

C E R T I F I C A T E
of Conformity
EC Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AE 50539095 0001

Report No.: CN21CTWO 001

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

Product: PV-Inverter
(Grid-connected PV Inverter)

Identification: R6-25K-T3-32 R6-30K-T3-32 R6-33K-T3-32
R6-36K-T3-32 R6-40K-T4-32 R6-50K-T4-32
R6-20K-T3-32-LV R6-25K-T4-32-LV R6-30K-T4-32-LV
Serial No.: n.a.
Remark: Refer to above-listed test report for details.

Tested acc. to: EN IEC 61000-6-2:2019
EN IEC 61000-6-4:2019

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. 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. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.

Date 02.04.2022



Certification Body


Tongle Lee

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Guangzhou Sanjing Electric Co.,
Ltd.

Date : 02.04.2022
Our ref. : AOFEL 02
Your ref.:

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

Ref : AE Certificate of Conformity EMC

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : AE 50539095 0001
Report No. : CN21CTWO 001

Dear Ladies and Gentlemen,

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

Tongle Lee

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

CERTIFICATE of Conformity



Registration No.: AK 50538790 0001

Report No.: CN22KIJ3 001

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

Product: **PV-Inverter**
Grid-Connected PV Inverter

Identification: Type Designation: R6-25K-T3-32, R6-30K-T3-32, R6-33K-T3-32,
R6-36K-T3-32, R6-40K-T4-32, R6-50K-T4-32
Serial No. : R6I4503J2142E01235
Firmware version: V1.020
Remark: Refer to test report CN22KIJ3 001 for details.

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.



Date **30.03.2022**

A handwritten signature in blue ink, appearing to be "A. Chen".
A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Guangzhou Sanjing Electric Co.,
Ltd.

Date : 30/03/2022
Our ref. : 02
Your ref.: 168346650

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

Ref : AK Certificate of Conformity

Type of Equipment : Grid-Connected PV Inverter
Model Designation : See Certificate
Certificate No. : AK 50538790 0001
Report No. : CN22KIJ3 001

Dear Ladies and Gentlemen,

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

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CERTIFICATE of Conformity



Registration No.: AK 50545463 0001

Report No.: CN22GPSM 001

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

Product: **PV-Inverter**
(Grid-connected PV inverter)

Identification: Type Designation: R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32,
R6-36K-T3-32, R6-33K-T3-32, R6-30K-T3-32,
R6-25K-T3-32
Serial No. : Engineering samples
Remark : Refer to test report CN22GPSM 001
for details.

Tested acc. to: IEC 61727:2004
IEC 62116:2014

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.



Date **25.05.2022**

A handwritten signature in blue ink, appearing to read "A. Chen".
A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Guangzhou Sanjing Electric Co.,
Ltd.

Date : 25/05/2022
Our ref. : 02
Your ref.: 168346650

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

Ref : AK Certificate of Conformity

Type of Equipment : Grid-connected PV inverter
Model Designation : See Certificate
Certificate No. : AK 50545463 0001
Report No. : CN22GPSM 001

Dear Ladies and Gentlemen,

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

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

CERTIFICATE

of Conformity
Low Voltage Directive 2014/35/EU

Registration No.: AN 50539979 0001

Report No.: CN220TXF 001

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

Product: PV-Inverter
(Grid-connected PV Inverter)

Identification: Type Designation: R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32,
R6-36K-T3-32, R6-33K-T3-32, R6-30K-T3-32,
R6-25K-T3-32, R6-30K-T4-32-LV,
R6-25K-T4-32-LV, R6-20K-T3-32-LV
Serial Number : Engineering samples
Remark : Refer to report CN220TXF 001 for details.

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with Annex I of Council Directive 2014/35/EU, referred to as the Low Voltage Directive. This certificate does not imply assessment of the series-production of the product and does not permit the use of a TÜV Rheinland mark of conformity. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to Annex IV of the Directive.



Date 20.04.2022


A. Chen

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

CE The CE marking may be used if all relevant and effective EC Directives are complied with.



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

Date : 20.04.2022
Our ref. : YY 02
Your ref.: 168346650

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

Ref : AN Certificate of Conf. Low Voltage D.

Type of Equipment : Grid-connected PV inverter
Model Designation : See Certificate
Certificate No. : AN 50539979 0001
Report No. : CN220TXF 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

证书的详细信息请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

C E R T I F I C A T E
of Conformity
EC Council Directive 2014/30/EU
Electromagnetic Compatibility

Registration No.: AE 50551010 0001

Report No.: CN21CTWO 002

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

Product: PV-Inverter
(Grid-connected PV Inverter)

Identification: R6-25K-T3-32 R6-30K-T3-32 R6-33K-T3-32
R6-36K-T3-32 R6-40K-T4-32 R6-50K-T4-32
R6-20K-T3-32-LV R6-25K-T4-32-LV R6-30K-T4-32-LV
R6-36K-T4-32
Serial No.: n.a.
Remark: Refer to above-listed test report for details.

Tested acc. to: EN IEC 61000-6-2:2019
EN IEC 61000-6-4:2019

This certificate of conformity is based on an evaluation of a sample of the above mentioned product. Technical Report and documentation are at the Licence Holder's disposal. This is to certify that the tested sample is in conformity with all provisions of Annex I of Council Directive 2014/30/EU. 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. The holder of the certificate is authorized to use this certificate in connection with the EC declaration of conformity according to the a.m. Directive.



Certification Body



Tongle Lee

Date 12.07.2022

TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg

Guangzhou Sanjing Electric Co.,
Ltd.

Date : 12.07.2022
Our ref. : AOFEL 02
Your ref.:

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

Ref : AE Certificate of Conformity EMC

Type of Equipment : Grid-connected PV Inverter
Model Designation : See Certificate
Certificate No. : AE 50551010 0001
Report No. : CN21CTWO 002

Dear Ladies and Gentlemen,

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

Tongle Lee

Enclosure

证书的详细资料请登陆www.certipedia.com查阅,或拨打我司客服热线800 999 3668 / 400 883 1300咨询

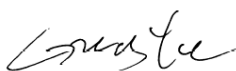
Certificado de Conformidad

Número de Certificado: CN-PV-220134

Conforme a los ensayos realizados, la muestra<s> del producto que se detalla a continuación se ajusta a los requisitos de la especificación<s>/norma<s> de referencia en el momento en que se realizaron los ensayos. Esto no implica que Intertek haya realizado ningún tipo de vigilancia o control de la(s) fabricación(es). El o los fabricantes se asegurarán de que el proceso de fabricación cumpla con los productos examinados mencionados en este certificado.

Solicitante:	Guangzhou Sanjing Electric Co., Ltd. No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China
Producto:	Inversor Fotovoltaico Conectado a la Red
Calificaciones y Características Principales:	Véase el apéndice del Certificado de Conformidad
Modelo:	R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32, R6-36K-T3-32, R6-33K-T3-32, R6-30K-T3-32, R6-25K-T3-32
Nombre de la Marca<s>:	
Producto Conforme con:	NTS-631:2020 Norma técnica para el control de conformidad de los módulos de generación de energía según el Reglamento UE 2016/631
Nombre y Dirección de la Oficina Emisora del Certificado:	Intertek Testing Services Ltd.Shanghai West Area, 2 nd Floor, No.707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P.R.China Acreditado por ACCREDIA de conformidad con la norma ISO/IEC 17065:2012
Informe de la Prueba<s> N°.:	220614056GZU-001

Información Complementaria en el Apéndice.



Firma

Responsable de la Certificación: Grady
Fecha: 06 de julio de 2022



PRD N° 306B

El presente Certificado está destinado al uso exclusivo del cliente de Intertek y se entrega en virtud del acuerdo entre Intertek y su Cliente. La responsabilidad y la obligación de Intertek se limita a los términos y condiciones del acuerdo. Intertek no asume ninguna responsabilidad ante ninguna parte, salvo ante el Cliente según el acuerdo, por cualquier pérdida, gasto, o daño ocasionado por el uso de este Certificado. Únicamente el Cliente está autorizado a conceder la copia o distribución de este Certificado. El uso del nombre de Intertek o de una de sus marcas para la venta o publicidad del material, producto, o servicio examinado debe ser aprobado previamente por escrito por Intertek.

APÉNDICE: Certificado de Conformidad

Este es un Apéndice del Certificado de Conformidad Número: CN-PV-220134.

Unidad / Tipo	R6-50K-T4-32	R6-40K-T4-32	R6-36K-T4-32	R6-36K-T3-32	R6-33K-T3-32	R6-30K-T3-32	R6-25K-T3-32
Versión de hardware / Número de serie (examinado)	Main Power board: V1.3; Control board: V1.0						
Versión del firmware / Versión del software (examinado)	V1.020						
Rango de Corriente Continua MPP a plena carga [V].....	530-900	500-900	500-900	540-900	520-900	500-900	480-900
Rango de entrada de Corriente Continua [V].....	180-1000						
Entrada máxima de Corriente Continua [A].....	32/32/32/32			32/32/32			
ISC PV [A]	38.4/38.4/38.4/38.4			38.4/38.4/38.4			
Tensión nominal de salida de CA [V] :	230/400V (3~ + N + PE, 50/60Hz)						
Salida máxima de Corriente Alterna [A].....	75,8	66,7	60,0	60,0	55,0	50,0	41,7
Potencia activa nominal de salida [kW]	50	40	36	36	33	30	25
Potencia máxima aparente / activa [kVA / kW]	50	44	39,6	39,6	36,3	33	27,5

El presente Certificado está destinado al uso exclusivo del cliente de Intertek y se entrega en virtud del acuerdo entre Intertek y su Cliente. La responsabilidad y la obligación de Intertek se limita a los términos y condiciones del acuerdo. Intertek no asume ninguna responsabilidad ante ninguna parte, salvo ante el Cliente según el acuerdo, por cualquier pérdida, gasto, o daño ocasionado por el uso de este Certificado. Únicamente el Cliente está autorizado a conceder la copia o distribución de este Certificado. El uso del nombre de Intertek o de una de sus marcas para la venta o publicidad del material, producto, o servicio examinado debe ser aprobado previamente por escrito por Intertek.

APÉNDICE: Certificado de Conformidad

Este es un Apéndice del Certificado de Conformidad Número: CN-PV-220134.

Requisito / Requirement	NTS	Tipo / Type	Cumplimiento / Complicant	Nombre Entidad Emisora / Name of issuing Entity	Ev.(*)
Modo regulación potencia-frecuencia limitado sobrefrecuencia (MRPFL-O) / Power-frequency regulation mode limited to overfrequency (MRPFL-O)	5.1	≥A	YES (TRF No.220614056GZ U-001)	Intertek	P
Modo regulación potencia-frecuencia limitado-subfrecuencia (MRPFL-U) / Power-frequency regulation mode limited to underfrequency (MRPFL-U)	5.2	≥C	NO APPLICABLE	--	--
Modo regulación potencia-frecuencia (MRPF) / Power-frequency regulation mode (MRPF)	5.3	≥C	NO APPLICABLE	--	--
Control de potencia-frecuencia / Frequency Control	5.4	≥C	NO APPLICABLE	--	--
Capacidad de control y el rango de control de la potencia activa en remote / Active Power Requirements	5.5	≥C	NO APPLICABLE	--	--
Emulación de inercia durante variaciones de frecuencia muy rápidas / Inertia Emulations	5.6	≥C	NO APPLICABLE	--	--
Capacidad de potencia reactiva a la capacidad máxima y por debajo / Reactive power capabilities at the EUT rated power and below	5.7	≥B	NO APPLICABLE	--	--
Modos de control de la potencia reactiva / Reactive power control modes	5.8	≥B	NO APPLICABLE	--	--
Control de amortiguamiento de oscilaciones / Control of oscillation damping	5.10	≥C	NO APPLICABLE	--	--
Capacidad para soportar huecos de tensión de los MPE conectados por debajo de 110 kV / Capability to withstand voltage grid faults for POC below 110 kV	5.11	≥B	NO APPLICABLE	--	--
Capacidad para soportar huecos de tensión de los MPE conectados por encima de 110 kV / Capability to withstand voltage grid faults for POC above 110 kV	5.11	D	NO APPLICABLE	--	--
Recuperación de la potencia activa después de una falta / Active power recovery after a grid fault	5.11	≥B	NO APPLICABLE	--	--
Inyección rápida de corriente de falta en el punto de conexión en caso de faltas trifásicas / Rapid current injection control	5.11	≥B	NO APPLICABLE	--	--
Capacidad de participar en el funcionamiento en isla / Islanding requirements	5.13	≥C	NO APPLICABLE	--	--
(*) Evaluado por / Evaluated by: P: Prueba de conformidad / Test of compliance S: Simulación de conformidad / Simulation of compliance					

Declaration: It is an accurate translation of the original document.

El presente Certificado está destinado al uso exclusivo del cliente de Intertek y se entrega en virtud del acuerdo entre Intertek y su Cliente. La responsabilidad y la obligación de Intertek se limita a los términos y condiciones del acuerdo. Intertek no asume ninguna responsabilidad ante ninguna parte, salvo ante el Cliente según el acuerdo, por cualquier pérdida, gasto, o daño ocasionado por el uso de este Certificado. Únicamente el Cliente está autorizado a conceder la copia o distribución de este Certificado. El uso del nombre de Intertek o de una de sus marcas para la venta o publicidad del material, producto, o servicio examinado debe ser aprobado previamente por escrito por Intertek.

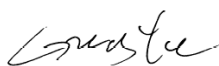
Certificate of Conformity

Certificate Number: CN-PV-220134

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

Applicant:	Guangzhou Sanjing Electric Co., Ltd. No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China
Product:	PV Grid-connected Inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32, R6-36K-T3-32, R6-33K-T3-32, R6-30K-T3-32, R6-25K-T3-32
Brand Name<s>:	
Product Complies with:	NTS-631:2020 Technical standard for monitoring the compliance of power generating modules according to EU Regulation 2016/631
Certificate Issuing Office Name & Address:	Intertek Testing Services Ltd. Shanghai West Area, 2 nd Floor, No. 707, Zhangyang Road China (Shanghai) Pilot Free Trade Zone, Shanghai, P. R. China Accredited by ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	220614056GZU-001

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 06 July 2022



PRD N° 306B

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220134.

Unit / Type	R6-50K-T4-32	R6-40K-T4-32	R6-36K-T4-32	R6-36K-T3-32	R6-33K-T3-32	R6-30K-T3-32	R6-25K-T3-32
Hardware version / Serial No. (tested).....	Main Power board: V1.3; Control board: V1.0						
Firmware version / Software version (tested)	V1.020						
Full-load MPP DC voltage range [V]:	530-900	500-900	500-900	540-900	520-900	500-900	480-900
Input DC voltage range [V].....	180-1000						
Max. Input DC current [A]	32/32/32/32			32/32/32			
ISC PV [A]	38.4/38.4/38.4/38.4			38.4/38.4/38.4			
Nominal output AC voltage [V]	230/400V (3~ + N + PE, 50/60Hz)						
Max. Output AC current [A]	75,8	66,7	60,0	60,0	55,0	50,0	41,7
Nominal active output power [kW] :	50	40	36	36	33	30	25
Max. apparent / active output power [kVA / kW].....	50	44	39,6	39,6	36,3	33	27,5

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220134.

Requisito / Requirement	NTS	Tipo / Type	Cumplimiento / Complicant	Nombre Entidad Emisora / Name of issuing Entity	Ev. (*)
Modo regulación potencia-frecuencia limitado sobrefrecuencia (MRPFL-O) / Power-frequency regulation mode limited to overfrequency (MRPFL-O)	5.1	≥A	YES (TRF No. 220614056GZU-001)	Intertek	P
Modo regulación potencia-frecuencia limitado-subfrecuencia (MRPFL-U) / Power-frequency regulation mode limited to underfrequency (MRPFL-U)	5.2	≥C	NO APPLICABLE	--	--
Modo regulación potencia-frecuencia (MRPF) / Power-frequency regulation mode (MRPF)	5.3	≥C	NO APPLICABLE	--	--
Control de potencia-frecuencia / Frequency Control	5.4	≥C	NO APPLICABLE	--	--
Capacidad de control y el rango de control de la potencia activa en remote / Active Power Requirements	5.5	≥C	NO APPLICABLE	--	--
Emulación de inercia durante variaciones de frecuencia muy rápidas / Intertia Emualtions	5.6	≥C	NO APPLICABLE	--	--
Capacidad de potencia reactiva a la capacidad máxima y por debajo / Reactive power capabilities at the EUT rated power and below	5.7	≥B	NO APPLICABLE	--	--
Modos de control de la potencia reactiva / Reactive power control modes	5.8	≥B	NO APPLICABLE	--	--
Control de amortiguamiento de oscilaciones / Control of oscillation damping	5.10	≥C	NO APPLICABLE	--	--
Capacidad para soportar huecos de tensión de los MPE conectados por debajo de 110 kV / Capability to withstand voltage grid faults for POC below 110 kV	5.11	≥B	NO APPLICABLE	--	--
Capacidad para soportar huecos de tensión de los MPE conectados por encima de 110 kV / Capability to withstand voltage grid faults for POC above 110 kV	5.11	D	NO APPLICABLE	--	--
Recuperación de la potencia activa después de una falta / Active power recovery after a grid fault	5.11	≥B	NO APPLICABLE	--	--
Inyección rápida de corriente de falta en el punto de conexión en caso de faltas trifásicas) simétricas / Rapid current injection control	5.11	≥B	NO APPLICABLE	--	--
Capacidad de participar en el funcionamiento en isla / Islanding requirements	5.13	≥C	NO APPLICABLE	--	--
(*) Evaluado por / Evaluated by: P: Prueba de conformidad / Test of compliance S: Simulación de conformidad / Simulation of compliance					

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Verificación de la conformidad de la prueba

N.º de verificación: 220825089GZU-VOC008

En base de los informes mencionados sobre las pruebas, se ha comprobado que las muestras probadas del siguiente producto cumplieron con las normas armonizadas con las directivas enumeradas en esta verificación, al momento de la realización de las pruebas. Otras normas y directivas pueden aplicar con el producto. Esta verificación forma parte del informe de pruebas completo y debe leerse junto con él <ellos>.

Una vez que se haya verificado el cumplimiento **CE** de todas las directivas de marca pertinentes al producto, incluyendo las evaluaciones de riesgos y control de producción pertinentes, el fabricante podrá otorgar su conformidad con su firma en una declaración de conformidad, y aplicando la marca a productos idénticos a las muestras probadas.

Nombre y dirección del solicitante:	Guangzhou Sanjing Electric Co., Ltd. No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China
Descripción del producto:	Inversor PV conectado a red eléctrica
Características de potencia y principios:	Consulte el APÉNDICE: Verificación de la conformidad de las pruebas
Referencias de modelos/tipo:	R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32, R6-36K-T3-32, R6-33K-T3-32, R6-30K-T3-32, R6-25K-T3-32, R6-30K-T4-32-LV, R6-25K-T4-32-LV, R6-20K-T3-32-LV
Nombre de la marca:	SAJI
Normas/Directivas relevantes:	IEC/EN 62109-1: 2010 Seguridad de convertidor de energía para usarse con los Sistemas de Energía Fotovoltaicos Parte 1: Requisitos generales IEC/EN 62109-2:2011 Seguridad de los convertidores de energía para usarse con los Sistemas de Energía Fotovoltaicos- Parte 2: Requisitos particulares para inversores De conformidad con la Directiva de Baja Tensión 2014/35/EU
Nombre y dirección de la oficina a cargo de la verificación:	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
Fecha de las pruebas:	7 de diciembre de 2021 - 7 de abril de 2022
Número(s) de informe de prueba:	CN22SWUP 001, tested and issued by TUV Rheinland (Shanghai) Co., Ltd.
Información adicional en el Apéndice.	

Jason Fu

Firma

Nombre: Jason Fu

Posición: Supervisor

Fecha: 06 de septiembre de 2022



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APÉNDICE: Verificación de la conformidad de la prueba

Este es un apéndice para la verificación del testeo del número de conformidad: 220825089GZU-VOC008

Características de potencia y principios:

Modelo	R6-50K-T4-32	R6-40K-T4-32	R6-36K-T4-32	R6-36K-T3-32	R6-33K-T3-32
Tensión PV máx.	1100Vdc				
Tensión MPPT	180-1000Vdc				
Entrada máxima corriente	32A*4			32A*3	
PV Isc	38.4A*4			38.4A*3	
Tensión nominal de salida	3/N/PE, 230Vac/400Vac				
Frecuencia nominal de salida	50/60Hz				
Corriente de salida máx.	75.8A	66.7A	60.0A	60.0A	55.0A
Energía nominal de salida	50.0KW	40.0KW	36.0KW	36.0KW	33.0KW
Energía aparente máx.	50.0KVA	44.0KVA	39.6KVA	39.6KVA	36.3KVA
Rango del factor de potencia	0.8Leading~0.8Lagging				
Nivel de seguridad	Class I				
Protección contra el ingreso	IP 65				
Temperatura ambiente de funcionamiento	-25°C - +60°C (>45°C with derating)				
Firmware	V1.020				

Jason Fu

Firma

Nombre: Jason Fu

Posición: Supervisor

Fecha: 06 de septiembre de 2022



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APÉNDICE: Verificación de la conformidad de la prueba

Este es un apéndice para la verificación del testeo del número de conformidad: 220825089GZU-VOC008

Características de potencia y principios:

Modelo	R6-30K-T3-32	R6-25K-T3-32	R6-30K-T4-32-LV	R6-25K-T4-32-LV	R6-20K-T3-32-LV
Tensión PV máx.	1100Vdc				
Tensión MPPT	180-1000Vdc				
Entrada máxima corriente	32A*3		32A*4		32A*3
PV Isc	38.4A*3		38.4A*4		38.4A*3
Tensión nominal de salida	3/N/PE, 230Vac/400Vac		3/N/PE, 127Vac/220Vac		
Frecuencia nominal de salida	50/60Hz				
Corriente de salida máx.	50.0A	41.7A	78.7A	72.2A	57.7A
Energía nominal de salida	30.0KW	25.0KW	30.0KW	25.0KW	20.0KW
Energía aparente máx.	33.0KVA	27.5KVA	30.0KVA	27.5KVA	22.0KVA
Rango del factor de potencia	0.8Leading~0.8Lagging				
Nivel de seguridad	Class I				
Protección contra el ingreso	IP 65				
Temperatura ambiente de funcionamiento	-25°C - +60°C (>45°C with derating)				
Firmware	V1.020				

Jason Fu

Firma

Nombre: Jason Fu

Posición: Supervisor

Fecha: 06 de septiembre de 2022

Declaration: It is an accurate translation of the original document.



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Verificación de Ensayo de Conformidad

Número de Verificación: 220825091GZU-VOC008

Sobre la base de el(los) informe(s) de ensayo referenciado(s), se ha comprobado que la(s) muestra(s) ensayada(s) del producto indicado a continuación cumple(n) con los estándares armonizados con las directivas enumeradas en esta verificación en el momento en que se realizaron los ensayos. Otros estándares y otras directivas pueden ser pertinentes para el producto. Esta verificación forma parte de el(los) informe(s) de ensayo completo(s) y debe leerse junto con ellos. Esta verificación sustituye a la anterior.

Una vez verificada la conformidad con todas las directivas de la marca  pertinentes para el producto, incluida cualquier evaluación de riesgos y control de producción pertinente, el fabricante puede indicar la conformidad firmando él mismo una Declaración de Conformidad y aplicando la marca a productos idénticos a la(s) muestra(s)

Nombre y Dirección del Solicitante:	Guangzhou Sanjing Electric Co., Ltd. No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone, Guangdong, P.R.China
Descripción del Producto:	Inversor PV conectado a la Red
Referencias de Modelos/Tipo:	R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32, R6-36K-T3-32, R6-33K-T3-32, R6-30K-T3-32, R6-25K-T3-32, R6-30K-T4-32-LV, R6-25K-T4-32-LV, R6-20K-T3-32-LV
Calificaciones y Características Principales:	Ver apéndice
Nombre de la Marca:	
Estándares/Directivas Pertinentes:	EN IEC 61000-6-4:2019 EN IEC 61000-6-2:2019 EMC Directive 2014/30/EU
Nombre & Dirección de la Oficina Emisora de la Verificación:	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
Fecha de Ensayos:	-
Número(s) de Informe de Ensayo:	220825091GZU-008
Información Adicional en el Apéndice.	

Firma



Nombre: Sky Zhu

Posición: Jefe de equipo

Fecha: 16 de septiembre de 2022



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APÉNDICE: Verificación de Ensayo de Conformidad

Éste es un Apéndice de la Verificación de Ensayo de Conformidad N°: 220825091GZU-VOC008

Calificaciones y Características Principales:

Modelo	R6-50K-T4-32	R6-40K-T4-32	R6-36K-T4-32	R6-36K-T3-32	R6-33K-T3-32
Tensión Máx. PV	1100Vdc				
Tensión MPPT	180-1000Vdc				
Corriente Máx. de Entrada	32A*4			32A*3	
PV Isc	38.4A*4			38.4A*3	
Tensión Nominal de Salida	3/N/PE, 230Vac/400Vac				
Frecuencia Nominal de Salida	50/60Hz				
Corriente Máx. de Salida	75.8A	66.7A	60.0A	60.0A	55.0A
Potencia Nominal de Salida	50.0KW	40.0KW	36.0KW	36.0KW	33.0KW
Potencia Aparente Máx.	50.0KVA	44.0KVA	39.6KVA	39.6KVA	36.3KVA
Rango del Factor de Potencia	0.8Leading~0.8Lagging				
Nivel de Seguridad	Class I				
Grado de Protección	IP 65				
Temperatura Ambiente de Funcionamiento	-25℃ - +60℃ (>45℃ with derating)				
Firmware	V1.020				

Sky Zhu

Firma

Nombre: Sky Zhu

Posición: Jefe de equipo

Fecha: 16 de septiembre de 2022



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APÉNDICE: Verificación de Ensayo de Conformidad

Éste es un Apéndice de la Verificación de Ensayo de Conformidad N°: 220825091GZU-VOC008

Calificaciones y
Características
Principales:

Modelo	R6-30K-T3-32	R6-25K-T3-32	R6-30K-T4-32-LV	R6-25K-T4-32-LV	R6-20K-T3-32-LV
Tensión Máx. PV	1100Vdc				
Tensión MPPT	180-1000Vdc				
Corriente Máx. de Entrada	32A*3		32A*4		32A*3
PV Isc	38.4A*3		38.4A*4		38.4A*3
Tensión Nominal de Salida	3/N/PE, 230Vac/400Vac		3/N/PE, 127Vac/220Vac		
Frecuencia Nominal de Salida	50/60Hz				
Corriente Máx. de Salida	50.0A	41.7A	78.7A	72.2A	57.7A
Potencia Nominal de Salida	30.0KW	25.0KW	30.0KW	25.0KW	20.0KW
Potencia Aparente Máx.	33.0KVA	27.5KVA	30.0KVA	27.5KVA	22.0KVA
Rango del Factor de Potencia	0.8Leading~0.8Lagging				
Nivel de Seguridad	Class I				
Grado de Protección	IP 65				
Temperatura Ambiente de Funcionamiento	-25°C - +60°C (>45°C with derating)				
Firmware	V1.020				

Sky Zhu

Firma

Nombre: Sky Zhu

Posición: Jefe de equipo

Fecha: 16 de septiembre de 2022

Declaration: It is an accurate translation of the original document.



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Test Report

Technical standard for monitoring the compliance of power generating modules according to EU Regulation 2016/631

For the unit(s) R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32, R6-36K-T3-32,
R6-33K-T3-32, R6-30K-T3-32, R6-25K-T3-32

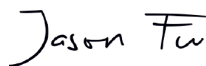
Test report no 220614056GZU-001

Date 2022-6-29

Test report number: 220614056GZU-001
Date of issue: 2022-6-29
Total number of pages: 30 pages
Testing laboratory: Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
Address: 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
Applicant's name: Guangzhou Sanjing Electric Co., Ltd.
Address: No.9, Lizhishan Road, Science City, Guangzhou High-tech Zone,
Guangdong, P.R.China
Test specification
Standard: NTS-631:2020
Type approval for Type A
Test report form number: NTS-631_V2.0
Test report form(s) originator: Intertek
Master TRF: Dated 2022-06-24
Test item description: PV Grid-connected Inverter
Trademark: 
Manufacturer: Same as applicant
Factory: Same as applicant
Model / Type reference: R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32, R6-36K-T3-32,
R6-33K-T3-32, R6-30K-T3-32, R6-25K-T3-32
Technical data: See section 3.1.1 on p.5
Testing location / 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
Dates of testing: 2022-6-14 – 2022-6-24

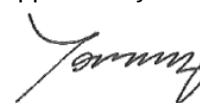
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Test reports without signature are not valid.

Tested by



Jason Fu
Supervisor

Approved by



Tommy Zhong
Technical Manager

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1 General information of test report

1.1 Revision history

Revision	Date	Editor	Modification / Change	Status
1	2022-6-29	Jason Fu	Initial report was written	active

2 General remarks for documentation

The test results presented in this report relate only to the object(s) tested.

Throughout this report a ☒ comma ',' / ☐ point '.' is used as decimal separator and a ☐ point '.' / ☐ comma ',' as thousands separator.

The following **suffixes/indices** are used for variables in tables and figures:

0,2	gliding average values over 200 milliseconds
10	gliding average values over 10 seconds
60	gliding average values over 60 seconds
600	gliding average values over 10 minutes
+	positive sequence system values
-	negative sequence system values
0	zero sequence system values
1	fundamental component (main frequency). In case of power values (P, Q, S) this is the sum of the 3 phase values
Lx	index of phase x
LxLy	phase-to-phase voltages of phase x and phase y
s	apparent
p	active
q	reactive

Abbreviations

AC	:	Alternating Current
DC	:	Direct Current
EUT	:	Equipment Under Test
MP	:	Measurement Point
MPP	:	Maximum Power Point
N ₁₀	:	Maximum number of switching operations within a time period of 10 minutes
N ₁₂₀	:	Maximum number of switching operations within a time period of 120 minutes
PGU	:	Power Generating Unit
PGS	:	Power Generating System
PCC	:	Point of Common Coupling (grid connection point)
THC	:	Total Harmonic Current Distortion
THDS _U	:	Total demand distortions of voltage harmonics

General remarks for testing

3.1 General product information

3.1.1 Technical data of the unit(s)

Unit / Type :	R6-50K-T4-32	R6-40K-T4-32	R6-36K-T4-32	R6-36K-T3-32	R6-33K-T3-32	R6-30K-T3-32	R6-25K-T3-32
Hardware version / Serial No. (tested) .. :	Main Power board: V1.3; Control board: V1.0						
Firmware version / Software version (tested) :	V1.020						
Full-load MPP DC voltage range [V] :	530-900	500-900	500-900	540-900	520-900	500-900	480-900
Input DC voltage range [V] :	180-1000						
Max. Input DC current [A] :	32/32/32/32			32/32/32			
ISC PV [A] :	38.4/38.4/38.4/38.4			38.4/38.4/38.4			
Nominal output AC voltage [V] :	230/400V (3~ + N + PE, 50/60Hz)						
Max. Output AC current [A] :	75,8	66,7	60,0	60,0	55,0	50,0	41,7
Nominal active output power [kW] :	50	40	36	36	33	30	25
Max. apparent / active output power [kVA / kW] :	50	44	39,6	39,6	36,3	33	27,5

The solar inverter converts DC voltage, generated by photovoltaic modules, into AC voltage.
The units are three-phase.

Equipment mobility

Permanent connection

Operating condition.....

Continuous

Class of equipment.....

Class I

Protection against ingress of water

IP65 according to EN 60529

Mass of equipment [kg]

37,5kg

3.1.2 Description of the differences of the models within the product series

The models R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32, R6-36K-T3-32, R6-33K-T3-32, R6-30K-T3-32, R6-25K-T3-32 are same as the construction and hardware excepted the different as below table and the output power are different with adjusted by software. Details can be found below:

Model Parts	R6-50K-T4-32	R6-40K-T4-32	R6-36K-T4-32	R6-36K-T3-32	R6-33K-T3-32	R6-30K-T3-32	R6-25K-T3-32
BOOST IGBT	IKQ75N120CH3*4 FGY75T120SQDN*4			IKQ75N120CH3*3 FGY75T120SQDN*3			
INV IGBT	IKQ75N120CH3*12/ FGY75T120SQDN*12/ IKQ100N60T *6	IKQ75N120CH3*12/ FGY75T120SQDN*12/ IKW75N60T*6/ 75T65MQD*6			IKQ50N120CH3*12/ IKQ75N120CH3*12/ FGY75T120SQDN*12/ IKW75N60T*6/ 75T65MQD*6		
BOOST Inductor	4pcs			3pcs			

3.1.3 Copy of marking plate

SAJ Guangzhou Sanjing Electric Co., Ltd.
Tel: +86(20)66608588 Fax: +86(20)66608589
Web: www.saj-electric.com E-mail: service@saj-electric.com

Grid-connected PV Inverter
Type: R6-25K-T3-32

PV Input	
Max. Input Voltage	1100Vdc
MPPT Voltage Range	180V-1000Vdc
Max. Input Current	32/32/32Adc
Short Circuit Current	38.4/38.4/38.4Adc

AC Output	
Rated Voltage	3/N/PE 220/230/380/400V
Rated Current	3*36.2A
Max. Continuous Current	3*41.7A
Rated Frequency	50/60Hz
Rated Power	25000W
Max. Apparent Power	27500VA
Power Factor	0.8L...1...0.8c

Operating Temperature Range: -40℃~60℃
Protective Class: I
Overvoltage Category: II (DC), III (AC)
Ingress protection: IP65
Inverter Topology: Non-isolated

EN 50549-1, IEC62109-1/2, EN61000-6-1/2/3/4,
PPDS, RD1669, RD413, UNE217001
IEC 62116, IEC61727, G98/G99, CEI 0-21, C10/11



S/N

P/C

Importer: MADE IN CHINA

SAJ Guangzhou Sanjing Electric Co., Ltd.
Tel: +86(20)66608588 Fax: +86(20)66608589
Web: www.saj-electric.com E-mail: service@saj-electric.com

Grid-connected PV Inverter
Type: R6-30K-T3-32

PV Input	
Max. Input Voltage	1100Vdc
MPPT Voltage Range	180V-1000Vdc
Max. Input Current	32/32/32Adc
Short Circuit Current	38.4/38.4/38.4Adc

AC Output	
Rated Voltage	3/N/PE 220/230/380/400V
Rated Current	3*43.5A
Max. Continuous Current	3*50A
Rated Frequency	50/60Hz
Rated Power	30000W
Max. Apparent Power	33000VA
Power Factor	0.8L...1...0.8c

Operating Temperature Range: -40℃~60℃
Protective Class: I
Overvoltage Category: II (DC), III (AC)
Ingress protection: IP65
Inverter Topology: Non-isolated

EN 50549-1, IEC62109-1/2, EN61000-6-1/2/3/4,
PPDS, RD1669, RD413, UNE217001
IEC 62116, IEC61727, G98/G99, CEI 0-21, C10/11



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Web: www.saj-electric.com E-mail: service@saj-electric.com

Grid-connected PV Inverter
Type: R6-33K-T3-32

PV Input	
Max. Input Voltage	1100Vdc
MPPT Voltage Range	180V-1000Vdc
Max. Input Current	32/32/32Adc
Short Circuit Current	38.4/38.4/38.4Adc

AC Output	
Rated Voltage	3/N/PE 220/230/380/400V
Rated Current	3*47.8A
Max. Continuous Current	3*55A
Rated Frequency	50/60Hz
Rated Power	33000W
Max. Apparent Power	36300VA
Power Factor	0.8L...1...0.8c

Operating Temperature Range: -40℃~60℃
Protective Class: I
Overvoltage Category: II (DC), III (AC)
Ingress protection: IP65
Inverter Topology: Non-isolated

EN 50549-1, IEC62109-1/2, EN61000-6-1/2/3/4,
PPDS, RD1669, RD413, UNE217001
IEC 62116, IEC61727, G98/G99, CEI 0-21, C10/11



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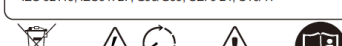
Grid-connected PV Inverter
Type: R6-36K-T3-32

PV Input	
Max. Input Voltage	1100Vdc
MPPT Voltage Range	180V-1000Vdc
Max. Input Current	32/32/32Adc
Short Circuit Current	38.4/38.4/38.4Adc

AC Output	
Rated Voltage	3/N/PE 220/230/380/400V
Rated Current	3*52.2A
Max. Continuous Current	3*60A
Rated Frequency	50/60Hz
Rated Power	36000W
Max. Apparent Power	39600VA
Power Factor	0.8L...1...0.8c

Operating Temperature Range: -40℃~60℃
Protective Class: I
Overvoltage Category: II (DC), III (AC)
Ingress protection: IP65
Inverter Topology: Non-isolated

EN 50549-1, IEC62109-1/2, EN61000-6-1/2/3/4,
PPDS, RD1669, RD413, UNE217001
IEC 62116, IEC61727, G98/G99, CEI 0-21, C10/11



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Tel: +86(20)66808588 Fax: +86(20)66808589
Web: www.saj-electric.com E-mail: service@saj-electric.com

Grid-connected PV Inverter
Type: R6-36K-T4-32

PV Input	
Max. Input Voltage	1100Vdc
MPPT Voltage Range	180V-1000Vdc
Max. Input Current	32/32/32/32Adc
Short Circuit Current	38.4/38.4/38.4/38.4Adc

AC Output	
Rated Voltage	3/N/PE 220/230/380/400V
Rated Current	3*52.2A
Max. Continuous Current	3*60A
Rated Frequency	50/60Hz
Rated Power	36000W
Max. Apparent Power	39600VA
Power Factor	0.8i...1...0.8c

Operating Temperature Range: -40℃~60℃
Protective Class: I
Overvoltage Category: II (DC), III (AC)
Ingress protection: IP65
Inverter Topology: Non-isolated

EN 50549-1, IEC62109-1/2, EN61000-6-1/2/3/4,
PPDS, RD1669, RD413, UNE217001
IEC 62116, IEC61727, G98/G99, CEI 0-21, C10/11



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Web: www.saj-electric.com E-mail: service@saj-electric.com

Grid-connected PV Inverter
Type: R6-40K-T4-32

PV Input	
Max. Input Voltage	1100Vdc
MPPT Voltage Range	180V-1000Vdc
Max. Input Current	32/32/32/32Adc
Short Circuit Current	38.4/38.4/38.4/38.4Adc

AC Output	
Rated Voltage	3/N/PE 220/230/380/400V
Rated Current	3*58A
Max. Continuous Current	3*66.7A
Rated Frequency	50/60Hz
Rated Power	40000W
Max. Apparent Power	44000VA
Power Factor	0.8i...1...0.8c

Operating Temperature Range: -40℃~60℃
Protective Class: I
Overvoltage Category: II (DC), III (AC)
Ingress protection: IP65
Inverter Topology: Non-isolated

EN 50549-1, IEC62109-1/2, EN61000-6-1/2/3/4,
PPDS, RD1669, RD413, UNE217001
IEC 62116, IEC61727, G98/G99, CEI 0-21, C10/11



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Tel: +86(20)66808588 Fax: +86(20)66808589
Web: www.saj-electric.com E-mail: service@saj-electric.com

Grid-connected PV Inverter
Type: R6-50K-T4-32

PV Input	
Max. Input Voltage	1100Vdc
MPPT Voltage Range	180V-1000Vdc
Max. Input Current	32/32/32/32Adc
Short Circuit Current	38.4/38.4/38.4/38.4Adc

AC Output	
Rated Voltage	3/N/PE 220/230/380/400V
Rated Current	3*72.5A
Max. Continuous Current	3*75.8A
Rated Frequency	50/60Hz
Rated Power	50000W
Max. Apparent Power	50000VA
Power Factor	0.8i...1...0.8c

Operating Temperature Range: -40℃~60℃
Protective Class: I
Overvoltage Category: II (DC), III (AC)
Ingress protection: IP65
Inverter Topology: Non-isolated

EN 50549-1, IEC62109-1/2, EN61000-6-1/2/3/4,
PPDS, RD1669, RD413, UNE217001
IEC 62116, IEC61727, G98/G99, CEI 0-21, C10/11



S/N

P/C

Importer: MADE IN CHINA

3.1.4 Description of the power circuit

The equipment is a three-phase public interactive photovoltaic inverter, which will be installed and connected to the grid after installation.

It contains filters for smoothing output voltage and EMC, switching and control circuits. Electronic circuits are mounted on multiple PCBs interconnected by appropriate connectors and wires.

The power board including the electronic components is mounted on the radiator and grounded through metal screws and spring washers.

Communication ports include USB, DRM and RS485, which are connected to a monitor to monitor the status of the inverter through proprietary software.

PV input combiner with 3 or 4 MPPT tracers, and each MPPT tracer includes 4 PV input terminals (2 PV+ and 2PV-).

The AC output is directly connected to the power grid, and the protective grounding is provided by a dedicated grounding terminal.

The grid-connected protection combines the two series of relays as a redundant construction to ensure that the inverter can independently disconnect from the grid when the relay fails.

In the case of a fault defined in this standard, after the DSP receives an abnormal signal from the relevant protection detection circuit, the relay will act to automatically disconnect the active circuit of the photovoltaic inverter from the grid, when any grid fault occurs, the master DSP and the slave DSP have the ability to disconnect from the grid independently,

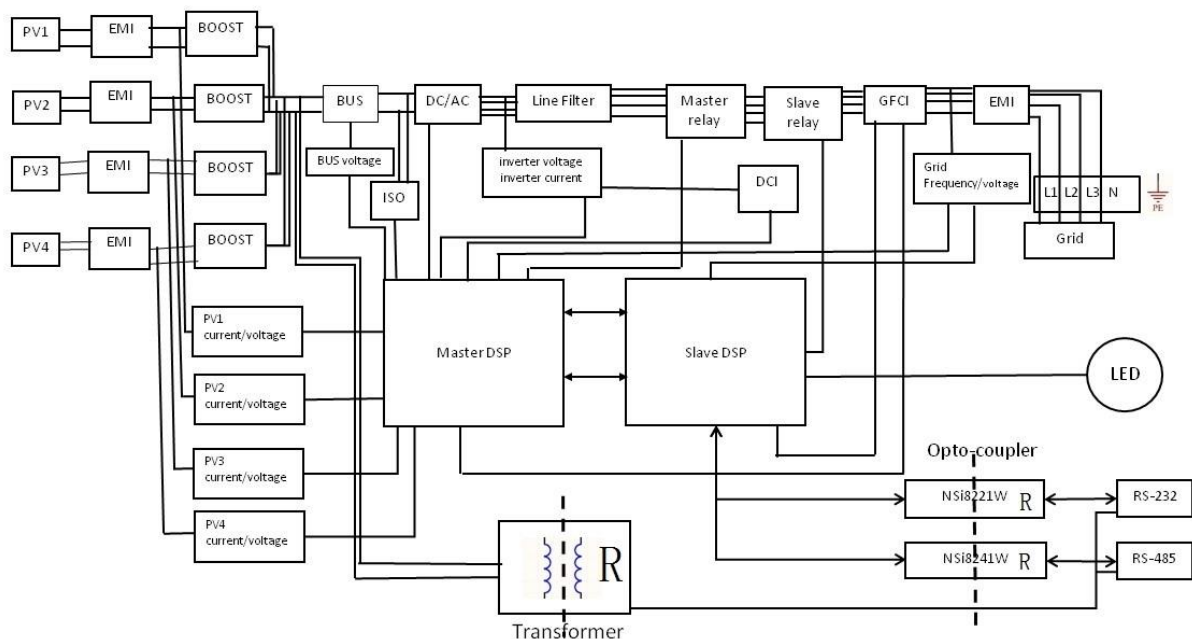


Figure 1 – Block diagram of the power circuit

3.2 Scope of measurements

NTS SECTION	CHAPTER OF THE STANDARD	TYPE ⁽¹⁾	RESULT
	NTS		
--	Frequency Requirements	--	P
--	Active power feed-in as a function of frequency	--	P
5.1	Power-frequency regulation mode limited to overfrequency (MRPFL-O)	≥A	P
5.2	Power-frequency regulation mode limited to underfrequency (MRPFL-U)	≥C	N/A
5.3	Power-frequency sensitive mode (MRPF)	≥C	N/A
5.4	Power-Frequency Control	≥C	N/A
5.5	Active Power Requirements	≥C	N/A
5.5	Power gradient Constraint	≥C	N/A
5.5	Absolute Production Constraint	≥C	N/A
5.6	Synthetic inertia	≥C	N/A
--	Reactive Power Requirements	--	N/A
5.7	Reactive power capabilities at the EUT rated power and below	≥B	N/A
5.8	Reactive power control modes	≥B	N/A
5.10	Control of oscillation damping	≥C	N/A
--	Robustness Requirements	--	N/A
5.11	Capability to withstand voltage grid faults for POC below 110 kV	≥B	N/A
5.11	Capability to withstand voltage grid faults for POC above 110 kV	D	N/A
5.11	Rapid current injection control	≥B	N/A
5.11	Active power recovery after a grid fault	≥B	N/A
5.13	Islanding requirements	≥C	N/A

3.3 Reference values

Representative sample for testing

Reference values for the p.u. or percentage calculations:

	R6-50K-T4-32
Rated active power, P_n [kW]	50,0
Max. apparent and active output power, S_{max} / P_{max} [kVA]	50,0
Rated voltage (phase-to-phase), U_n [V]	400V
Rated current, I_n [A]	72,5
Maximum current, I_{max} [A]	75,8

3.4 Measurement setup

Tests documented in this test report were performed using the following test configuration:

- ☐ Measurements in the field on real grid
- ☐ Test bench tests on real grid
- ☒ Test bench tests on an AC grid simulator

The PGU is connected on the DC-side to a PV-simulator and on the AC-side to an AC-grid simulator. The AC-grid simulator is operated with nominal conditions of $U_n = 230$ (phase-to-neutral) and $f_n = 50$ Hz unless stated otherwise by the applied test requirement.

Available primary power is modified by adapting the short circuit current (I_{sc}) value of the I-V curve. Following example shows a PV-curve ($I_{sc} = 61,31$ A, $U_{oc} = 719,3$ V) simulated according to EN50530:

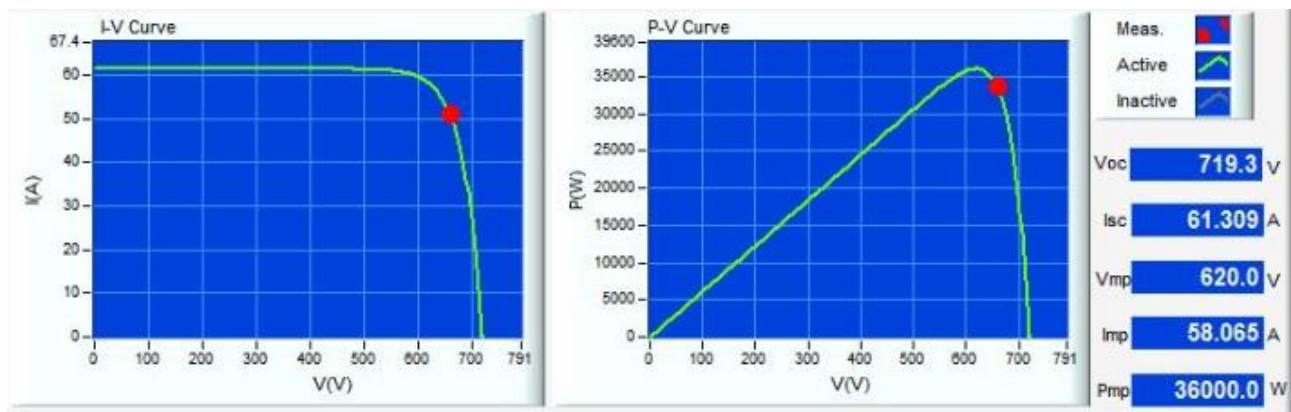


Figure 2 – DC characteristics for testing

The measurement setup is shown in Figure 3. The specific test and measurement devices are stated in section 3.5.

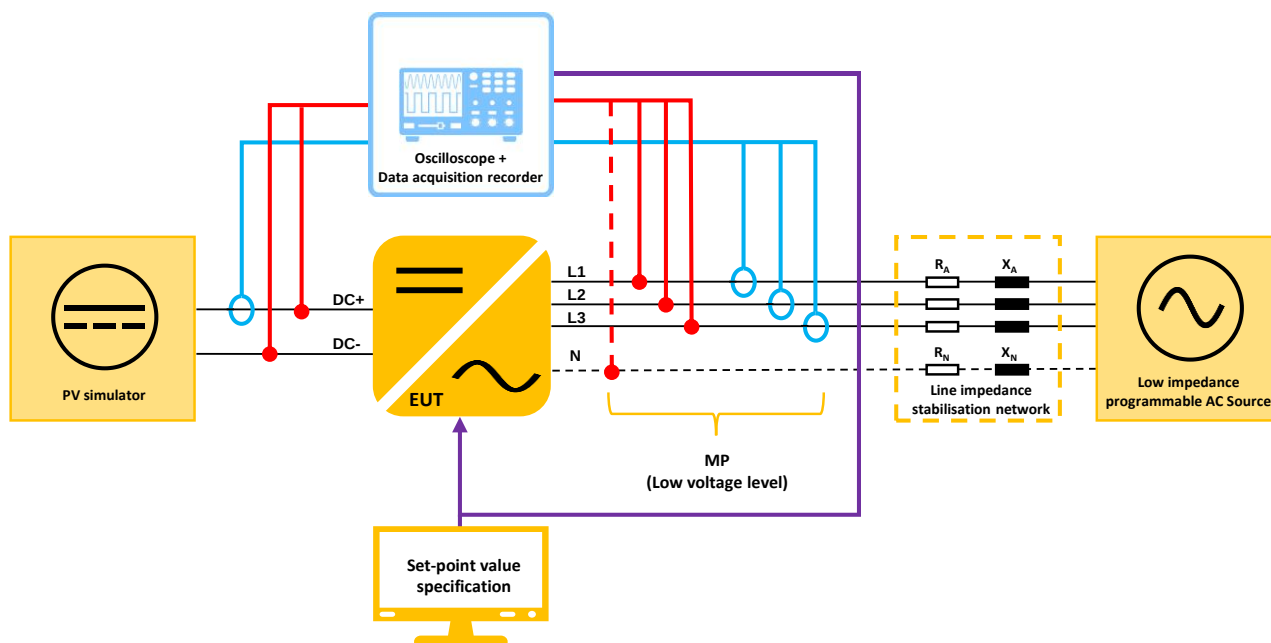


Figure 3 – Measurement setup scheme

3.5 Measurement equipment

Equipment	Internal No.	Manufacturer	Type	Serial No.	Last Calibration
DC power supply ¹	SA200-18	REGATRON	TC.P.32.1000. 400.PV.HMI	1244CC683	--
AC Simulator ¹	SA200-52	Chroma	61860	61860380038 6	--
Oscilloscope	SA050-33	YOKOGAWA	DL850E	91S416984	2022-01-06
Power analyser	SA200-16	YOKOGAWA	WT3000	91LB24254	2021-08-07
Current sensor	SA200-16-01	YOKOGAWA	751552	141215	2021-08-07
	SA200-16-02	YOKOGAWA	751552	141221	2021-08-07
	SA200-16-03	YOKOGAWA	751552	141224	2021-08-07
	SA200-16-04	CT1000	CT1000	9112570083	2021-08-07

Note:

All measurement equipment was used within the calibration period. Copy of calibration certificates are available at the laboratory for reference.

3.6 Sampling rates

Following sampling rates were used for the measurement:

	Chapter according to	Voltages, currents	Setpoint and actual value signals
Power-frequency regulation mode limited to overfrequency (MRPFL-O)	5.1	10 kHz	10 kHz

¹ The AC simulator and DC sources are not need to be calibrated, since the AC voltage and current is measured and determined using the calibrated oscilloscope and power analyser.

3.7 Measurement uncertainties

Measurement category	Measurement uncertainty (k=2)
AC Current (50 Hz signal)	±0,33%
AC Voltage (50 Hz signal)	±0,36%
AC Powers	±0,38%
DC Current	±0,41%
DC Voltage	±0,50%
DC Power	±0,33%
Frequency	±0,01%

Note:

The data and results within this document are accurate. For the uncertainty calculation a confidence level of 95% is assessed.

All stated uncertainties are worst case values due to the definition of uncertainty calculation. The shown uncertainties are equal or lower than the shown values depending on the equipment used for measurements which is stated in this report.

The variability of the components and processes used for manufacturing of devices similar to the tested one can contribute to additional deviation. It is the responsibility of the manufacturer to assure compliance for these devices.

Conformity statements are decided in accordance with IEC GUIDE 115:2021 Procedure 2 (accuracy method), unless otherwise normatively specified or contractually agreed.

3.8 Test conditions

Condition / Requirement	Determined value / Description		Remarks
Point of measurement	☐	medium-voltage side	Measurement at output terminals of the PGU, see Figure 3.
	☒	low-voltage side	
Data medium-voltage system (if applicable)	N/A		Measurement on LV side
Short Circuit Power	N/A		---
Network impedance phase angle	N/A		---
Agreed service voltage UC	N/A		---
Transformer data (if existing):	N/A		Measurement on LV side, no transformer existing
Nominal power of transformer	N/A		---
rel. short-circuit voltage of transformer uk	N/A		---
Tap position of transformer	N/A		---
Grid frequency:			
within $f_n \pm 1\%f_n$	Requirement met		Stable AC source used
$df/dt < 0,2\%f_n / (0,2 \text{ s})$	Requirement met		Stable AC source used
Voltage at PGU terminals within $U_n \pm 10\%U_n$	Requirement met		Checked before testing
The voltage unbalance < 2%	Requirement met: 0,04%		Determined according to IEC 61000-4-30, measured as a 10-minute mean at the PGU terminals.
Environmental conditions must correspond to the manufacturer's requirements of the measuring instruments	Requirement met		During the test period following environmental data were recorded: - Temperature: 20,3 ~ 25,2°C - Rel. humidity: 36,5 ~ 57,3%RH - Air pressure: 985,2 ~ 1003,6 hPa

4 Measurement result

4.1 Frequency requirements

4.1.1 Active power feed-in as a function of frequency

The aim of the test is to demonstrate the response of the EUT due to a deviation in grid frequency from rated value in terms of speed (rise/settling time) and the active power gradient.

4.1.1.1 Overfrequency (LFSM-O)

This test has been done to verify the capacity of the EUT of activating the automatic response for active power reduction due to over frequency variations according to section 5.1.2 of the standard.

Different tests have been carried out, regarding different droop levels and activation thresholds:

- OS2F2: droop of 2% and activation threshold of $\Delta f = 0.2$ Hz (50.2 Hz).
- OS2F5: droop of 2% and activation threshold of $\Delta f = 0.5$ Hz (50.5 Hz).
- OS12F2: droop of 12% and activation threshold of $\Delta f = 0.2$ Hz (50.2 Hz).
- OS12F5: droop of 12% and activation threshold of $\Delta f = 0.5$ Hz (50.5 Hz).

Active power variation for a specific step is calculated using the following expression:

$$|\Delta P| = \frac{|\Delta f| - |\Delta f_1|}{f_n} \times \frac{P_{max}}{s_2} \times 100$$

The following conditions have been evaluated for each test performed

Criteria	Comments	Result
CONDITIONS DURING MEASUREMENTS		
A power supply connected to the terminals of the UGE when the UGE is disconnected from the mains.		P
UGE is connected to the mains.		N/A
Frequency variation method		P
A device (internal or external) introducing a digital or analog input into the UGE control system.		N/A
A direct change of the frequency reference value in the control system of the PGU.		N/A
Direct modification of the frequency in the terminals of the UGE when the power supply has the capacity to modify the output frequency.		P
Test conditions		P
LFSM-U and FSM have been deactivated		P
Voltage has been at $U_n \pm 5\%$ during tests		P
Tests have been performed at P_n with set $Q=0$		P
Every step should be measured during $>1\text{min}$.		P
GENERAL		
No undamped oscillations occur in the response in the transition between test points.		P
Maximum deviations of active power according to the measured level of frequency shall not deviate more than $5\%P_n$.		P
Results comply with the following criteria from reference standards.		P
APPLICABLE FOR ACTIVE POWER REDUCTIONS		
Ta requirements		P
For type C & D T_a is less than or equal to the power response activation time set for the MRPF mode (max 0.5 s MGE without inertia) because it defines the technical capability of the MPE power response.		P
Tr Requirements		P
For MGES UGE: less than or equal to 8 s for an active power variation of up to 45% of the maximum power.	UGE MPE Evaluated	N/A
For MPE UGE: less than or equal to 2 s for an active power variation of up to 50% of the maximum power.		P
Te Requirements		P
For MGES UGE: less than or equal to 30 s.	UGE MPE Evaluated	N/A

Criteria	Comments	Result
For MPE UGE: less than 20 s.		P
APPLICABLE FOR ACTIVE POWER INCREMENTS		
Ta requirements		P
For type C & D Ta is less than or equal to the power response activation time set for the MRPF mode (max 0.5 s MGE without inertia) because it defines the technical capability of the MPE power response.		P
Tr Requirements		P
For MGES UGE: less than or equal to 5 minutes for an active power variation of up to 20% of the maximum power. This slow behaviour will not be acceptable when the direction of the frequency variation is reversed a few seconds before, in which case response times similar to the case of active power reduction will be expected.	UGE MPE Evaluated	N/A
For non-wind MPE UGE: less than or equal to 10 s for an active power variation of up to 50% of the maximum power.		P
For wind MPE UGE: less than or equal to 5 s for an active power variation of up to 20% of the maximum power if the power is above 50% of the maximum power. For powers less than 50% of the maximum power, the response time will be as low as technically possible.	Non-wind MPE UGE evaluated	N/A
Te Requirements		P
For MGES UGE: less than or equal to 6 minutes. This slow behaviour will not be acceptable when the direction of the frequency variation has reverted a few seconds before, in which case, response times similar to the case of active power reduction will be expected.	UGE MPE Evaluated	N/A
For MPE UGE: less than 30 s.		P

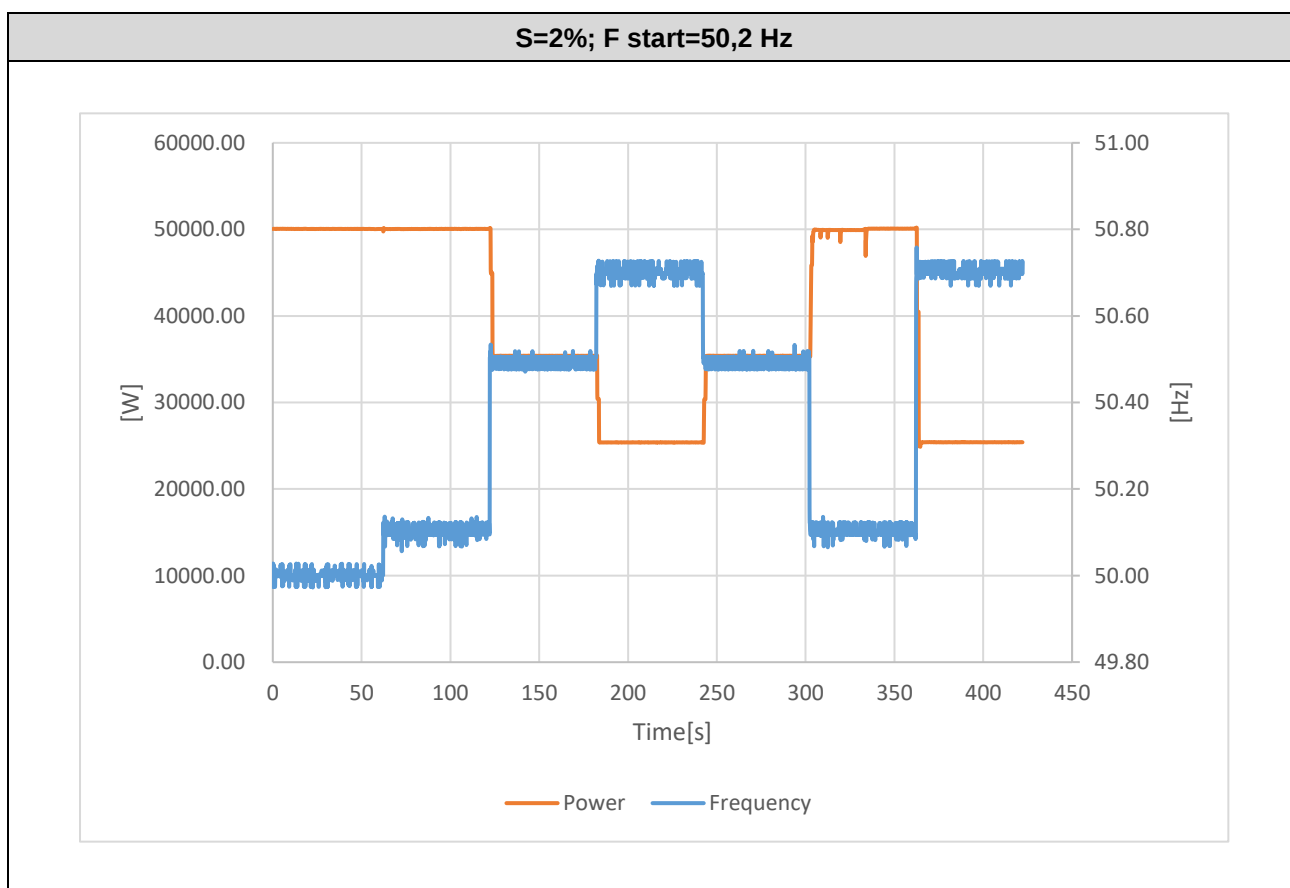
Results are presented in the following graphs and tables, where:

Ta Activation time: Time from a change on frequency that leads to a power frequency change of more than 1%, to the start of active power response.

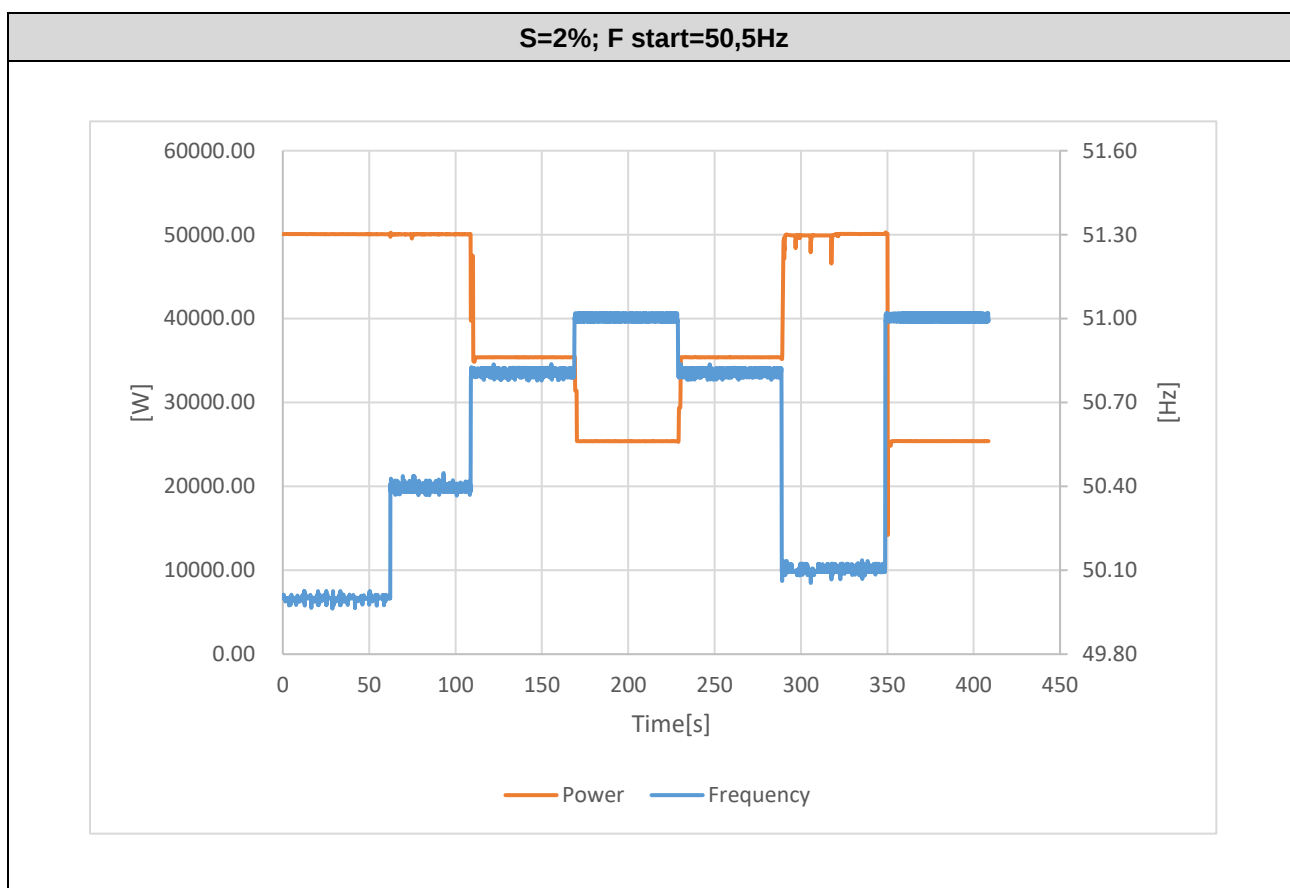
Tr Response time: Time to reach the 90% of the measured active power response (ΔP), without including Ta.

Te Settling time: Time of settling of active power on a tolerance of $\pm 5\%$ of the measured active power response (ΔP).

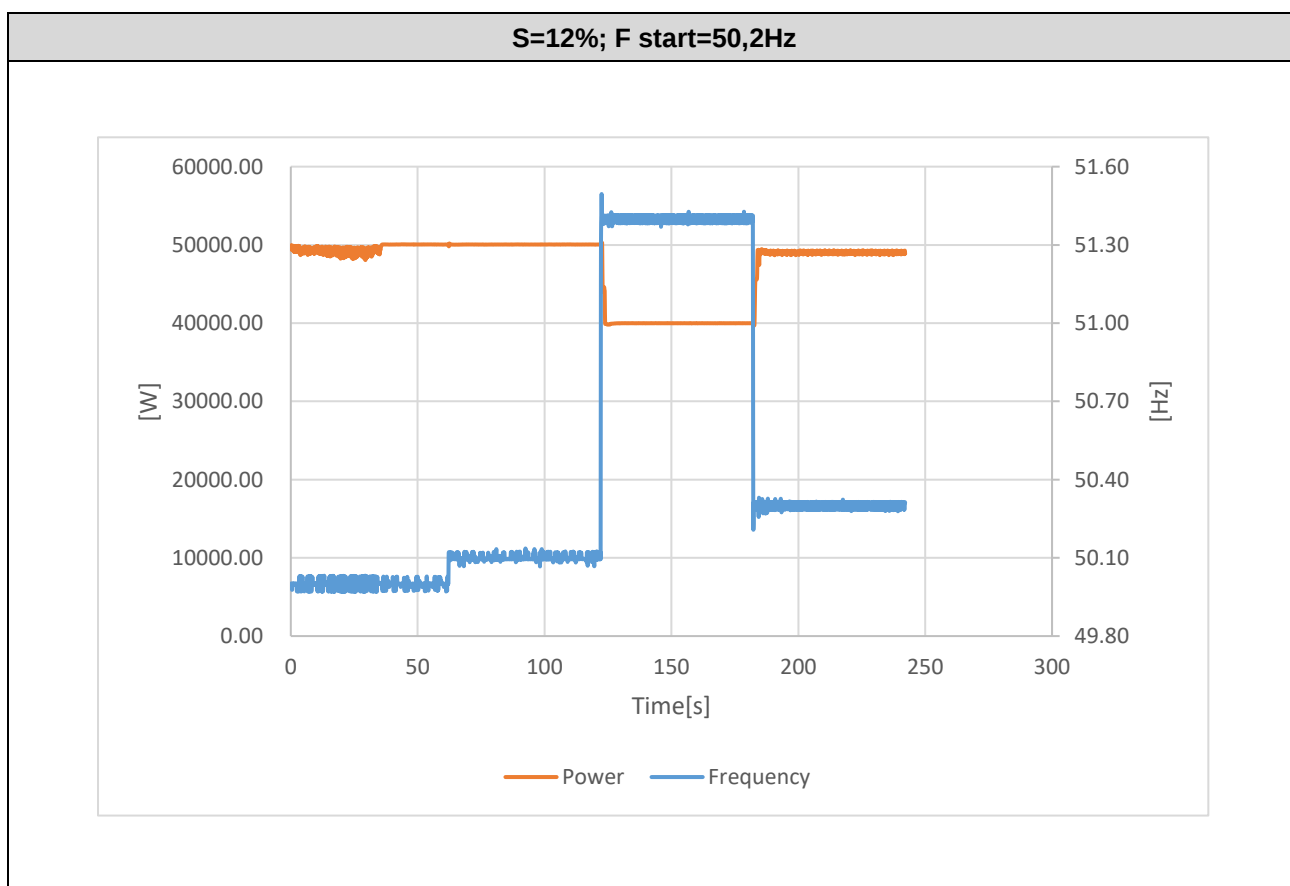
LFSM-O Tests. 2% droop and 50.2 Hz frequency threshold.										
OS2F2: No. of test point	f_0 (Hz)	f_{end} (Hz)	ΔP_{test} expected (%Pmax)	ΔP_{test} recorded (%Pmax)	Deviation (%Pmax) ($<5\%P_{max}$)	90% ΔP_{test} recorded (%Pmax)	t_r (s) (at 90% ΔP (%) recorded)	t_a (s)	t_e (s)	Range of $\Delta P/P_{max}$ (%) admissible (error $\pm 5\%$ of Pmax)
1	50,00	50,10	0%	0,08%	0,08%	N/A	N/A	N/A	N/A	-5% to 5%
2	50,10	50,50	-30%	-29,23%	0,77%	-27,44%	1,6	0,5	2,0	-25% to -35%
3	50,50	50,70	-20%	-19,23%	0,77%	-18,71%	1,6	0,5	1,9	-15% to -25%
4	50,70	50,50	+20%	20,77%	0,77%	18,56%	1,7	0,5	1,9	15% to 25%
5	50,50	50,10	+30%	29,43%	-0,57%	N/A	N/A	N/A	N/A	25% to -35%
6	50,10	50,70	-50%	-49,21%	0,79%	-45,68%	1,6	0,5	2,0	-45% to -55%



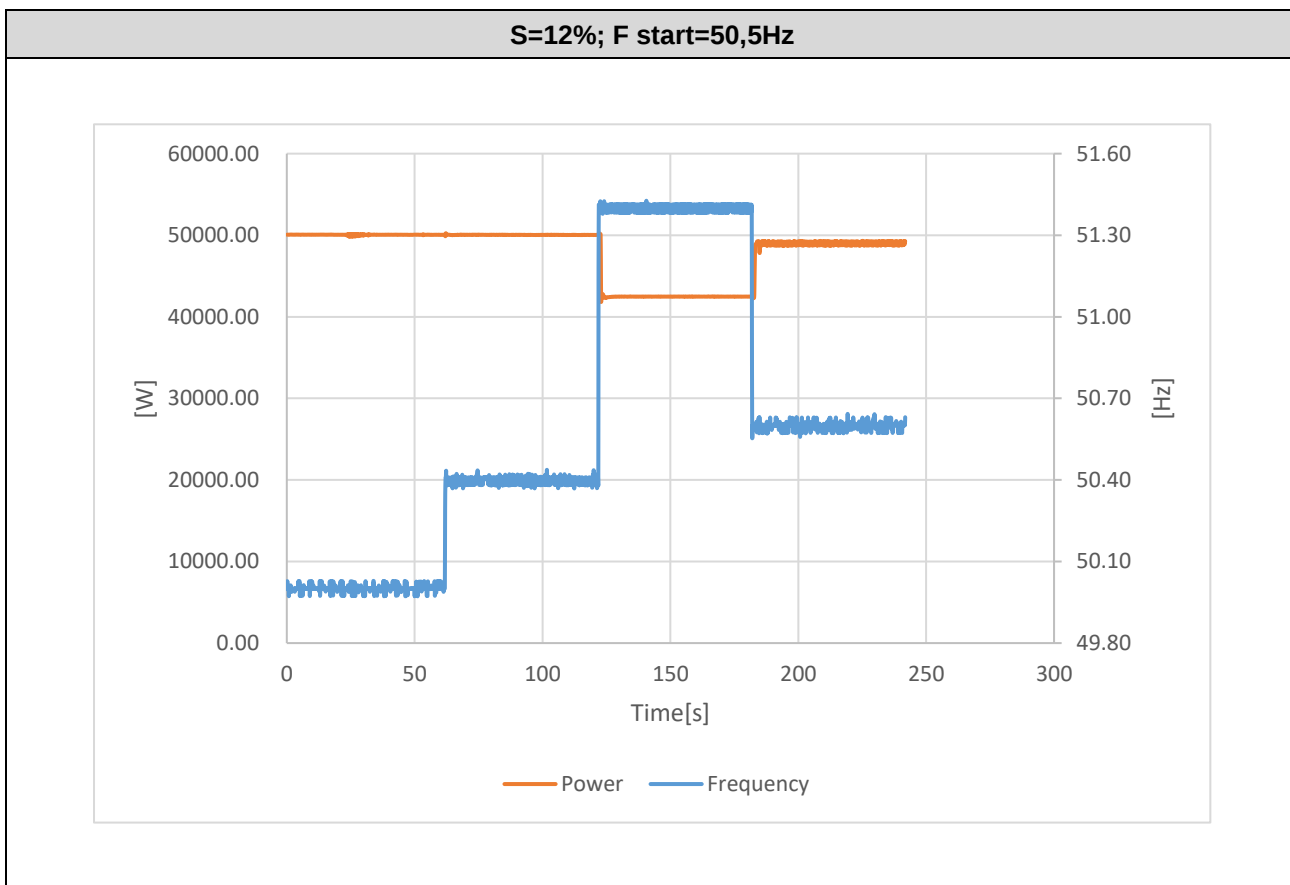
LFSM-O Tests. 2% droop and 50.5 Hz frequency threshold.										
OS2F5: No. of test point	f ₀ (Hz)	f _{end} (Hz)	ΔPtest expected (%Pmax)	ΔPtest recorded (%Pmax)	Deviation (%Pmax) (<5%Pmax)	90% ΔPtest recorded (%Pmax)	t _r (s) (at 90% ΔP (%) recorded)	t _a (s)	t _e (s)	Range of ΔP/Pmax (%) admissible (error ±5% of Pmax)
1	50,00	50,40	0%	0,10%	0,10%	N/A	N/A	N/A	N/A	-5% to 5%
2	50,40	50,80	-30%	-29,25%	0,75%	-27,18%	1,6	0,2	1,9	-25% to - 35%
3	50,80	51,00	-20%	-19,23%	0,77%	-18,46%	1,5	0,4	1,6	-15% to - 25%
4	51,00	50,80	+20%	20,76%	0,76%	18,73%	0,7	0,4	1,7	15% to 25%
5	50,80	50,10	+30%	29,51%	-0,49%	N/A	N/A	N/A	N/A	25% to - 35%
6	50,10	51,00	-50%	-49,25%	0,75%	-45,09%	1,5	0,4	1,6	-45% to - 55%



LFSM-O Tests. 12% droop and 50.2 Hz frequency threshold.										
OS12F2: No. of test point	f ₀ (Hz)	f _{end} (Hz)	ΔP _{test} expected (%P _{max})	ΔP _{test} recorded (%P _{max})	Deviation (%P _{max}) (<5%P _{max})	90% ΔP _{test} recorded (%P _{max})	t _r (s) (at 90% ΔP (%) recorded)	t _a (s)	t _e (s)	Range of ΔP/P _{max} (%) admissible (error ±5% of P _{max})
1	50,00	50,10	0%	-0,38%	-0,38%	N/A	N/A	N/A	N/A	-5% to 5%
2	50,10	51,40	-20%	-20,04%	-0,04%	-17,64%	1,7	0,7	1,8	-15% to - 25%
3	51,40	50,30	+18,33%	18,03%	-0,10%	16,75%	1,8	0,6	2,5	13,33% to 23,33%



LFSM-O Tests. 12% droop and 50.5 Hz frequency threshold.										
OS12F2: No. of test point	f ₀ (Hz)	f _{end} (Hz)	ΔP _{test} expected (%P _{max})	ΔP _{test} recorded (%P _{max})	Deviation (%P _{max}) (<5%P _{max})	90% ΔP _{test} recorded (%P _{max})	t _r (s) (at 90% ΔP (%) recorded)	t _a (s)	t _e (s)	Range of ΔP/P _{max} (%) admissible (error ±5% of P _{max})
1	50,00	50,40	0%	0,10%	0,10%	N/A	N/A	N/A	N/A	-5% to 5%
2	50,40	51,40	-15%	-15,06%	-0,06%	-13,33%	1,2	0,5	2,0	-10% to -20%
3	51,40	50,60	+13,33%	13,02%	-0,31%	12,01%	1,1	0,4	1,3	8,33% to 18,33%



Annex 1- Photo of the unit



Enclosure front view



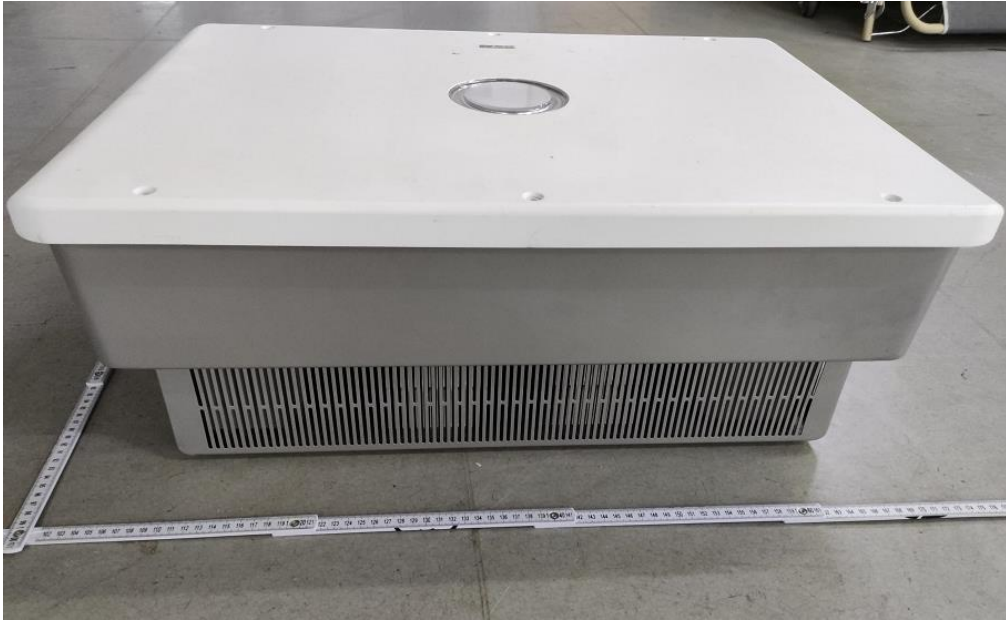
Enclosure Rear view



Enclosure side view-1



Enclosure side view-2



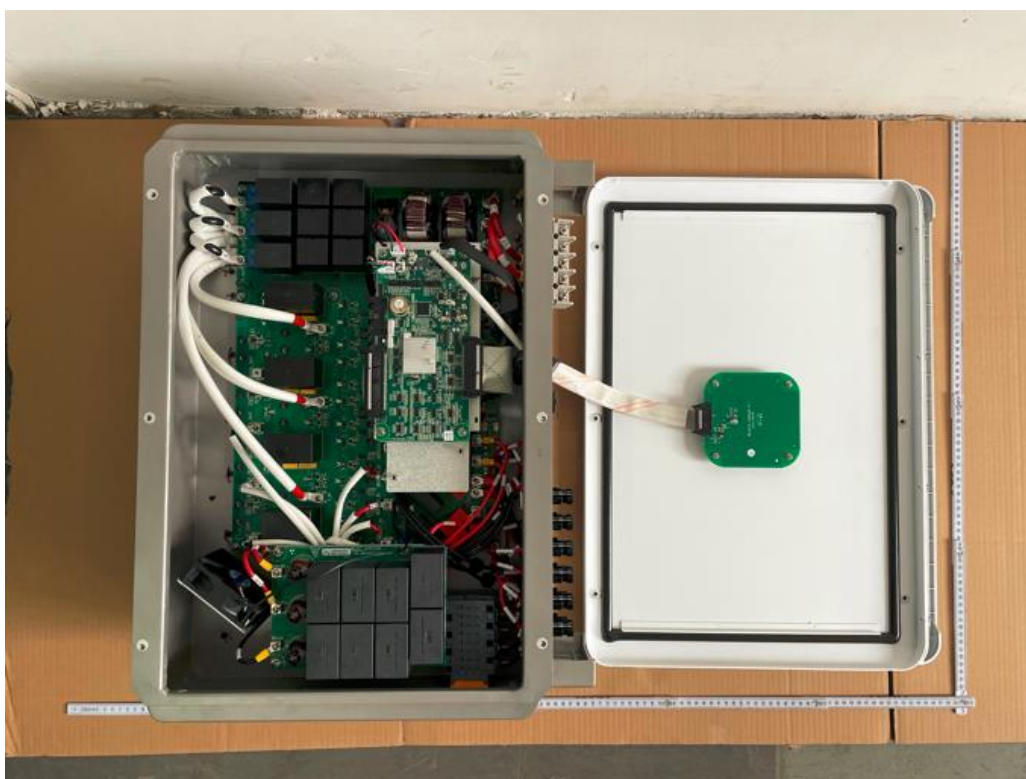
Top view



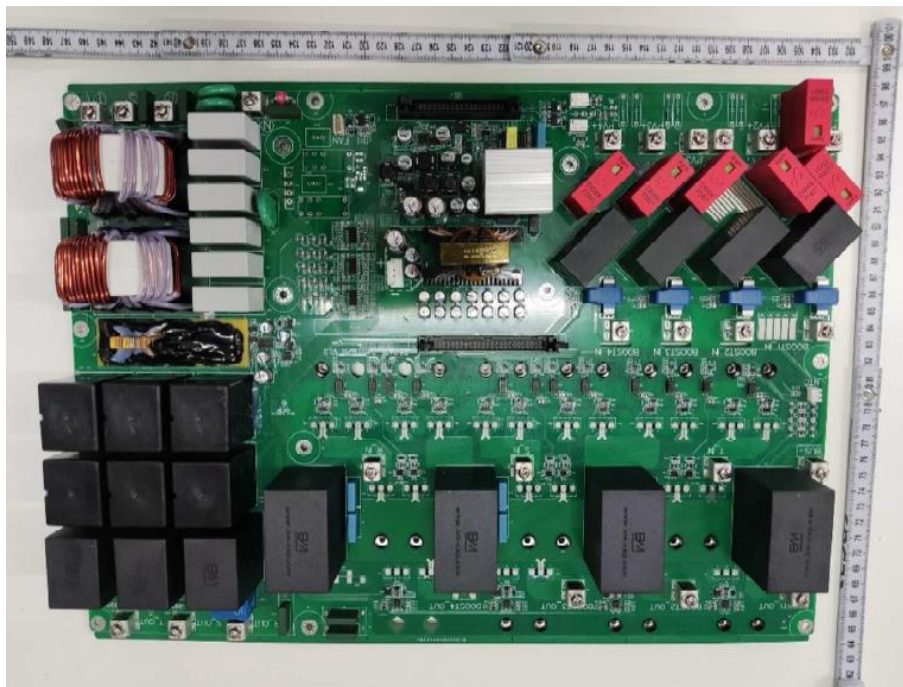
Enclosure bottom view



Internal view of R6-50K-T4-32, R6-40K-T4-32, R6-36K-T4-32



Internal view of R6-36K-T3-32, R6-33K-T3-32, R6-30K-T3-32, R6-25K-T3-32



Front view of Main power board for R6-36K-T4-32, R6-40K-T4-32, R6-50K-T4-32
(DC side with Surge Protector version)



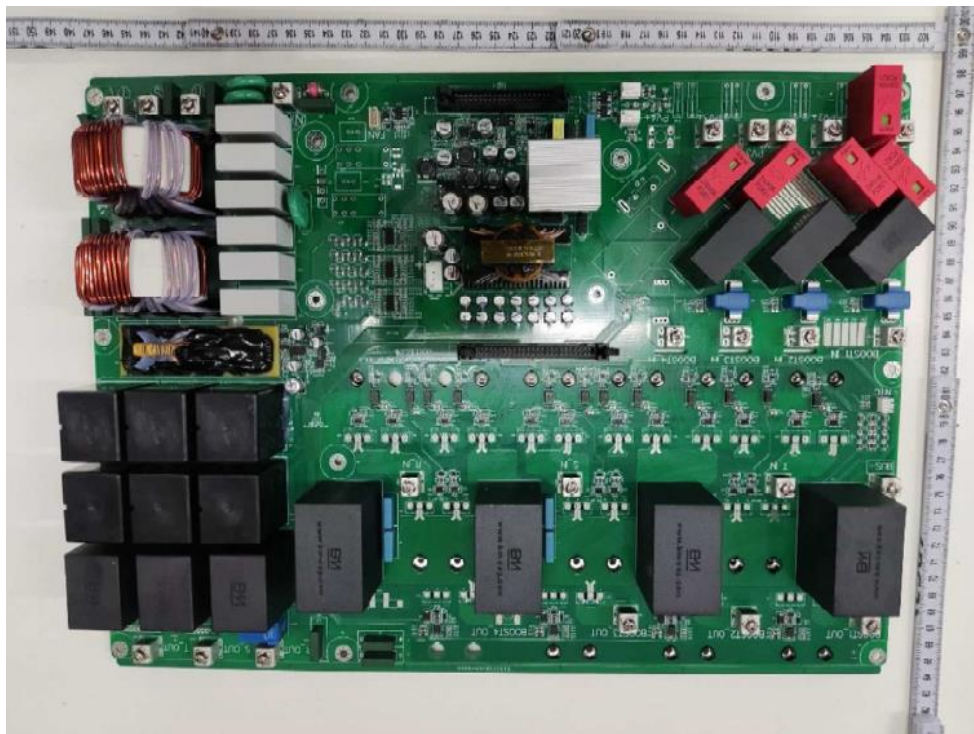
Back view of Main power board for R6-36K-T4-32, R6-40K-T4-32, R6-50K-T4-32
(DC side with Surge Protector version)



Front view of Main power board for R6-25K-T3-32, R6-30K-T3-32, R6-33K-T3-32, R6-36K-T3-32 (DC side with varistor)



Back view of Main power board for R6-25K-T3-32, R6-30K-T3-32, R6-33K-T3-32, R6-36K-T3-32 (DC side with varistor)



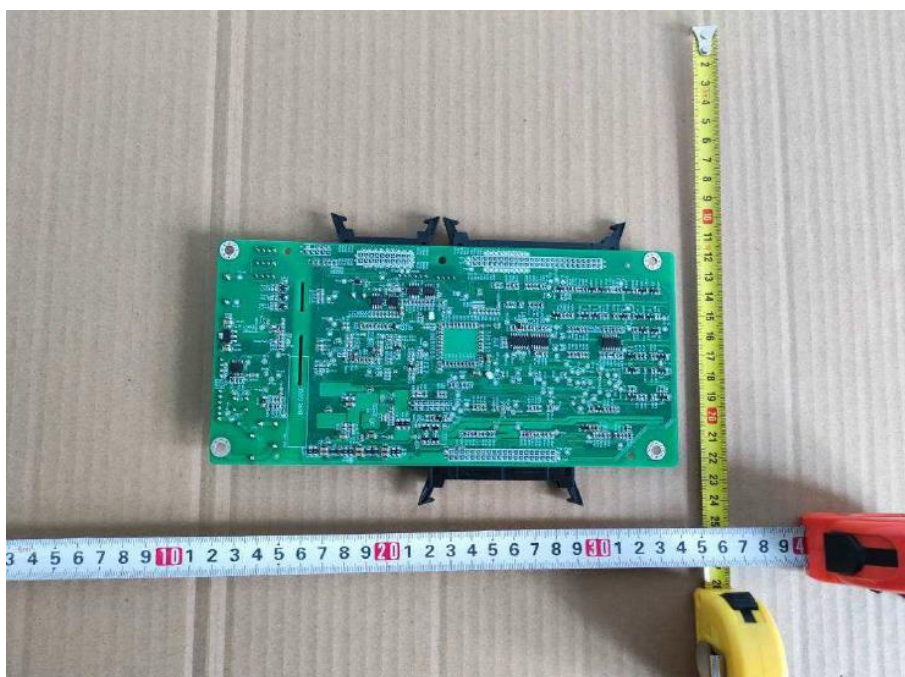
Front view of Main power board for R6-25K-T3-32, R6-30K-T3-32, R6-33K-T3-32, R6-36K-T3-32 (DC side with Surge Protector version)



Back view of Main power board for R6-25K-T3-32, R6-30K-T3-32, R6-33K-T3-32, R6-36K-T3-32 (DC side with Surge Protector version)



Front view of Control communication board



Back view of Control communication board

End of Test Report



本证书证实以下机构

广州三晶电气股份有限公司

广东省广州市高新技术产业开发区科学城荔枝山路9号

已通过中鉴认证有限责任公司的认证，
其质量管理体系符合以下国际质量管理体系标准的要求：

ISO9001:2015

特此准予注册。任何时候，与认证有关的规则和条件均须被遵守

认证范围：

太阳能发电产品（光伏逆变器/储能逆变器）及其配套件的设计开发、
生产及销售；工业控制设备变频器、智能控制系统（智能家居控制器）
的设计开发、生产及其销售

（本证书范围仅包括证书所列场所。若覆盖范围涉及行政许可前置审批、强制性认证的，仅涵盖许可资质、强制性认证证书范围内的产品及服务）

证书签发日期

2022年03月11日

有效日期

2025年03月10日

统一社会信用代码：914401017783916045

证书编号：U0022Q50048R2M

获证组织必须定期接受监督审核并经审核合格此证书方继续有效



胡家华



0158

不遵守UKAS和
UKAS认可组织
的认可标记使
用规定，将可
能导致本证书
失效。



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中国广东省广州市广州大道中227号华景大厦4楼（510600）中鉴认证有限责任公司



GUANGZHOU SANJING ELECTRIC CO., LTD.

NO.9, LIZHISHAN ROAD, SCIENCE CITY, HIGH-TECH. INDUSTRIAL DEVELOPMENT ZONE,
GUANGZHOU CITY, GUANGDONG PROVINCE

*Has been assessed by Zhongjian Certification Co., Ltd
in respect of their Quality Management
Systems and to comply with:*

ISO9001:2015

*Approval is hereby granted for registration providing the
rules and conditions relating to certification are observed at
all times*

CERTIFICATION SCOPE:

DESIGN, DEVELOPMENT, MANUFACTURE AND SALE OF SOLAR POWER GENERATION PRODUCTS
(PHOTOVOLTAIC INVERTERS/ENERGY STORAGE INVERTER) AND ACCESSORIES; DESIGN,
DEVELOPMENT, MANUFACTURE AND SALE OF FREQUENCY INVERTER FOR INDUSTRIAL CONTROL
MACHINERY EQUIPMENT, INTELLIGENT CONTROL SYSTEM (SMART HOME CONTROLLER)

(This certificate only covers the sites listed. If the covered scope involves pre-approval of administration permit or compulsory certification requirement, the scope only covers products and services within the permit license or compulsory certification scope)

Date of Issue

2022-03-11

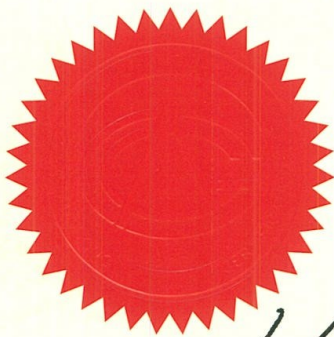
Valid Until

2025-03-10

Certificate Number: U0022Q50048R2M

Organization Code: 914401017783916045

This certificate remains valid only if the certified organization accepts and passes regular surveillance audits.



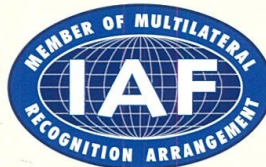
Handwritten signature of the authorized representative.

Authorised Signature for
ZhongJian Certification Co., Ltd



0158

Lack of fulfillment of
condition as set out
in Condition for the
Use of National
Accreditation Marks
by UKAS and UKAS
Accredited
Organizations may
render this
certificate invalid



This certificate remains the property of
Zhongjian Certification Co., Ltd of Quality System

The validity of this certificate could be confirmed via official Website Of CNCA (www.cnca.gov.cn)
Further to the certificate applicability, please enquire the certified organization: visit www.gzcc.org.cn or contact GZCC 020-66390902
4/F, Huajing Building, Guangzhou Dadaozhong, Guangzhou City, Guangdong Province, China (510600) Zhongjian Certification Co., Ltd.



Zhongjian Certification Co., Ltd.

CERTIFICATE OF CONFORMITY OF ENVIRONMENTAL MANAGEMENT SYSTEM CERTIFICATION

No:0070023E50463R2M

This is to certify that the environmental system of

GUANGZHOU SANJING ELECTRIC CO., LTD.

NO.9, LIZHISHAN ROAD, SCIENCE CITY, HIGH-TECH. INDUSTRIAL DEVELOPMENT ZONE, GUANGZHOU CITY, GUANGDONG
PROVINCE

Organization Code: 914401017783916045

is in conformity with

GB/T 24001-2016/ISO14001:2015 Standard

This system is valid for the

THE RELATIVE MANAGEMENT ACTIVITIES OF DESIGN, DEVELOPMENT, MANUFACTURE AND SALE OF SOLAR
POWER GENERATION PRODUCTS (PHOTOVOLTAIC INVERTERS/ENERGY STORAGE INVERTER) AND ACCESSORIES;
DESIGN, DEVELOPMENT, MANUFACTURE AND SALE OF FREQUENCY INVERTER FOR INDUSTRIAL CONTROL
MACHINERY EQUIPMENT, INTELLIGENT CONTROL SYSTEM (SMART HOME CONTROLLER)

(This certificate only covers the sites listed. If the covered scope involves pre-approval of administration permit or compulsory certification requirement, the scope only covers products and services
within the permit license or compulsory certification scope)

Date of issue: 2023-03-14

Term of validity of this certificate: from 2023-03-14 to 2026-03-13 inclusive

This certificate remains valid only if the certified organization accepts and passes regular surveillance audits.



Representative of The Company



中国认可
国际互认
管理体系
MANAGEMENT SYSTEM
CNAS C007-M

The validity of this certificate could be confirmed via official Website Of CNCA (www.cnca.gov.cn)
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