firmware version: A00
Certification program:	BOS-P-01 Rev. 00
Certification fundamental(s):	EN 50549-1:2019+AC:2019-04 See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).


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6. 50549-2 欧洲通用（EPCS30~105-AM）



Certificate

of Conformity

Registered No.:

COC PVP04014/24E-01

File reference	Test report No.	Date of issue
PVP04014/24E-01	TRPVP04014/24E/01	2024-07-24

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai, Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China
Manufacturer:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai, Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China
Factory:	Shenzhen Enjoy Technology Co., Ltd. Building 5, TE Connectivity Technology Park, Shiyuan Beihuan Road, Bao'an District, Shenzhen, China
Product:	Power Conversion System
Type designation:	EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS80-AM, EPCS105-AM, EPCS105-AM-F
Certification program:	BOS-P-01 Rev. 00
Certification fundamental(s):	EN 50549-2:2019+AC:2019-03 See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



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7. 50549-1+荷兰 (EPCS30~105-AM)



Certificate

of Conformity

Registered No.:
COC PVP06162/23E-02

File reference	Test report No.	Date of issue
PVP06162/23E-02	TRPVP06162/23E/02	2023-10-15

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Manufacturer: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Factory : **Shenzhen Enjoy Technology Co., Ltd.**
2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Lunzhi Community, Shiyan sub district, Baoan District, ShenZhen city, Guangdong Province, P.R. China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): EN 50549-1:2019+AC:2019-04 with deviations of grid protection settings for Netherlands
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



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8. 50549-1+ C10/11 比利时 typeA (EPCS30~105-AM)



Certificate

of Conformity

Registered No.:
COCPPV08100/23E-01

File reference PVP08100/23E-01	Test report No. TRPVP08100/23E/01	Date of issue 2023-10-19
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On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Manufacturer: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Factory : **Shenzhen Enjoy Technology Co., Ltd.**
2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luozu Community, Shiyan sub district, Baoan District, ShenZhen city, Guangdong Province, P.R. China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS80-AM, EPCS105-AM, EPCS105-AM-F

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): EN 50549-1:2019+AC:2019-04 with deviations of grid protection settings according to C10/11:2019 edition 2.2 used for Belgium
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).


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9. 50549-2+ C10/11 比利时 typeB (EPCS30~105-AM)



Certificate

of Conformity

Registered No.:
COCPPV11047/24E-01

File reference
PVP11047/24E-01

Test report No.
TRPPV11047/24E/01

Date of issue
2024-11-27

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant:

Shenzhen Enjoy Technology Co., Ltd.
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.)201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Manufacturer:

Shenzhen Enjoy Technology Co., Ltd.
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.)201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Factory:

Shenzhen Enjoy Technology Co., Ltd.
Building 5, TE Connectivity Technology Park, Shiyan Beihuan Road,
Bao'an District, Shenzhen, China

Product:

Power Conversion System

Type designation:

EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F
Software version: V200B000D000

Certification program:

BOS-P-01 Rev. 00

Certification fundamental(s):

EN 50549-2:2019+A1:2023
with deviations of grid protection settings according to C10/11 edition 2.2
used for Belgium.
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).


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GRID-T-003 COC


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10.50549-1+希腊 (EPCS30~105-AM)



Certificate

of Conformity

Registered No.:

COC PVP09079/23E-01

File reference
PVP09079/23E-02

Test report No.
TRPVP09079/23E/02

Date of issue
2023-11-17

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Manufacturer: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Factory: **Shenzhen Enjoy Technology Co., Ltd.**
2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luozi Community, Shiyan sub district, Baoan District, ShenZhen city, Guangdong Province, P.R. China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS80-AM, EPCS105-AM, EPCS105-AM-F

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): EN 50549-1:2019+AC:2019-04 with deviations of grid protection settings for Greece
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).


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BOS&ESS-T-002 COC

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Version 1.0

11.50549-1+瑞典 (EPCS30~105-AM)

		
Certificate		
of Conformity		
Registered No.: COCPPV10183/23E-01		
File reference PVP10183/23E-01	Test report No. TRPVP10183/23E/01	Date of issue 2023-12-28
On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out.		
Applicant:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China	
Manufacturer:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China	
Factory:	Shenzhen Enjoy Technology Co., Ltd. 2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luozu Community, Shiyan sub district, Baoan District, Shenzhen city, Guangdong Province, P.R. China	
Product:	Power Conversion System	
Type designation:	EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS30-AM, EPCS105-AM, EPCS105-AM-F	
Certification program:	BOS-P-01 Rev. 00	
Certification fundamental(s):	EN 50549-1:2019+AC:2019-04 with deviations of grid protection settings for Sweden See test report for detailed information.	
This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).		
		
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12.50549-1+波兰 typeA (EPCS30~105-AM)



Certyfikat zgodności

Certificate of Conformity

Nr rejestracji:
COCVPV11010/23E-01

Sygnatura pliku	Raport z ewaluacji nr.	Data wydania	Data wygaśnięcia
PVP11010/23E-01	TRPVP11010/23E/01	2023-12-22	2026-12-21

Na podstawie przeprowadzonych badań stwierdzono, że próbki poniższego(ych) produktu(ów) są zgodne z zasadniczymi wymaganiami określonymi w specyfikacji w momencie przeprowadzania badań:

Wnioskodawca:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China
Producent:	Shenzhen Enjoy Technology Co., Ltd. Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China
Fabryka:	Shenzhen Enjoy Technology Co., Ltd. 2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, LuoZu Community, Shiyan sub district, Baoan District, ShenZhen city, GuangDong Province, P.R. China
Produkt:	System konwersji mocy
Model:	EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS80-AM, EPCS105-AM, EPCS105-AM-F
PGM:	Moduł wytwarzania energii typ A
Program certyfikacji:	BOS-P-01 Rev. 00 Schemat certyfikacji wyrobów typu 1a wg ISO/IEC 17067:2013



Harvey Wang
2023.12.22
15:29:02 +08'00'

Harvey Wang
Deputy Specialist Manager

Renewable Energy
BOS&ESS-T-010 COC



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Version 1.0

Certyfikacja podstawowa(e):

PN-EN 50549-1:2019

Wymagania dla instalacji wytwórczych przeznaczonych do równoległego przyłączenia do publicznych sieci dystrybucyjnych - Część 1: Przyłączanie do sieci dystrybucyjnej nN - Instalacje wytwórcze aż do typu B włącznie;

PSE, 2018-12-18

Wymogi Ogólnego Stosowania wynikające z rozporządzenia komisji UE 2016/631 z dnia 14 kwietnia 2016 r. ustanawiającego kodeks sieci dotyczący wymogów w zakresie przyłączenia jednostek wytwórczych do sieci - zatwierdzone Decyzją Prezesa Urzędu Regulacji Energetyki DRE.WOSE.7128.550.2.2018.ZJ z dnia 2 stycznia 2019 r.;

2016/631 EU (NC RFG)

ROZPORZĄDZENIE KOMISJI (UE) 2016/631 z dnia 14 kwietnia 2016 r. w sprawie kodeksu sieci dotyczącego wymogów w zakresie przyłączenia wytwórców do sieci;

PTPIREE, 2021-04-23

Warunki i procedury wykorzystania certyfikatów w procesie przyłączenia modułów wytwarzania energii do sieci elektroenergetycznych

Szczegółowe informacje znajdują się w raporcie z badań.

Jednostka certyfikująca:

TÜV NORD (HANGZHOU) CO., LTD.

Room B409, Building 1, No. 9, Jiuhuan Road, Shangcheng District, Hangzhou City, Zhejiang Province, 310019, P.R. China

Niniejszy dokument oparty jest na ocenie próbek wyżej wymienionego wyrobu (wyróbów). Nie oznacza on oceny masowej produkcji wyrobu(ów) i nie pozwala na stosowanie znaku TÜV NORD. Posiadacz niniejszego dokumentu może go używać w połączeniu z powiązanym raportem(ami) z badań.

Harvey Wang
2023.12.22
15:29:20
+08'00'

Harvey Wang
Deputy Specialist Manager
Renewable Energy

BOS&ESS-T-010 COC



Strona 2 z 3 / Page 2 of 3

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产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
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Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Version 1.0

13.50549-1+波兰 typeD (EPCS30~105-AM)



Certyfikat zgodności

Certificate of Conformity

Nr rejestracji:
COCPPV10070/24E-002

Sygnatura pliku	Raport z ewaluacji nr.	Data wydania	Data wygaśnięcia
PVP10070/24E-002	TRPPV10070/24E/002	2025-03-11	2028-03-10

Na podstawie przeprowadzonych badań stwierdzono, że próbki poniższego(ych) produktu(ów) są zgodne z zasadniczymi wymaganiami określonymi w specyfikacji w momencie przeprowadzania badań:

Wnioskodawca: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong
Cooperation Zone, Shenzhen City, Guangdong Province, P.R. China

Producent: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong
Cooperation Zone, Shenzhen City, Guangdong Province, P.R. China

Fabryka: **Shenzhen Enjoy Technology Co., Ltd.**
Building 4 and Building 5, No. 204 Shihuan Road, Shiyuan Street, Bao'an
District, Shenzhen City, Guangdong Province, P.R. China

Produkt: przekształtnik do współpracy z magazynem energii.

Model: EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F

PGM: Moduł wytwarzania energii typ A, typ B, typ C i typ D

Program certyfikacji: BOS-P-01 Rev. 00
Schemat certyfikacji wyrobów typu 1a wg ISO/IEC 17067:2013

Digitally signed by
Wang Hongwei
Date: 2025.03.11
10:21:49 +08'00'

TUVNORD

Harvey Wang
Deputy Specialist Manager

Renewable Energy

GRID-T-008 COC



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产品
PRODUCT
CNAS C183-P

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P.R. China

14. 英国-G99 typeA (EPCS30~105-AM)



Certificate

of Conformity

Registered No.:

COC PVP09079/23E-02

File reference	Test report No.	Date of issue
PVP09079/23E-01	TRPVP09079/23E/01	2024-06-03

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Manufacturer: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Factory: **Shenzhen Enjoy Technology Co., Ltd.**
2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luozu Community, Shiyan sub district, Baoan District, ShenZhen city, GuangDong Province, P.R. China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): Engineering Recommendation G99 Issue 1 – Amendment 10

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



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BOS&ESS-T-002 COC

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Version 1.0

15. 英国-G99 typeD (EPCS30~125-AM)



Certificate of Conformity

Registered No.:
COCPPV10070/24E-001

File reference
PVP10070/24E-001

Test report No.
TRPVP10070/24E/001

Date of issue
2025-01-24

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Manufacturer: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Factory: **Shenzhen Enjoy Technology Co., Ltd.**
Building 4 and Building 5, No. 204 Shihuan Road, Shiyan Street, Bao'an
District, Shenzhen City, Guangdong Province, P.R. China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F,
EPCS125-AM, EPCS125-AM-F
Software version: V200B000D000

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): Engineering Recommendation G99 Issue 1 – Amendment 10
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).

Renewable Energy

GRID-T-003 COC



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产品
PRODUCT
CNAS C183-P

Page 1 of 1

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16.德国-VDE-AR-N 4105:2018 (EPCS30~105-AM)



Certificate

of Conformity

Eingetragene Nr.:
Registered No.:
COC PVP01103/24E-01

Aktenzeichen
File reference
PVP01103/24E-01

Testbericht Nr.
Test report No.
TRPVP01103/24E/01

Ausstellungsdatum
Date of issue
2024-06-06

Auf der Grundlage der durchgeführten Prüfungen wurde festgestellt, dass die Muster des/der folgenden Produkte(s) zum Zeitpunkt der Durchführung der Prüfungen die wesentlichen Anforderungen der genannten Spezifikationen erfüllen:
On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Antragsteller:
Applicant:

Shenzhen Enjoy Technology Co., Ltd.
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R.China

Hersteller:
Manufacturer:

Shenzhen Enjoy Technology Co., Ltd.
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R.China

Fertigungsstätte:
Factory:

Shenzhen Enjoy Technology Co., Ltd.
2nd floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, LuoZu Community, Shiyan sub district, Baoan District, Shenzhen city, Guangdong Province, P.R. China

Produkt:
Product:

Energieumwandlungssystem
Power Conversion System

Typenbezeichnung:
Type designation:

EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS80-AM, EPCS105-AM, EPCS105-AM-F

Zertifizierungsprogramm:
Certification program:

BOS-P-01 Rev. 00

Zertifizierungsgrundlage(n):
Certification fundamental(s):

VDE-AR-N 4105:2018
DIN VDE V 0124-100:2020-06


Renewable Energy
BOS&ESS-T-008 COC


中国认可
产品
PRODUCT
CNAS C183-P
Seite 1 von 12 / Page 1 of 12

TÜV NORD (HANGZHOU) CO., LTD.
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P.R. China

Version 1.0

17.50549-2+捷克 (EPCS30~105-AM)



Certificate of Conformity

Registered No.:
COC PVP09027/24E-01

File reference
PVP09027/24E-01

Test report No.
TRPVP09027/24E/01

Date of issue
2023-01-01

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Manufacturer: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Factory: **Shenzhen Enjoy Technology Co., Ltd.**
Building 4 and Building 5, No. 204 Shihuan Road, Shiyan Street, Bao'an
District, Shenzhen City, Guangdong Province, P.R. China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F
Software Version: V200B000D000

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): EN 50549-2:2019+A1:2023 with deviations according to the national
network and system protection for Czech
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).

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GRID-T-003 COC

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P.R. China

Version 1.0

18.50549-2+匈牙利 (EPCS30~105-AM)



Certificate of Conformity

Registered No.:
COCVP09027/24E-002

File reference
PVP09027/24E-002

Test report No.
TRPVP09027/24E/002

Date of issue
2025-01-16

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: Shenzhen Enjoy Technology Co., Ltd.
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Manufacturer: Shenzhen Enjoy Technology Co., Ltd.
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Factory: Shenzhen Enjoy Technology Co., Ltd.
Building 4 and Building 5, No. 204 Shihuan Road, Shiyan Street, Bao'an
District, Shenzhen City, Guangdong Province, P.R. China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F
Software Version: V200B000D000

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): EN 50549-2:2019+A1:2023 with deviations according to the national
network code for Hungary
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).

Renewable Energy

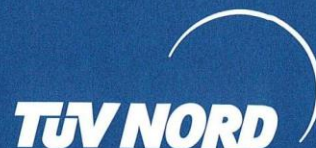
GRID-T-003 COC

Page 1 of 1

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Fax: +86-571-85386986
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P.R. China

Version 1.0

19.50549-2+罗马尼亚 (EPCS30~105-AM)



Certificate of Conformity

Registered No.:
COC PVP11159/24E-001

File reference
PVP11159/24E-001

Test report No.
TRPVP11159/24E/001

Date of issue
2025-03-24

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Manufacturer: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation
Zone, Shenzhen City, Guangdong Province, P.R. China

Factory: **Shenzhen Enjoy Technology Co., Ltd.**
Building 4 and Building 5, No. 204 Shihuan Road, Shiyan Street, Bao'an
District, Shenzhen City, Guangdong Province, P.R. China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM,
EPCS80-AM, EPCS105-AM, EPCS105-AM-F
Software Version: V200B000D000

Certification program: Power Conversion System

Certification fundamental(s): EN 50549-2:2019+A1:2023 with deviations according the national
network and system protection for Romania
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).

Renewable Energy

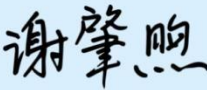
GRID-T-003 COC

Page 1 of 1

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Version 1.0

20.CQC 产品认证证书 (EPCS50~105-AM)

		产品认证证书	
证书编号: CQC23024386269		发证日期: 2025 年 03 月 13 日 有效期至: 2028 年 04 月 26 日	
委托人名称	深圳市恩玖科技有限公司		
及注册地址	深圳市前海深港合作区前湾一路 1 号 A 栋 201 室 (入驻深圳市前海商务秘书有限公司)		
制造商名称	深圳市恩玖科技有限公司		
及注册地址	深圳市前海深港合作区前湾一路 1 号 A 栋 201 室 (入驻深圳市前海商务秘书有限公司)		
生产企业名称	深圳市恩玖科技有限公司		
及生产地址	深圳市宝安区石岩街道石环路 204 号 4 号楼、5 号楼		
产品名称和系列、规格、型号	储能变流器 EPCS105-AM、EPCS80-AM、EPCS63-AM、EPCS50-AM、EPCS105-AM-F (见附件)		
产品标准和技术要求	GB/T 34120-2023		
认证模式	产品型式试验+初次工厂检查+获证后监督		
上述产品符合 CQC33-461296-2024 认证规则的要求, 特发此证。 本证书为变更证书, 证书首次颁发日期: 2023 年 04 月 27 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。			
可通过扫描下方二维码或登录国家认监委网站 (www.cnca.gov.cn) 查验证书信息			
	签发:		
		中国质量认证中心 CHINA QUALITY CERTIFICATION CENTRE	
中国质量认证中心有限公司 中国·北京·南四环西路188号9区 100070		电话: +86 10 83886666 http://www.cqc.com.cn	

21.高穿和低穿试验报告（EPCS105-AM）

报告编号: BL-DG2370206-201



中国认可
国际互认
检测
TESTING
CNAS L14701



检 测 报 告

委托单位: 深圳市恩玖科技有限公司
地址: 深圳市前海深港合作区前湾一路 1 号 A 栋 201 室
(入驻深圳市前海商务秘书有限公司)
样品名称: 储能变流器
样品型号: EPCS105-AM
品牌名称: 
检测依据: GB/T 34133-2017, GB/T 36548-2018
判定依据: GB/T 34120-2017, GB/T 34133-2017
GB/T 36547-2018, GB/T 36548-2018
测试日期: 2023.07.15 - 2023.07.16
签发日期: 2023.07.24

签发方:
东莞市巴能检测技术有限公司

主检: 黄劲



审核: 郑涛



批准: 齐昊



东莞市巴能检测技术有限公司			
检 测 报 告			
样品名称	储能变流器	商 标	
申 请 商	深圳市恩玖科技有限公司	申请商地址	深圳市前海深港合作区前湾一路1号A栋201室(入驻深圳市前海商务秘书有限公司)
制 造 商	深圳市恩玖科技有限公司	制造商地址	深圳市前海深港合作区前湾一路1号A栋201室(入驻深圳市前海商务秘书有限公司)
工 厂	深圳市恩玖科技有限公司	工厂地址	深圳市宝安区石岩街道罗租社区黄峰岭工业区艾美科技园3栋2楼
样品型号	EPCS105-AM	样品数量	1 台
送检日期	2023 年 7 月 5 日	取样方式	送样
检测类别	委托测试	检测环境	21℃~27℃, 60%RH ~ 75%RH, 99.0 kPa ~101.0kPa
样品说明	样品 1 台, 编号为 1#; 检测之前外观完好。 1#: EPCS105-AM		
检测依据	GB/T 34133-2017《储能变流器检测技术规程》; GB/T 36548-2018《电化学储能系统接入电网测试规范》		
检测项目	详见“检测项目及结果汇总表”。		
检测结论	所检项目均符合判定依据要求, 详见“检测项目及结果汇总表” (检测单位盖章) 签发日期: 2023 年 07 月 24 日 检验检测专用章		
备 注			

22. 泰国 MEA 报告 (EPCS105-AM)



แบบตรวจสอบและรับรองรายงานผลการทดสอบ
อินเวอร์เตอร์ที่ใช้ในระบบผลิตไฟฟ้าประเภทเชื่อมต่อกับระบบโครงข่ายไฟฟ้าของการไฟฟ้านครหลวง

ส่วนที่ 1 การรับรองรายงานผลการทดสอบอินเวอร์เตอร์

1.1 รายละเอียดของอินเวอร์เตอร์	
ยี่ห้อ	ENJOY
รุ่น	EPCS105-AM
Firmware Version	DSP: V002B002D000, CPLD: V003B004D000, HMI: V001B002D017
พิกัดทางไฟฟ้า	105 kW
1.2 รายละเอียดของรายงานผลการทดสอบ	
หมายเลขรายงานผลการทดสอบ	GJWSZ2024-0514
ออกเมื่อวันที่	2024-12-10
ชื่อสถาบันหรือหน่วยงานที่ออก รายงานผลการทดสอบอินเวอร์เตอร์	CVC Testing Technology (Shenzhen) Co., Ltd.
ที่อยู่สถาบันหรือหน่วยงานที่ออก รายงานผลการทดสอบอินเวอร์เตอร์	1301-14&16, Guangguang Road, Xinlan Community, Guanlan Subdistrict, Longhua District, Shenzhen, Guangdong, China
1.3 การรับรองรายงานผลการทดสอบ	
ข้าพเจ้าขอรับรองว่าข้อมูลที่กรอกในเอกสารฉบับนี้มีความถูกต้องเป็นจริง และได้ตรวจสอบพบว่าผลการทดสอบอินเวอร์เตอร์ตามรายงานในข้อ 1.2 เป็นไปตามข้อกำหนดสำหรับอินเวอร์เตอร์ที่ใช้ในระบบผลิตไฟฟ้าประเภทเชื่อมต่อกับระบบโครงข่ายไฟฟ้าของการไฟฟ้านครหลวงทุกประการ	
ชื่อหน่วยตรวจสอบและรับรองผลการ ทดสอบอินเวอร์เตอร์	ศูนย์ทดสอบผลิตภัณฑ์ไฟฟ้าและอิเล็กทรอนิกส์
ที่อยู่หน่วยตรวจสอบและรับรองผล การทดสอบอินเวอร์เตอร์	111 อาคารกลุ่มนวัตกรรม ตึก D อุทยานวิทยาศาสตร์ประเทศไทย ถนนพหลโยธิน ตำบลคลองหนึ่ง อำเภอคลองหลวง จังหวัดปทุมธานี 12120
วันที่ออกเอกสาร	10 กุมภาพันธ์ 2568
ตรวจสอบและรับรองข้อมูลโดย	อนุมัติโดย
ลงชื่อ..... (นายเอกชัย เต๊ะสนู) ตำแหน่ง: วิศวกร	ลงชื่อ..... (นายเรืองฤทธิ์ หนีแทนะ) ตำแหน่ง: ผู้จัดการฝ่ายปฏิบัติการ
หมายเหตุ: ผู้อนุมัติต้องเป็นหัวหน้าสูงสุดของหน่วยตรวจสอบและรับรอง ผล การทดสอบ หรือผู้ที่ได้รับมอบหมายให้ปฏิบัติงานแทน	



23.泰国 PEA 报告 (EPCS105-AM)

REPORT No. 162/68-221



Page 1 of 11

VERIFICATION REPORT The requirement on Grid Connection of Provincial Electricity Authority B.E. 2559 (2016)	
Report No.	162/68-221
Job No.	SR702-01
Laboratory Name	Electrical and Electronic Products Testing Center
Address	141 Thailand Science Park, Innovation Cluster 2 Tower D, Phahonyothin Rd., Khlong Nueng, Khlong Luang, Pathum Thani 12120, Thailand
Applicant's Name	Shenzhen Enjoy Technology Co.,Ltd
Address	(Settle-in Shenzhen Qianhai Commerce Secretariat Co.,Ltd.) 201Room, Building A,Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen City, Guangdong Province,P.R.China
Test specification	
Standard	The requirement on Grid Connection of Provincial Electricity Authority Thailand B.E. 2559 (2016)
Non-standard test method	-
Test item description	Power Conversion System
Trademark	
Model and/or type reference	EPCS105-AM
Date of receipt	8 February 2025
Date of report issue	10 February 2025

Prepare by

T. Eakkachai

Eakkachai Taesanoo
Engineer

Approved by

N. Ruengrit

Ruengrit Ninae
Operation Manager

This test report is test results from the EUT only, not the product's quality certificate. It shall not be reproduced except in full without the written approval by PTEC.

PTEC-LB-FR-162

Electrical and Electronic Products Testing Center
National Science and Technology Development Agency, Ministry of Science and Technology

REV.0/24-10-17



24.IEC 61727&62116 认证 (EPCS30~125-AM)

TÜV NORD

Certificate of Conformity

Registered No.:

COCPPV11047/24E-002

File reference
PVP11047/24E-002

Test report No.
TRPVP11047/24E/002

Date of issue
2025-01-20

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong
Cooperation Zone, Shenzhen City, Guangdong Province, P.R. China

Manufacturer: **Shenzhen Enjoy Technology Co., Ltd.**
(Settle-in Shenzhen Qianhai Commerce Secretariat Co., Ltd.) 201Room,
Building A, Qianwan Road 1, Qianhai Shenzhen-Hong Kong
Cooperation Zone, Shenzhen City, Guangdong Province, P.R. China

Factory: **Shenzhen Enjoy Technology Co., Ltd.**
Building 5, TE Connectivity Technology Park, Shiyan Beihuan Road,
Bao'an District, Shenzhen, China

Product: Power Conversion System

Type designation: EPCS30-AM, EPCS50-AM, EPCS63-AM, EPCS80-AM,
EPCS105-AM, EPCS105-AM-F, EPCS125-AM, EPCS125-AM-F
Software version: V200B000D000

Certification program: BOS-P-01 Rev. 00

Certification fundamental(s): IEC 61727:2004, IEC 62116:2014
See test report for detailed information.

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



Renewable Energy

GRID-T-003 COC



中国认可
产品
PRODUCT
CNAS C183-P

Page 1 of 1

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Version 1.0

25.德国-VDE4110&4120 预认证 (EPCS63~125-AM)



PROTOTYPE DECLARATION / Prototypenbescheinigung

Product prototype certificate number / Nummer des Prototypenbescheinigung
For the company: / Für das Unternehmen:

No. 240375RECO05-PTCER

Shenzhen Enjoy Technology Co., Ltd.
(Settle-in Shenzhen Qianhai Commerce Secretariat Co.,Ltd.) 201Room,Building
A,Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen
City,Guangdong Province,P.R.China



Has provided to E&E Product Certification Body of SGS the technical documentation indicated in both articles no. 12 of standards /
Hat der E & E-Produktzertifizierungsstelle von SGS die technischen Dokumente für beide Artikel-Nr. 12 des Standards überliefert:

- **VDE-AR-N 4110: 2023-09.** Technical requirements for the connection and operation of customer installations to the medium voltage network (TAR medium voltage) /
VDE-AR-N 4110: 2023-09. Technische Regeln für den Anschluss von Kundenanlagen an das Mittelspannungsnetz und deren Betrieb (TAR Mittelspannung).
- **VDE-AR-N 4120: 2018-11+A1: 2024-04.** Technical requirements for the connection and operation of customer installations to the high voltage network (TAR high voltage). Amendment A1 /
VDE-AR-N 4120: 2018-11+A1: 2024-04. Technische Regeln für den Anschluss von Kundenanlagen an das Hochspannungsnetz und deren Betrieb (TAR Hochspannung); Änderung A1

For the product / Für das Produkt: **Type 2 (PV-PGU and Storage-PGU) / (PV- EZE und Storage- EZE) Typ 2**

Model / Modell:		EPCS125-AM	
Technical Data / Technische Daten:			
DC	Max. input voltage / Max.-Eingangsspannung:	See Annex 3 / siehe Anhang 3	
	MPPT Voltage Range / MPPT-Spannungsbereich:	See Annex 3 / siehe Anhang 3	
	No. of MPPT inputs per tracker / Anzahl der MPPT-Eingänge pro Tracker	See Annex 3 / siehe Anhang 3	
	Max. input current / Max.-Eingangsstrom:	See Annex 3 / siehe Anhang 3	
AC	AC output power/ AC-Ausgangsleistung:	See Annex 3 / siehe Anhang 3	
	Max. AC output current / Max. AC-Ausgangsstrom:	See Annex 3 / siehe Anhang 3	
	Nominal Grid Voltage / Nominale Netzspannung:	See Annex 3 / siehe Anhang 3	
	Nominal Grid Frequency / Nominale Netzfrequenz:	See Annex 3 / siehe Anhang 3	
Max. input voltage / Max.-Eingangsspannung:		See Annex 3 / siehe Anhang 3	

We confirm that the above mentioned ESS inverters are considered as Prototypes in accordance with the VDE-AR-N 4110, the VDE-AR-N 4120 and the standard FGW TR 8. / Hiermit bestätigen wir, dass es sich bei der genannten storage und EZE nach VDE-AR-N 4110, VDE-AR-N 4120 und FGW TR 8 um einen Prototyp handelt.

- **FGW TR8. Certification of the Electrical Characteristics of Power Generating Units, Systems and Storage Systems as well as for their Components to the Grid. Revision 9. /**
FGW TR8. Zertifizierung der elektrischen Eigenschaften von Erzeugungseinheiten und -anlagen, Speicher sowie für deren Komponenten am Stromnetz. Revision 9.

Test reports and certificates will be issued when the testing process is finished and evaluated with positive result. /
Testberichte und Zertifikate werden nach Abschluss des Testprozesses ausgestellt und mit positivem Ergebnis bewertet.

Madrid, 04th October 2024.

Daniel Arranz
Certification Manager /
Zertifizierungsmanager

SGS

Certificado de conformidad

Por medio del certificado de producto número / By the product certificate number

Emitido a: / Issued to:

Propietario de la licencia: / License holder:

Marca: / Trademark:

Dirección de fábrica: / Factory location:

N° 240375RECO01-CER

Shenzhen Enjoy Technology Co., Ltd.
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Shenzhen Enjoy Technology Co., Ltd.
2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luozi Community, Shiyan Sub-district, Baoan District, Shenzhen City, Guangdong Province, P.R.China

Se certifica que el producto: / It is certified that the product:

Tipo de aparato: / Type of product: **Sistema de Conversión de Potencia / Power Conversion System**

Modelos: / Models: **EPCS63-AM / EPCS80-AM / EPCS105-AM / EPCS125-AM / EPCS105-A1-F / EPCS125-AM-F**

Datos técnicos: / Rated characteristics:

Potencia nominal / Nominal power

Tensión nominal / Nominal voltage

Frecuencia nominal / Nominal frequency

Versión firmware / Firmware version

Número de fases / Number of phases

Transformador de aislamiento / Isolation transformer

Elemento de control / Control device

Ver página 3 / See page 3

230/400 V_{ac}

50 Hz

V002B002D000

Trifásico / Three-phase (3L/N/PE)

No / No

Interno / Internal (Ver página 2 / See page 2)

Está en cumplimiento con la norma de ensayos: / Is in compliance with the test standard:

- UNE 217001: 2020-10** "Ensayos para sistemas que eviten el vertido de energía a la red de distribución"

teniendo en cuenta los requisitos aplicables de la regulación: / taking into account the applicable requirements of the regulation:

- Anexo I de la ITC-BT-40 - Sistemas para evitar el vertido de energía a la red** "Reglamento electrotécnico para baja tensión e ITC. Edición actualizada a 23 de marzo de 2023".

El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-51 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The aforementioned equipment is certified according to the SGS internal procedure PE.T-ECPE-51 according to the requirements established in the standard UNE-EN ISO/IEC 17065.

El certificado contiene la siguiente información: / This certificate contains the following information:

- Datos técnicos de los generadores de potencia. / Technical information of power generators.
- Datos técnicos de los analizadores de potencia. / Technical information of the power analyzers.
- Esquema de la instalación de limitación de potencia con los elementos que la componen y tipo de comunicaciones empleado. / Scheme covering the elements and the installation to limit power injection and the used type of communication.
- Número máximo de unidades generadoras a conectar en paralelo. / Maximum number of generators to be connected in parallel.

Este certificado se emite por vez primera el 6 de septiembre de 2024. / This certificate is first issued on 6th September 2024.
Este certificado es válido hasta el 6 de septiembre de 2029. / This certificate is valid until the 6th September 2029.

Madrid, 6 de septiembre de 2024 / Madrid, 6th September 2024

 María J. González Soria
 Certificadora

SGS Tecnos, S.A.U. C/ Trespaderne, 29 - 28042 Madrid

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N° 240375RECO01-CER

Página 1 de 3

27.西班牙 217002-A (EPCS63~125-AM)

SGS

Certificado de Conformidad

Por medio del certificado de producto número / By the product certificate number **Nº 240375RECO02-A-CER**

Emitido a: / Issued to:
Propietario de la licencia: / License holder: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Marca: / Trademark: 

Dirección de fábrica: / Factory location: **Shenzhen Enjoy Technology Co., Ltd.**
2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luoqu Community, Shiyao Sub-district, Baoan District, Shenzhen City, Guangdong Province, P.R.China

Se certifica que el producto: / It is certified that the product:
Tipo de aparato: / Type of product: **Sistema de Conversión de Potencia / Power Conversion System**

Modelos: / Models: **EPCS63-AM / EPCS105-AM / EPCS105-AM-F / EPCS125-AM / EPCS125-AM-F**

Datos técnicos: / Rated characteristics:

Potencia nominal / Nominal power	Ver página 2 / See page 2
Tensión nominal / Nominal voltage	230/400 V _{ac}
Frecuencia nominal / Nominal frequency	50 Hz
Versión firmware / Firmware version	V002B002D000
Número de fases / Number of phases	Trifásico / Three-phase (3L/N/PE)
Transformador de aislamiento / Isolation transformer	No / No

Está en cumplimiento con la norma de ensayos: / Is in compliance with the test standard:

- UNE 217002: 2020 Inversores para conexión a la red de distribución. Ensayos de los requisitos de inyección de corriente continua a la red, generación de sobretensiones y sistema de detección de funcionamiento en isla.

teniendo en cuenta los requisitos aplicables de la norma y regulación: / taking into account the applicable requirements of the standard and regulation:

- IEC 62116:2014 "Utility-interconnected photovoltaic inverters. Test procedure of islanding prevention measures"
- Anexo I, apartado 2.3.6 y 5.3 de la Orden Ministerial TSC/749/2020, de 16 de julio, por la que se establecen los requisitos técnicos para la conexión a la red necesarios para la implementación de los códigos de red de conexión.

El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-23 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-23 based on the requirements of the UNE-EN ISO/IEC 17065.

Este certificado se emite por vez primera el 9 de septiembre de 2024. / This certificate is first issued on 9th September 2024.
Este certificado es válido hasta el 9 de septiembre de 2029. / This certificate is valid until the 9th September 2029.

Madrid, 9 de septiembre de 2024 / Madrid, 9th September 2024


María J. González Soria
Certificadora

SGS

SGS Tecnos, S.A.U. C/ Trespademe, 29 - 28042 Madrid
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Nº 240375RECO02-A-CER
Página 1 de 2

28.西班牙 217002-B (EPCS63~125-AM)

SGS

Certificado de Conformidad

Por medio del certificado de producto número / By the product certificate number **Nº 240375RECO02-B-CER**

Emitido a: / Issued to:
Propietario de la licencia: / License holder: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Marca: / Trademark: 

Dirección de fábrica: / Factory location: **Shenzhen Enjoy Technology Co., Ltd.**
2nd Floor, Building B, Airmate Technology Park, Huangfengling Industrial Avenue, Luozu Community, Shiyan Sub-district, Baoan District, Shenzhen City, Guangdong Province, P.R.China

Se certifica que el producto: / It is certified that the product:
Tipo de aparato: / Type of product: **Sistema de Conversión de Potencia / Power Conversion System**
Modelos: / Models: **EPCS63-AM / EPCS80-AM / EPCS105-AM / EPCS105-AM-F / EPCS125-AM / EPCS125-AM-F**
Ver página 2 / See page 2

Datos técnicos: / Rated characteristics:
Potencia nominal / Nominal power **220/400 V_{ac}**
Tensión nominal / Nominal voltage **50 Hz**
Frecuencia nominal / Nominal frequency **V002B002D000**
Versión firmware / Firmware version **Trifásico / Three-phase (3L/N/PE)**
Número de fases / Number of phases **No / No**
Transformador de aislamiento / Isolation transformer

Está en cumplimiento con los requisitos de las regulaciones: / Is in compliance with the requirements of the regulations:

- RD 647/2020, de 7 de julio, por el que se regulan aspectos necesarios para la implementación de los códigos de red de conexión de determinadas instalaciones eléctricas. (*)
- RD 413/2014, de 6 de junio, por el que se regula la actividad de producción de energía eléctrica a partir de fuentes de energía renovables, cogeneración y residuos. (*)
- RD 1699/2011, de 18 de noviembre, por el que se regula la conexión a red de instalaciones de producción de energía eléctrica de pequeña potencia. (*)

(*) Observación: Siendo SOLO certificadas las prescripciones técnicas aplicables a los requisitos para funciones de protección ante variaciones anormales de tensión y frecuencia, auto-reconexión y factor de potencia en la red, según viene definido en el Real Decreto 647/2020. / (*) Remark: Being ONLY certified the technical prescriptions applicable to the protective functions requirements for voltage and frequency abnormal variations, self-reconnection and power factor in the grid, as stated in the Real Decreto 647/2020.

El equipo antes mencionado está certificado conforme con el procedimiento interno PROCESO 4 de SGS de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The above-mentioned generating unit is certified according to the SGS internal procedure PROCESO 4 based on the requirements of the UNE-EN ISO/IEC 17065.

Este certificado se emite por vez primera el 9 de septiembre de 2024. / This certificate is first issued on 9th September 2024.
Este certificado es válido hasta el 9 de septiembre de 2029. / This certificate is valid until the 9th September 2029.

Madrid, 9 de septiembre de 2024 / Madrid, 9th September 2024


María J. González Soria
Certificadora



SGS Tecnos, S.A.U. C/ Trespademe, 29 - 28042 Madrid
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Nº 240375RECO02-B-CER
Página 1 de 2

29.西班牙 NTS631-A (EPCS63~125-AM)

SGS

CERTIFICADO DE CONFORMIDAD

Por medio del certificado de producto número / By the product certificate number **Nº 240375RECO03-A-CER**

Emitted a: / Issued to:

Propietario de la licencia: / License holder: **Shenzhen Enjoy Technology Co., Ltd.**
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, P.R. China

Marca: / Trademark: 

Fábrica: / Factory: **Shenzhen Enjoy Technology Co., Ltd.**
Building 4 and Building 5, No. 204 Shihuan Road, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Se certifica que el producto: / It is certified that the product:

Tipo de aparato: / Type of product: **Sistema de conversión de potencia / Power Conversion System**

Modelos: / Models: **EPCS63-AM / EPCS80-AM / EPCS105-AM / EPCS105-AM-F / EPCS125-AM / EPCS125-AM-F**

Datos técnicos: / Rated characteristics:

Potencia nominal / Rated power	250/400 V_{ac}
Tensión nominal / Rated voltage	50 Hz
Frecuencia nominal / Rated frequency	1002B002D000
Versión firmware / Firmware version	Trifásico / Three-phase (3/N/PE)
Número de fases / Number of phases	No / No
Transformador de aislamiento / Isolation transformer	

Está en cumplimiento con las normas: / Is in compliance with of the standards:

- Norma Técnica de Supervisión de la Conformidad de los Módulos de Generación de Electricidad según el Reglamento UE 2016/631. Revisión 2.1 del 9 de julio de 2021 (*)
- Corrección de errores de la versión 2.1 (del 9/7/2021) de la Norma Técnica de Supervisión de la Conformidad de los Módulos de Generación de Electricidad según el Reglamento UE 2016/631. Revisión 1.0 del 8 de octubre de 2021.

(*) Ver en la página 2 más detalles sobre los requisitos de esta norma que están evaluados y en cumplimiento bajo el alcance de este certificado. / See page 2 for more details regarding the standard's requirements that are evaluated and in compliance under the scope of this certificate.

Se certifica que las Unidades de Generación Eléctrica (UGE) indicadas en este certificado cumplen con los requisitos estipulados en la norma certificada para solicitudes de conexión según Tipo A, B y C. / It is certified that the Power Generating Units (PGU) above-indicated are in compliance with requirements detailed in the above-referenced standard for grid connections of TYPE A, B & C.

El equipo antes mencionado está certificado conforme con el procedimiento interno de SGS PE.T-ECPE-65 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The above-mentioned generating unit is certified according to the SGS internal procedure PE.T-ECPE-65 based on the requirements of the UNE-EN ISO/IEC 17065.

Este certificado se emite por vez primera el 20 de noviembre de 2024. / This certificate is first issued on 20th November 2024.

Madrid, 20 de noviembre de 2024 / Madrid, 20th November 2024


Maria J. González Soria
Certificadora



 **SGS Tecnos, S.A.U. C/ Trespademe, 29 - 28042 Madrid**
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Nº 240375RECO03-A-CER
Página 1 de 3

SGS

CERTIFICADO DE CONFORMIDAD

Por medio del certificado de producto número / By the product certificate number

Nº 240375RECO03-B-CER

Emitido a: / Issued to:

Propietario de la licencia: / License holder:

Marca: / Trademark:

Fábrica: / Factory:

Shenzhen Enjoy Technology Co., Ltd.
Qianhai Complex A201, Qianwan Road 1, Qianhai Shenzhen-Hong Kong Cooperation Zone,
Shenzhen, P.R. China

Shenzhen Enjoy Technology Co., Ltd.
Building 4 and Building 5, No. 204 Shihuan Road, Shiyuan Street, Bao'an District, Shenzhen City,
Guangdong Province, P.R. China

Se certifica que el Modelo Dinámico de Simulación: / It is certified that the Dynamic Simulation Model:

Modelo Dinámico de Simulación: / Dynamic Simulation Model:	Nombre de referencia / Reference name Versión / Version Plataforma de simulación y versión usada para el proceso de validación / Simulation platform and version used for the validation process Código de compilación (MD5 Checksum) / Compilation code (MD5 Checksum)	EPCS105-AM.pfd V1.0 Digitalent Power Factory 2024 (Version 24.0.2.0) B0FA0C59DA27D8423CF6DF5EC665D118
---	--	--

Correspondiente al producto: / Corresponding to the product:

Modelos: / Models:

Versión firmware: / Firmware version:

Sistema de conversión de potencia / Power Conversion System

EPCS63-AM / EPCS80-AM / EPCS105-AM / EPCS105-AM-F / EPCS125-AM / EPCS125-AM-F

V002B002D000

es validado en cumplimiento con las normas: / is validated in compliance with the standards:

- Norma Técnica de Supervisión de la Conformidad de los Módulos de Generación de electricidad según el Reglamento UE 2016/631. Revisión 2.1 del 9 de julio de 2021 (*)
- Corrección de errores de la versión 2.1 (del 9/7/2021) de la Norma Técnica de Supervisión de la Conformidad de los Módulos de Generación de electricidad según el Reglamento UE 2016/631. Revisión 1.0 del 8 de octubre de 2021.

(*) Ver en la página 2 más detalles sobre los requisitos de esta norma que están evaluados y en cumplimiento bajo el alcance de este certificado. / See page 2 for more details regarding the standard's requirements that are evaluated and in compliance under the scope of this certificate.

Se certifica que el **Modelo de Dinámico de Simulación de UGE FV** indicado en este certificado cumple con los requisitos de validación estipulados en la norma certificada para solicitudes de conexión. / It is certified that the **Dynamic Simulation Model of PV PGU** above-indicated is in compliance with requirements outlined in the above-referenced standard.

La validación modelo de dinámico de simulación antes mencionado está certificada conforme con el procedimiento interno de SGS PE.T-ECPE-65 de acuerdo con los requisitos de la norma UNE-EN ISO/IEC 17065. / The validation of the above-mentioned Dynamic Simulation Model is certified according to the SGS internal procedure PE.T-ECPE-65 based on the requirements of the UNE-EN ISO/IEC 17065.

Este certificado se emite por vez primera el 20 de noviembre de 2024. / This certificate is first issued on 20th November 2024.

Madrid, 20 de noviembre de 2024 / Madrid, 20th November 2024

Maria J. González Soria
Certificadora

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