CERTIFICATE
of Conformity

TÜVRheinland®

Registration No.: AK 50480786 0001

Report No.: 60404587 001

Holder:
Guangzhou Sanjing Electric Co., Ltd.
No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Product:
PV-Inverter
(Hybrid Solar Inverter)

Identification:

Type Designation: H1-3K-S2, H1-3.6K-S2, H1-4K-S2
H1-4.6K-LS2, H1-4.6K-S2, H1-5K-LS2
H1-5K-S2, H1-6K-LS2, H1-6K-S2
Serial Number : H1S2602G2012E00004
Remark : Refer to test report 60404587 001 for details.

Tested acc. to:

IEC 62109-1:2010
IEC 62109-2:2011
EN 62109-1:2010
EN 62109-2:2011

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

TÜVRheinland LGA Products GmbH Zertifizierungsstelle

Certification Body

Date 14.09.2020

A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Guangzhou Sanjing Electric Co., Ltd.
Mr. Li Yun

No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Date : 14/09/2020
Our ref. : YY 02
Your ref.: L.Y

Ref : AK Certificate of Conformity

Type of Equipment : Hybrid Solar Inverter
Model Designation : See Certificate
Certificate No. : AK 50480786 0001
Report No. : 60404587 001

Dear Mr. Li Yun,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

A. Chen

Enclosure

TÜV Rheinland (China) Ltd.
莱茵检测认证服务（中国）有限公司

No. 01/03B-08, Floor 7 and No. 01/04B-08, Floor 11, AVIC Building, No.10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing, P.R. China

北京市朝阳区东三环中路乙10号艾维克大厦第7层第01、03B-08号，第11层第01、04B-08号
邮编：100022

Tel: (8610)8524 2222
Fax: (8610)8524 2200
e-mail: info@bj.chn.tuv.com
Internet: http://www.chn.tuv.com

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

Compliance Document

No. D 077831 0018 Rev. 00

Holder of Certificate: **Guangzhou Sanjing Electric Co., Ltd.**
No.9, Lizhishan Road, Science City
510663 Guangzhou High-tech Zone, Guangdong
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(Hybrid Solar Inverter)

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290203078401

Date, 2021-08-06

(Billy Qiu)

TÜV SÜD Product Service GmbH • Certification Body • Ridlerstraße 65 • 80339 Munich • Germany

TÜV®

Product Service

Compliance Document

No. D 077831 0018 Rev. 00

Model(s): **H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-5K-LS2, H1-6K-LS2, H1-4.6K-S2, H1-5K-S2, H1-6K-S2**

Parameters:

Model:	H1-3K-S2	H1-3.6K-S2	H1-4K-S2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5*2 Ad.c.		
PV I_{SC}	15*2 Ad.c.		
Battery input/output parameter			
Input voltage range	42~58.4 Vd.c.		
Maximum input/output voltage	58.4 Vd.c.		
Maximum input/output current	60 Ad.c.		
Grid parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Rated output current	13.1 Aa.c.	16.0 Aa.c.	17.4 Aa.c.
Maximum continuous output current	13.6 Aa.c.	16.7 Aa.c.	18.2 Aa.c.
Rated output active power	3 kW	3.68 kW	4 kW
Power factor	0.9 leading to 0.9 lagging		
Protection class	Class I		

Model:	H1-4.6K-LS2	H1-5K-LS2	H1-6K-LS2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5*2 Ad.c.		
PV I_{SC}	15*2 Ad.c.		
Battery input/output parameter			
Input voltage range	42~58.4 Vd.c.		
Maximum input/output voltage	58.4 Vd.c.		
Maximum input/output current	60 Ad.c.		
Grid parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Rated output current	20.0 Aa.c.	21.8 Aa.c.	26.1 Aa.c.
Maximum continuous output current	20.9 Aa.c.	22.7 Aa.c.	27.3 Aa.c.
Rated output active power	4.6 kW	5 kW	6 kW
Power factor	0.9 leading to 0.9 lagging		
Protection class	Class I		

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Product Service

Compliance Document

No. D 077831 0018 Rev. 00

Model:	H1-4.6K-S2	H1-5K-S2	H1-6K-S2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5*2 Ad.c.		
PV I_{SC}	15*2 Ad.c.		
Battery input/output parameter			
Input voltage range	42~58.4 Vd.c.		
Maximum input/output voltage	58.4 Vd.c.		
Maximum input/output current	100 Ad.c.		
Grid parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Rated output current	20.0 Aa.c.	21.8 Aa.c.	26.1 Aa.c.
Maximum continuous output current	20.9 Aa.c.	22.7 Aa.c.	27.3 Aa.c.
Rated output active power	4.6 kW	5 kW	6 kW
Power factor	0.9 leading to 0.9 lagging		
Protection class	Class I		

Tested according to: EN 50549-1:2019/AC:2019

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

Compliance Document

No. D 077831 0021 Rev. 00

Holder of Certificate: **Guangzhou Sanjing Electric Co., Ltd.**
No.9, Lizhishan Road, Science City
510663 Guangzhou High-tech Zone, Guangdong
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(Hybrid Solar Inverter)

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290203078701

Date, 2021-10-14

(Billy Qiu)

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Product Service

Compliance Document

No. D 077831 0021 Rev. 00

Model(s): **H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-S2, H1-5K-S2, H1-6K-S2, H1-4.6K-LS2, H1-5K-LS2, H1-6K-LS2**

Parameters:

Model:	H1-3K-S2	H1-3.6K-S2	H1-4K-S2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5*2 Ad.c.		
PV I_{SC}	15*2 Ad.c.		
Battery input/output parameter			
Input voltage range	42~58.4 Vd.c.		
Maximum input/output voltage	58.4 Vd.c.		
Maximum input/output current	60 Ad.c.		
Grid parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Rated output current	13.1 Aa.c.	16.0 Aa.c.	17.4 Aa.c.
Maximum continuous output current	13.6 Aa.c.	16.7 Aa.c.	18.2 Aa.c.
Rated output active power	3 kW	3.68 kW	4 kW
Power factor	0.9 leading to 0.9 lagging		
Protection class	Class I		

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Product Service

Compliance Document

No. D 077831 0021 Rev. 00

Model:	H1-4.6K-LS2	H1-5K-LS2	H1-6K-LS2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5*2 Ad.c.		
PV I_{SC}	15*2 Ad.c.		
Battery input/output parameter			
Input voltage range	42~58.4 Vd.c.		
Maximum input/output voltage	58.4 Vd.c.		
Maximum input/output current	60 Ad.c.		
Grid parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Rated output current	20.0 Aa.c.	21.8 Aa.c.	26.1 Aa.c.
Maximum continuous output current	20.9 Aa.c.	22.7 Aa.c.	27.3 Aa.c.
Rated output active power	4.6 kW	5 kW	6 kW
Power factor	0.9 leading to 0.9 lagging		
Protection class	Class I		

Model:	H1-4.6K-S2	H1-5K-S2	H1-6K-S2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5*2 Ad.c.		
PV I_{SC}	15*2 Ad.c.		
Battery input/output parameter			
Input voltage range	42~58.4 Vd.c.		
Maximum input/output voltage	58.4 Vd.c.		
Maximum input/output current	100 Ad.c.		
Grid parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Rated output current	20.0 Aa.c.	21.8 Aa.c.	26.1 Aa.c.
Maximum continuous output current	20.9 Aa.c.	22.7 Aa.c.	27.3 Aa.c.
Rated output active power	4.6 kW	5 kW	6 kW
Power factor	0.9 leading to 0.9 lagging		
Protection class	Class I		

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Product Service

Compliance Document

No. D 077831 0021 Rev. 00

Tested according to:	IEC 61727:2004 IEC 62116:2014

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Product Service

Compliance Document

No. D 077831 0022 Rev. 00

Holder of Certificate: **Guangzhou Sanjing Electric Co., Ltd.**
No.9, Lizhishan Road, Science City
510663 Guangzhou High-tech Zone, Guangdong
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(Hybrid Solar Inverter)

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290203078601

Date, 2021-12-29

(Billy Qiu)

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Product Service

Compliance Document

No. D 077831 0022 Rev. 00

Model(s): **H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-S2, H1-5K-S2, H1-6K-S2, H1-4.6K-LS2, H1-5K-LS2, H1-6K-LS2**

Parameters:

Model:	H1-3K-S2	H1-3.6K-S2	H1-4K-S2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Input voltage range (Full load)	250~550 Vd.c.		
Rated input voltage	360 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5 Ad.c. * 2		
PV I_{SC}	15 Ad.c. * 2		
Battery input / output parameter			
Input voltage range	42~58.4 Vd.c.		
Rated voltage	48 Vd.c.		
Maximum input / output voltage	58.4 Vd.c.		
Maximum input / output current	60 Ad.c.		
Grid parameter			
Rated voltage	230 Va.c.		
Rated frequency	50 Hz		
Rated input / output current	13.1 Aa.c.	16.0 Aa.c.	17.4 Aa.c.
Maximum continuous input / output current	13.6 Aa.c.	16.7 Aa.c.	18.2 Aa.c.
Rated output active power	3 kW	3.68 kW	4 kW
Power factor	0.9 leading to 0.9 lagging		
Back-up parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Maximum output current	13.6 Aa.c.		
Maximum output active power	3 kW		
General			
Protection class	Class I		

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Product Service

Compliance Document

No. D 077831 0022 Rev. 00

Model:	H1-4.6K-LS2	H1-5K-LS2	H1-6K-LS2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Input voltage range (Full load)	250~550 Vd.c.		
Rated input voltage	360 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5 Ad.c. * 2		
PV I_{SC}	15 Ad.c. * 2		
Battery input / output parameter			
Input voltage range	42~58.4 Vd.c.		
Rated voltage	48 Vd.c.		
Maximum input / output voltage	58.4 Vd.c.		
Maximum input / output current	60 Ad.c.		
Grid parameter			
Rated voltage	230 Va.c.		
Rated frequency	50 Hz		
Rated input / output current	20.0 Aa.c.	21.8 Aa.c.	26.1 Aa.c.
Maximum continuous input / output current	20.9 Aa.c.	22.7 Aa.c.	27.3 Aa.c.
Rated output active power	4.6 kW	5 kW	6 kW
Power factor	0.9 leading to 0.9 lagging		
Back-up parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Maximum output current	13.6 Aa.c.		
Maximum output active power	3 kW	3 kW	3 kW
General			
Protection class	Class I		

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Product Service

Compliance Document

No. D 077831 0022 Rev. 00

Model:	H1-4.6K-S2	H1-5K-S2	H1-6K-S2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Input voltage range (Full load)	250~550 Vd.c.		
Rated input voltage	360 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5 Ad.c. * 2		
PV I_{SC}	15 Ad.c. * 2		
Battery input / output parameter			
Input voltage range	42~58.4 Vd.c.		
Rated voltage	48 Vd.c.		
Maximum input / output voltage	58.4 Vd.c.		
Maximum input / output current	100 Ad.c.		
Grid parameter			
Rated voltage	230 Va.c.		
Rated frequency	50 Hz		
Rated input / output current	20.0 Aa.c.	21.8 Aa.c.	26.1 Aa.c.
Maximum continuous input / output current	20.9 Aa.c.	22.7 Aa.c.	27.3 Aa.c.
Rated output active power	4.6 kW	5 kW	6 kW
Power factor	0.9 leading to 0.9 lagging		
Back-up parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Maximum output current	20.9 Aa.c.	22.7 Aa.c.	22.7 Aa.c.
Maximum output active power	4.6 kW	5 kW	5 kW
General			
Protection class	Class I		

TÜV®

Product Service

Compliance Document

No. D 077831 0022 Rev. 00

Tested according to: IEC 61683:1999

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CERTIFICATE
of Conformity

TÜVRheinland®

Registration No.: AK 50475961 0001

Report No.: 60387394 001

Holder:
Guangzhou Sanjing Electric Co., Ltd.
No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Product:
PV-Inverter
(Hybrid Solar Inverter)

Identification:
Type Designation: H1-3K-S2 H1-3.6K-S2 H1-4K-S2 H1-4.6K-S2
H1-4.6K-LS2 H1-5K-LS2 H1-5K-S2 H1-6K-LS2 H1-6K-S2
Serial Number : H1S2602G2012E00004
Fimware Version : Control board: V1.203,Display board: 2.034
Remark : Refer to test report 60387394 001.

Tested acc. to:
UTE C15-712-1/07.13
DIN VDE 0126-1-1/A1 VFR2013
Enedis-NOI-RES_20E:2019
VFR 2019
SEI REF 04 Version 7
EDT V1:2011

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

TÜVRheinland® Certification Body

Date 28.07.2020

A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group

TÜVRheinland®
Precisely Right.

Guangzhou Sanjing Electric Co.,
Ltd.
Mr. Li Yun

Date : 28/07/2020
Our ref. : 02
Your ref.: L.Y

No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Ref : AK Certificate of Conformity

Type of Equipment : Hybrid Solar Inverter
Model Designation : See Certificate
Certificate No. : AK 50475961 0001
Report No. : 60387394 001

Dear Mr. Li Yun,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

A. Chen

Enclosure

TÜV Rheinland (China) Ltd.
莱茵检测认证服务（中国）有限公司

No. 01/03B-08, Floor 7 and No. 01/04B-08, Floor 11, AVIC Building, No.10B, Central Road, East 3rd Ring Road, Chaoyang District, Beijing, P.R. China

北京市朝阳区东三环中路乙10号艾维克大厦第7层第01、03B-08号，第11层第01、04B-08号
邮编：100022

Tel: (8610)8524 2222
Fax: (8610)8524 2200
e-mail: info@bj.chn.tuv.com
Internet: http://www.chn.tuv.com

CERTIFICATE
of Conformity

TÜVRheinland®

Registration No.: AK 50462534 0001

Report No.: 50347798 001

Holder:
Guangzhou Sanjing Electric Co., Ltd.
No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Product:
PV-Inverter
(Hybrid Solar Inverter)

Identification:

Type Designation	:	H1-3K-S2 H1-3.6K-S2 H1-4K-S2 H1-5K-S2 H1-6K-S2
Serial Number	:	H1S2602G2012E00004, H1S2302G2012E00023
Firmware Version	:	Control board: V1.203, Display board: 2.034
Remark	:	Refer to test report 50347798 001.

Tested acc. to:
UNE 206006 IN:2011
UNE 206007-1 IN:2013
RD 1699:2011
RD 661:2007
RD 413:2014

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Certification Body

Date 27.03.2020

A. Oben

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CERTIFICADO
de conformidad

TÜVRheinland®

Adjunto a
Attachment to

Número de registro:
Registration No.
AK 50462534 0001

Reporte no:
Report No.
50347798 001

Titular de la licencia:
License Holder
Guangzhou Sanjing Electric Co., Ltd.
No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong P. R. China

Tipo de produccion:
Type of production
Inversor solar híbrido

Modelo:
Model
H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-5K-S2, H1-6K-S2

Versión de firmware:
Firmware version
Control board: V1.203, Display board: 2.034

Normas:
Standards

UNE 206006:2011 IN
Ensayos de detección de funcionamiento en isla de múltiples inversores fotovoltaicos conectados a red en paralelo

UNE 206007-1:2013 IN
Requisitos de conexión a la red eléctrica Parte 1: Inversores para conexión a la red de distribución

RD1699/2011
Real Decreto 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.

RD 661/2007
Real Decreto 661/2007, de 25 de mayo, por el que se regula la actividad de producción de energía eléctrica en régimen especial.

RD 413/2014
Real Decreto 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.

Fecha de emisión: **27.03.2020**
Date of issue

Válido hasta el: **26.03.2023**
Valid until the

El certificado de conformidad se refiere al producto mencionado anteriormente. Esto es para certificar que el espécimen está en conformidad con el requisito de evaluación mencionado anteriormente. Este certificado no implica una evaluación de la producción del producto y no permite el uso de una marca de conformidad TÜV Rheinland.

The certificate of conformity refers to the above mentioned product. This is to certify that the specimen is in conformity with the assessment requirement mentioned above. This certificate does not imply assessment of the production of the product and does not permit the use of a TÜV Rheinland mark of conformity.

Organismo de certificación

A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

TÜV Rheinland (China) Ltd.
Member of TÜV Rheinland Group

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Guangzhou Sanjing Electric Co.,
Ltd.
Mr. Li Yun

No.9, Lizhishan Road, Science City,
Guangzhou High-tech Zone,
Guangdong
P.R. China

Date : 27.03.2020
Our ref. : zhangco 02
Your ref.: 168142917

Ref : AK Certificate of Conformity

Type of Equipment : Hybrid Solar Inverter
Model Designation : See Certificate
Certificate No. : AK 50462534 0001
Report No. : 50347798 001

Dear Mr. Li Yun,

We herewith confirm that a sample of the above mentioned technical equipment has been tested and was found to be in accordance with the relevant requirements.

Enclosed please find your Certificate of Conformity.

We appreciate your kind support and would like to offer our assistance and continuous services in the future.

With kind regards,

Certification Body

A. Chen

Enclosure

Certificate of Conformity

Certificate Number: CN-PV-210205

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced specification/standard at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture. The manufacturer shall ensure that the manufacturing process assures compliance of the production units with the examined products mentioned in this certificate.

Applicant Name & Address:	Guangzhou Sanjing Electric Co., Ltd. No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China
Product Description:	Energy Storage System
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Models/Type References:	Inverter conversion device: H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-4.6K-S2, H1-5K-LS2, H1-5K-S2, H1-6K-LS2, H1-6K-S2 Batteries and BMS - Battery Management System See appendix of Certificate of Conformity
Brand Name:	SAJ
Tested according to:	CEI 0-21:2019-04: Reference technical rules for the connection of active and passive users to the LV electrical Utilities
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by China National Accreditation Service for Conformity Assessment (CNAS C058-P) in accordance with ISO/IEC 17065:2012
Test Report Number:	190619145GZU-001, Revision 2: 02 Sep 2021

Certification procedure: SMS-PV-OP-19
Product certification scheme type: Type test
Additional information in Appendix

Signature

Certification Manager: Grady Ye
Date: 09 September 2021

中国认可
产品
PRODUCT
CNAS C058-P

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210205

Model/Type reference..... :	Inverter conversion device: H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-4.6K-S2, H1-5K-LS2, H1-5K-S2, H1-6K-LS2, H1-6K-S2 Brands: SAJ Batteries and BMS - Battery Management System 1 Battery model: B1-5.1-48 Control model: the first module will work as controller Brands: SAJ Batteries and BMS - Battery Management System 2 Battery model: US2000 Control model: 2P15S Brands: PYLONTECH Batteries and BMS - Battery Management System 3 Battery model: B4850 is basic module, the extensional model: PowerDepot H2.5 (make up of 1 basic module B4850) PowerDepot H5.0 (make up of 2 basic module B4850) Powerbox F -2.5 (make up of 1 basic module B4850) Powerbox F -5.0 (make up of 2 basic module B4850) Powerbox F -7.5 (make up of 3 basic module B4850) Powerbox F-10.0 (make up of 4 basic module B4850) Control model: the first module will work as controller Brands: Dyness Batteries and BMS - Battery Management System 4 Battery model: LS 48V 2.4 kWh Brands: Turbo Energy
Inverter Firmware Version..... :	Display board: V2.081; Control board: V1.311
Number of phases ..... :	Single-phase
Nominal Power ..... :	3000W (H1-3K-S2) 3680W (H1-3.6K-S2) 4000W (H1-4K-S2) 4600W (H1-4.6K-LS2, H1-4.6K-S2) 5000W (H1-5K-LS2, H1-5K-S2) 6000W (H1-6K-LS2, H1-6K-S2)
Type ..... :	Bidirectional
CUS (useful capacity of the storage system) ..... :	See following table
Psn (nominal discharge power) ..... :	See following table
Pcn (nominal charge power) ..... :	See following table
Psmax (maximum discharge power) ..... :	See following table

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210205

Pcmax (maximum charge power) ..... :	See following table
BMS Firmware Version	See following table

Battery		CUS (useful capacity of the storage system)	
Model	Manufacturer	Capacity of per battery module (kWh)	Number of Max modules recommended by the manufacturer
B1-5.1-48	SAJ	5.12	8
US2000	PYLONTECH	2.4	8
B4850	Dyness	2.4	12
LS 48V 2.4 kWh	Turbo Energy	2.4	12

Note: batteries are not integrated within the inverter, and shall be installed according to local regulation.

Brand		SAJ		Dyness/ Turbo Energy			PYLONTECH		
Model		B1-5.1-48		B4850/ LS 48V 2.4 kWh			US2000		
Number of modules		1	2 to 8	1	2	3 to 12	1	2	3 to 8
Psn	**H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-5K-LS2, H1-6K-LS2,**	3000W	3000W	2400W	3000W	3000W	2400W	3000W	3000W
	H1-4.6K-S2,	3000W	4600W	2400W	4600W	4600W	2400W	4600W	4600W
	H1-5K-S2, H1-6K-S2	3000W	5000W	2400W	4800W	5000W	2400W	4800W	5000W
Pcn	**H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-5K-LS2, H1-6K-LS2,**	3000W	3000W	2400W	3000W	3000W	2400W	3000W	3000W
	H1-4.6K-S2,	3000W	4600W	2400W	4600W	4600W	2400W	4600W	4600W
	H1-5K-S2, H1-6K-S2	3000W	5000W	2400W	4800W	5000W	2400W	4800W	5000W

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210205

Psmax	**H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-5K-LS2, H1-6K-LS2,**	3000W	3000W	2400W	3000W	3000W	2400W	3000W	3000W
	H1-4.6K-S2,	3000W	4600W	2400W	4600W	4600W	2400W	4600W	4600W
	H1-5K-S2, H1-6K-S2	3000W	5000W	2400W	4800W	5000W	2400W	4800W	5000W
Pcmax	**H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-5K-LS2, H1-6K-LS2,**	3000W	3000W	2400W	3000W	3000W	2400W	3000W	3000W
	H1-4.6K-S2,	3000W	4600W	2400W	4600W	4600W	2400W	4600W	4600W
	H1-5K-S2, H1-6K-S2	3000W	5000W	2400W	4800W	5000W	2400W	4800W	5000W
BMS Firmware Version		V1142		POWER_Protect_1 _201027DPBM(2)_1			V2.4		

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-210205

Ratings & Principle Characteristics:

Model	H1-3K-S2	H1-3.6K-S2	H1-4K-S2	H1-4.6K-S2 H1-4.6K-LS2	H1-5K-S2 H1-5K-LS2	H1-6K-S2 H1-6K-LS2
Max.PV voltage [V]	600V					
PV voltage range [V]	90-550					
PV Isc [A]	15 /15					
Max.input current [A]	12.5 / 12.5					
Battery parameters						
Rated DC voltage [V]	48					
DC voltage range [V]	42 – 58.5					
Max. Charging / discharging current [A]	60/60			60/60 (H1-4.6K-LS2) 100/100 (H1-4.6K-S2)	60/60 (H1-5K-LS2, H1-6K-LS2) 100/100 (H1-5K-S2, H1-6K-S2)	
Grid parameters						
Rated Output Power [W]	3000	3680	4000	4600	5000	6000
Max.Output Power [VA]	3000	3680	4000	4600	5000	6000
Rated Output Current [A]	13.1	16.0	17.4	20.0	21.8	26.1
Max Output Current [A]	14.4	16.0	19.2	20.9	24.0	26.1
Nominal Frequency	50Hz					
Power factor range	0.8Leading – 0.8 lagging					
AC Output [Back-up Mode]						
Rated Output Power [W]	3000			3000(H1-4.6K-LS2) 4600(H1-4.6K-S2)	3000 (H1-5K-LS2, H1-6K-LS2) 5000(H1-5K-S2, H1-6K-S2)	
Output Voltage [V]	230					
Output Frequency [Hz]	50/60					
Safety level	Class I					
Ingress Protection	IP 65					
Operation Ambient Temperature	-25℃ - +60℃					

Verification of certificate with test report: 190619145GZU-001, Revision 2: 02 Sep 2021

TYPE OF APPARATUS:
（the static converters in systems with capacity up to 11.08 kW ）

DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR CONVERSION	ROTATING GENERATOR DEVICE
☒	☒	☒	

Manufacturer: Guangzhou Sanjing Electric Co., Ltd.
Apparatus type: Energy Storage System
Model: Inverter conversion device:
H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-4.6K-S2,
H1-5K-LS2, H1-5K-S2, H1-6K-LS2, H1-6K-S2
Brands: SAJ
Batteries and BMS - Battery Management System 1
Battery model: B1-5.1-48
Control model: the first module will work as controller
Brands: SAJ
Batteries and BMS - Battery Management System 2
Battery model: US2000
Control model: 2P15S
Brands: PYLONTECH
Batteries and BMS - Battery Management System 3
Battery model: B4850 is basic module, the extensional model:
PowerDepot H2.5 (make up of 1 basic module B4850)
PowerDepot H5.0 (make up of 2 basic module B4850)
Powerbox F -2.5 (make up of 1 basic module B4850)
Powerbox F -5.0 (make up of 2 basic module B4850)
Powerbox F -7.5 (make up of 3 basic module B4850)
Powerbox F-10.0 (make up of 4 basic module B4850)
Control model: the first module will work as controller
Brands: Dyness
Batteries and BMS - Battery Management System 4
Battery model: LS 48V 2.4 kWh
Brands: Turbo Energy

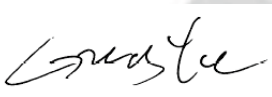
Inverter Firmware Version: Display board: V2.081; Control board: V1.311
BMS Firmware Version for system: V1142 (for BMS system 1); V2.4 (for BMS system 2);
POWER_Protect_1_201027DPBM(2)_1 (for BMS system 3)
Number of phases: Single-phase
Nominal power: See certificate for each model
Type: Bidirectional
CUS (useful capacity of the storage system): See certificate
Remark: The devices are capable to limit I_{dc} to 0.5% of the rated grid current

Verification of certificate with test report: 190619145GZU-001, Revision 2: 02 Sep 2021

Having assessed the test report 190619145GZU-001 Issued by laboratory:
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
In compliant with ISO/IEC 17025:2017
Accreditation number: CNAS L0220

Having examined the ISO 9001 certificate of the manufacturer No: U0019Q50075RIM issued by:
Zhongjian Certification Co., Ltd

The indicated products above are complied with CEI 0-21:2019-04: Reference technical rules for the connection of active and passive users to the LV electrical Utilities



Signature
Name: Grady Ye
Date: 09 September, 2021

Test Verification of Conformity

Verification Number: 210726096GZU-VOC001

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the regulation(s) listed on this verification at the time the tests were carried out. Other standards and Regulations may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant UKCA mark regulations are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Guangzhou Sanjing Electric Co., Ltd. No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China
Product Description:	Hybrid Solar Inverter
Models/Type References:	H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-4.6K-S2, H1-5K-LS2, H1-5K-S2, H1-6K-LS2, H1-6K-S2
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Brand Name:	SAJ
Relevant Standards/Regulations:	EN 61000-6-1:2007 EN 61000-6-3:2007+A1:2011 EN 61000-6-2:2005 EN 61000-6-4:2007+A1:2011 Electromagnetic Compatibility Regulations 2016
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	-
Test Report Number(s):	210726096GZU-001

Note: The latest version standards indicated in the technical file meets the requirements of the Regulation.

Additional information in Appendix.

Sky Zhu

Signature

Name: Sky Zhu

Position: Team Leader

Date: 04 August 2021

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 210726096GZU-VOC001

Ratings & Principle Characteristics:

Model	H1-3K-S2	H1-3.6K-S2	H1-4K-S2	H1-4.6K-S2 H1-4.6K-LS2	H1-5K-S2 H1-5K-LS2	H1-6K-S2 H1-6K-LS2
Max.PV voltage [V]	600V					
PV voltage range [V]	90-550					
PV Isc [A]	15 /15					
Max.input current [A]	12.5 / 12.5					
Battery parameters						
Rated DC voltage [V]	48					
DC voltage range [V]	42 – 58.5					
Max. Charging / discharging current [A]	60/60			60/60 (H1-4.6K-LS2) 100/100 (H1-4.6K-S2)	60/60 (H1-5K-LS2, H1-6K-LS2) 100/100 (H1-5K-S2, H1-6K-S2)	
Grid parameters						
Rated Output Power [W]	3000	3680	4000	4600	5000	6000
Max.Output Power [VA]	3000	3680	4000	4600	5000	6000
Rated Output Current [A]	13.1	16.0	17.4	20.0	21.8	26.1
Max Output Current [A]	14.4	16.0	19.2	20.9	24.0	26.1
Nominal Frequency	50Hz					
Power factor range	0.8Leading – 0.8 lagging					
AC Output [Back-up Mode]						
Rated Output Power [W]	3000			3000(H1-4.6K-LS2) 4600(H1-4.6K-S2)	3000 (H1-5K-LS2, H1-6K-LS2) 5000(H1-5K-S2, H1-6K-S2)	
Output Voltage [V]	230					
Output Frequency [Hz]	50/60					
Safety level	Class I					
Ingress Protection	IP 65					
Operation Ambient Temperature	-25℃ - +60℃					

Signature

Name: Sky Zhu
Position: Team Leader
Date: 04 August 2021

Test Verification of Conformity

Verification Number: 210716151GZU-VOC001

On the basis of the referenced test report(s), sample(s) tested of the below product have been found to comply with the standards harmonized with the regulation(s) listed on this verification at the time the tests were carried out. Other standards and Regulations may be relevant to the product. This verification is part of the full test report(s) and should be read in conjunction with it <them>.

Once compliance with all product relevant UKCA mark regulations are verified, including any relevant e.g. risk assessment and production control, the manufacturer may indicate compliance by signing a Declaration of Conformity themselves and applying the mark to products identical to the tested sample(s).

Applicant Name & Address:	Guangzhou Sanjing Electric Co., Ltd. No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China
Product Description:	Hybrid Solar Inverter
Ratings & Principle Characteristics:	See Appendix to Certificate of Conformity
Models/Type References:	H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-4.6K-S2, H1-5K-LS2, H1-5K-S2, H1-6K-LS2, H1-6K-S2
Brand Name:	SAJ
Relevant Standards/Regulations:	IEC 62109-1 Safety of Power Converter for use in Photovoltaic Power Systems Part 1: General requirements
Verification Issuing Office Name & Address:	Intertek Testing Services Shenzhen Ltd. Guangzhou Branch Room 02, & 101/E201/E301/E401/E501/E601/E701/E801 of Room 01 1-8/F., No. 7-2. Caipin Road, Science City, GETDD, Guangzhou, Guangdong, China
Date of Tests:	15 Apr 2020-15 Jul 2021
Test Report Number(s):	60404587 001

Additional information in Appendix.

Tommy

Signature

Name: Tommy Zhong
Position: Technical Manager
Date: 26 July 2021

APPENDIX: Test Verification of Conformity

This is an Appendix to Test Verification of Conformity Number: 210716151GZU-VOC001

Ratings & Principle Characteristics:

Model	H1-3K-S2	H1-3.6K-S2	H1-4K-S2	H1-4.6K-S2 H1-4.6K-LS2	H1-5K-S2 H1-5K-LS2	H1-6K-S2 H1-6K-LS2
Max.PV voltage [V]	600V					
PV voltage range [V]	90-550					
PV Isc [A]	15 /15					
Max.input current [A]	12.5 / 12.5					
Battery parameters						
Rated DC voltage [V]	48					
DC voltage range [V]	42 – 58.5					
Max. Charging / discharging current [A]	60/60			60/60 (H1-4.6K-LS2) 100/100 (H1-4.6K-S2)	60/60 (H1-5K-LS2, H1-6K-LS2) 100/100 (H1-5K-S2, H1-6K-S2)	
Grid parameters						
Rated Output Power [W]	3000	3680	4000	4600	5000	6000
Max.Output Power [VA]	3000	3680	4000	4600	5000	6000
Rated Output Current [A]	13.1	16.0	17.4	20.0	21.8	26.1
Max Output Current [A]	14.4	16.0	19.2	20.9	24.0	26.1
Nominal Frequency	50Hz					
Power factor range	0.8Leading – 0.8 lagging					
AC Output [Back-up Mode]						
Rated Output Power [W]	3000			3000(H1-4.6K-LS2) 4600(H1-4.6K-S2)	3000 (H1-5K-LS2, H1-6K-LS2) 5000(H1-5K-S2, H1-6K-S2)	
Output Voltage [V]	230					
Output Frequency [Hz]	50/60					
Safety level	Class I					
Ingress Protection	IP 65					
Operation Ambient Temperature	-25℃ - +60℃					

Signature

Name: Tommy Zhong
Position: Technical Manager
Date: 26 July 2021

ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

Compliance Document

No. D 077831 0019 Rev. 00

Holder of Certificate: **Guangzhou Sanjing Electric Co., Ltd.**
No.9, Lizhishan Road, Science City
510663 Guangzhou High-tech Zone, Guangdong
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(Hybrid Solar Inverter)

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290203078801

Date, 2021-09-10

(Billy Qiu)

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Product Service

Compliance Document

No. D 077831 0019 Rev. 00

Model(s): **H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-5K-LS2, H1-4.6K-S2, H1-5K-S2**

Parameters:

Model:	H1-3K-S2	H1-3.6K-S2	H1-4K-S2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5*2 Ad.c.		
PV I_{SC}	15*2 Ad.c.		
Battery input/output parameter			
Input voltage range	42~58.4 Vd.c.		
Maximum input/output voltage	58.4 Vd.c.		
Maximum input/output current	60 Ad.c.		
Grid parameter			
Rated voltage	230 Va.c.		
Rated frequency	50 Hz		
Rated current	13.1 Aa.c.	16.0 Aa.c.	17.4 Aa.c.
Maximum continuous current	13.6 Aa.c.	16.7 Aa.c.	18.2 Aa.c.
Rated output active power	3 kW	3.68 kW	4 kW
Power factor	0.98 leading to 0.98 lagging		
Protection class	Class I		
Back-up parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Maximum output active power	3 kW		

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Compliance Document

No. D 077831 0019 Rev. 00

Model:	H1-4.6K-LS2	H1-5K-LS2	H1-4.6K-S2	H1-5K-S2
PV input parameter				
Input voltage range	80~600 Vd.c.			
Maximum input voltage	600 Vd.c.			
Maximum input current	12.5*2 Ad.c.			
PV ISC	15*2 Ad.c.			
Battery input/output parameter				
Input voltage range	42~58.4 Vd.c.			
Maximum input/output voltage	58.4 Vd.c.			
Maximum input/output current	60 Ad.c.		100 Ad.c.	
Grid parameter				
Rated voltage	230 Va.c.			
Rated frequency	50 Hz			
Rated current	20.0 Aa.c.	20.0 Aa.c.	20.0 Aa.c.	20.0 Aa.c.
Maximum continuous current	20.9 Aa.c.	20.9 Aa.c.	20.9 Aa.c.	20.9 Aa.c.
Rated active power	4.6 kW	4.6 kW	4.6 kW	4.6 kW
Power factor	0.98 leading to 0.98 lagging			
Protection class	Class I			
Back-up parameter				
Rated output voltage	230 Va.c.			
Rated output frequency	50 Hz			
Maximum output active power	3 kW		4.6 kW	5 kW

Remark:
The utility interface of small-scale embedded generation is evaluated according to NRS 097-2-1:2017 edition 2.1.

Tested according to: NRS 097-2-1:2017 Edition 2.1

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ZERTIFIKAT ◆ CERTIFICATE ◆ 認證證書 ◆ СЕРТИФИКАТ ◆ CERTIFICADO ◆ CERTIFICAT

Product Service

Compliance Document

No. D 077831 0017 Rev. 00

Holder of Certificate: **Guangzhou Sanjing Electric Co., Ltd.**
No.9, Lizhishan Road, Science City
510663 Guangzhou High-tech Zone, Guangdong
PEOPLE'S REPUBLIC OF CHINA

Product: **Converter**
(Hybrid Inverter)

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290203078501

Date, 2021-07-21

(Billy Qiu)

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TÜV®

Product Service

Compliance Document

No. D 077831 0017 Rev. 00

Model(s): **H1-3K-S2, H1-3.6K-S2, H1-4K-S2, H1-4.6K-LS2, H1-4.6K-S2, H1-5K-LS2, H1-5K-S2**

Parameters:

Model:	H1-3K-S2	H1-3.6K-S2	H1-4K-S2
PV input parameter			
Input voltage range	80~600 Vd.c.		
Maximum input voltage	600 Vd.c.		
Maximum input current	12.5*2 Ad.c.		
PV I_{SC}	15*2 Ad.c.		
Battery input/output parameter			
Input voltage range	42~58.4 Vd.c.		
Maximum input/output voltage	58.4 Vd.c.		
Maximum input/output current	60 Ad.c.		
Grid parameter			
Rated output voltage	230 Va.c.		
Rated output frequency	50 Hz		
Rated output current	13.1 Aa.c.	16.0 Aa.c.	17.4 Aa.c.
Maximum continuous output current	13.6 Aa.c.	16.7 Aa.c.	18.2 Aa.c.
Rated output active power	3 kW	3.68 kW	4 kW
Power factor	>0.99		
Protection class	Class I		

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TÜV®

Product Service

Compliance Document

No. D 077831 0017 Rev. 00

Model:	H1-4.6K-LS2	H1-4.6K-S2	H1-5K-LS2	H1-5K-S2
PV input parameter				
Input voltage range	80~600 Vd.c.			
Maximum input voltage	600 Vd.c.			
Maximum input current	12.5*2 Ad.c.			
PV I_{SC}	15*2 Ad.c.			
Battery input/output parameter				
Input voltage range	42~58.4 Vd.c.			
Maximum input/output voltage	58.4 Vd.c.			
Maximum input/output current	60 Ad.c.	100 Ad.c.	60 Ad.c.	100 Ad.c.
Grid parameter				
Rated output voltage	230 Va.c.			
Rated output frequency	50 Hz			
Rated output current	20.0 Aa.c.	20.0 Aa.c.	21.8 Aa.c.	21.8 Aa.c.
Maximum continuous output current	20.9 Aa.c.	20.9 Aa.c.	22.7 Aa.c.	22.7 Aa.c.
Rated output active power	4.6 kW	4.6 kW	5 kW	5 kW
Power factor	>0.99			
Protection class	Class I			

Tested according to: C10/11:2021

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