

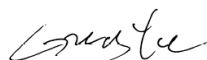
Certificate of Conformity

Certificate Number: CN-PV-220141

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:	INVT Solar Technology (Shenzhen) Co., Ltd. 6 th Floor, Block A, INVT Guangming Technology Building, Kejie Fourth Road, Shutianpu Community, Matian Guangming District, 518000 Shenzhen, PEOPLE'S REPUBLIC OF CHINA.
Product:	Grid-tied Solar inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	iMars XG50KTR, iMars XG50KTRL, iMars XG50KTRL-S, iMars XG50KTR-S, iMars XG60KTR, iMars XG60KTRL, iMars XG60KTRL-S, iMars XG60KTR-S, iMars XG66KTRL, iMars XG66KTRL-S, iMars XG70KTRL, iMars XG70KTRL-S
Brand Name<s>:	inv
Product Complies with:	CEI 0-21:2022: Reference technical rules for connection of active and passive users to the LV electrical Utilities Type approval for Type B
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 ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	220602097GZU-001 Issued by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch accredited by IAS (TL-395) in accordance with ISO/IEC 17025:2017

Additional information in Appendix.



Signature

Certification Manager: Grady Ye

Date: 11 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-220141.

Model	iMars XG50KTR	iMars XG50KTRL	iMars XG50KTRL-S	iMars XG50KTR-S
Max. PV voltage	1100Vdc			
MPPT voltage range	200V – 1000Vdc			
Max. input current	39A/26A/39A/26A		32A*4	
PV Isc	48A/32A/48A/32A		40A*4	
Nominal output voltage	3/N/PE, 230/400Vac	3/N/PE, 277/480Vac	3/N/PE, 277/480Vac	3/N/PE, 230/400Vac
Nominal output Frequency	50 Hz			
Max. output current	79.7A	66.2A	66.2A	79.7A
Rated output power	50KW			
Max. apparent power	55KVA			
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - +60°C			
Software version	V1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220141.

Model	iMars XG60KTR	iMars XG60KTRL	iMars XG60KTRL-S	iMars XG60KTR-S
Max. PV voltage	1100Vdc			
MPPT voltage range	200V – 1000Vdc			
Max. input current	39A*4		32A*4	
PV Isc	48A*4		40A*4	
Nominal output voltage	3/N/PE, 230/400Vac	3/N/PE, 277/480Vac	3/N/PE, 277/480Vac	3/N/PE, 230/400Vac
Nominal output Frequency	50 Hz			
Max. output current	95.6A	79.4A	79.4A	95.6A
Rated output power	60KW			
Max. apparent power	66KVA			
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - +60°C			
Software version	V1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220141.

Model	iMars XG66KTRL	iMars XG66KTRL-S	iMars XG70KTRL	iMars XG70KTRL-S
Max. PV voltage	1100Vdc			
MPPT voltage range	200V – 1000Vdc			
Max. input current	39A*4	32A*4	39A*4	32A*4
PV Isc	48A*4	40A*4	48A*4	40A*4
Nominal output voltage	3/N/PE, 277/480Vac			
Nominal output Frequency	50 Hz			
Max. output current	87.4A		92.6A	
Rated output power	66KW		70KW	
Max. apparent power	72.6KVA		77KVA	
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - +60°C			
Software version	V1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220141.

TYPE OF APPARATUS: Grid-tied Solar inverter			
Number of phases: three-phase			
DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR CONVERSION	ROTATING GENERATOR DEVICE
		☒	
Static converters in systems with capacity more than 11.08 kW The devices are capable to limit I_{dc} to 0.5% of the rated grid current			

Manufacturer: INVT Solar Technology (Shenzhen) Co., Ltd.

Apparatus type: PV Grid inverter

Model: iMars XG50KTR, iMars XG50KTRL, iMars XG50KTRL-S, iMars XG50KTR-S, iMars XG60KTR, iMars XG60KTRL, iMars XG60KTRL-S, iMars XG60KTR-S, iMars XG66KTRL, iMars XG66KTRL-S, iMars XG70KTRL, iMars XG70KTRL-S.

Brands: invt

Firmware Version: V1.0

Number of phases: Three-phase

Having examined the ISO 9001 certificate of the manufacturer No: FM 741214 issued by:
BSI GROUP ASSURANCE LIMITED

The indicated product complies with CEI 0-21:2022: Reference technical rules for the connection of active and passive users to the LV electrical Utilities

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.

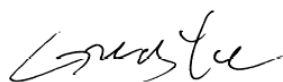
Certificate of Conformity

Certificate Number: CN-PV-230010R1

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:	INVT Solar Technology (Shenzhen) Co., Ltd. 6th Floor, Block A, INVT Guangming Technology Building, Kejie Fourth Road, Shutianpu Community, Matian Guangming District, 518000 Shenzhen, PEOPLE'S REPUBLIC OF CHINA
Product:	Grid-tied Solar inverter
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	iMars XG50KTR, iMars XG50KTRL, iMars XG50KTRL-S, iMars XG50KTR-S, iMars XG60KTR, iMars XG60KTRL, iMars XG60KTRL-S, iMars XG60KTR-S, iMars XG66KTRL, iMars XG66KTRL-S, iMars XG70KTRL, iMars XG70KTRL-S
Brand Name<s>:	inv
Product Complies with:	CEI 0-16:2022: Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution Company
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 ACCREDIA in accordance with ISO/IEC 17065:2012
Test Report No.<s>:	221202105GZU-002, Revision 1: 22 Feb 2023 Issued by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch accredited by IAS (TL-395) in accordance with ISO/IEC 17025:2017

Replaces certificate CN-PV-230010 dated 10 January 2023
Additional information in Appendix.



Signature

Certification Manager: Grady Ye
Date: 28 February 2023



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-230010R1.

Model	iMars XG50KTR	iMars XG50KTRL	iMars XG50KTRL-S	iMars XG50KTR-S
Max. PV voltage	1100Vdc			
MPPT voltage range	200V – 1000Vdc			
Max. input current	39A/26A/39A/26A		32A*4	
PV Isc	48A/32A/48A/32A		40A*4	
Nominal output voltage	3/N/PE, 230/400Vac	3/N/PE, 277/480Vac	3/N/PE, 277/480Vac	3/N/PE, 230/400Vac
Nominal output Frequency	50 Hz			
Max. output current	79.7A	66.2A	66.2A	79.7A
Rated output power	50KW			
Max. apparent power	55KVA			
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - +60°C			
Software version	V1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230010R1.

Model	iMars XG60KTR	iMars XG60KTRL	iMars XG60KTRL-S	iMars XG60KTR-S
Max. PV voltage	1100Vdc			
MPPT voltage range	200V – 1000Vdc			
Max. input current	39A*4		32A*4	
PV Isc	48A*4		40A*4	
Nominal output voltage	3/N/PE, 230/400Vac	3/N/PE, 277/480Vac	3/N/PE, 277/480Vac	3/N/PE, 230/400Vac
Nominal output Frequency	50 Hz			
Max. output current	95.6A	79.4A	79.4A	95.6A
Rated output power	60KW			
Max. apparent power	66KVA			
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30°C - +60°C			
Software version	V1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230010R1.

Model	iMars XG66KTRL	iMars XG66KTRL-S	iMars XG70KTRL	iMars XG70KTRL-S
Max. PV voltage	1100Vdc			
MPPT voltage range	200V – 1000Vdc			
Max. input current	39A*4	32A*4	39A*4	32A*4
PV Isc	48A*4	40A*4	48A*4	40A*4
Nominal output voltage	3/N/PE, 277/480Vac			
Nominal output Frequency	50 Hz			
Max. output current	87.4A		92.6A	
Rated output power	66KW		70KW	
Max. apparent power	72.6KVA		77KVA	
Power factor range	0.8Leading – 0.8 lagging			
Safety level	Class I			
Ingress Protection	IP 66			
Operation Ambient Temperature	-30℃ - +60℃			
Software version	V1.0			

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230010R1.

TYPE OF APPARATUS: Grid-tied Solar inverter			
Number of phases: three-phase			
DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR CONVERSION	ROTATING GENERATOR DEVICE
		☒	
Static converters in systems with capacity more than 11.08 kW The devices are capable to limit I_{dc} to 0.5% of the rated grid current			

Manufacturer: INVT Solar Technology (Shenzhen) Co., Ltd.

Apparatus type: Grid-tied Solar inverter

Model: iMars XG50KTR, iMars XG50KTRL, iMars XG50KTRL-S, iMars XG50KTR-S, iMars XG60KTR, iMars XG60KTRL, iMars XG60KTRL-S, iMars XG60KTR-S, iMars XG66KTRL, iMars XG66KTRL-S, iMars XG70KTRL, iMars XG70KTRL-S.

Brands: invt

Firmware Version: V1.0

Number of phases: Three-phase

Nominal power: See Certificate for each model

Maximum power of the destination plant: < 400KW and ≥400KW

Having examined the ISO 9001 certificate of the manufacturer No: FM 741214 issued by:
BSI GROUP ASSURANCE LIMITED

The indicated product complies with CEI 0-16:2022: Reference technical rules for the connection of active and passive consumers to the HV and MV electrical networks of distribution Company.



Stock Code: SZ 002334
INVT Solar Technology (Shenzhen) Co., Ltd.

ADD: 2nd Floor, Block B, INVT Guangming
Technology Building, Songbai Rd.,
Guangming Dist., Shenzhen, China

TEL: +86 0755 2353 5666

Email: solar@invt.com.cn

WEB: www.invt-solar.com

AUTOCERTIFICAZIONE DI CONFORMITA' ALLA NORMA CEI 0-21: 2022

1) Tipologia di apparecchiatura cui si riferisce rautocertificazione

COSTRUTTORE: INVT Guangming Techology Building ,Songbai Road, Matian,Guangming
District,Shenzhen,China

Modello inverter	Versione firmware	Numero di fa si	Potenza nominale
iMars XG15KTR1	V1.0	Trifase	15kW
iMars XG15KTR1-S	V1.0	Trifase	15kW
iMars XG12KTR	V1.0	Trifase	12kW
iMars XG12KTR-S	V1.0	Trifase	12kW
iMars XG11KTR	V1.0	Trifase	11kW
iMars XG11KTR-S	V1.0	Trifase	11kW
iMars XG10KTR	V1.0	Trifase	10kW
iMars XG10KTR-S	V1.0	Trifase	10kW
iMars XG9KTR	V1.0	Trifase	9kW
iMars XG9KTR-S	V1.0	Trifase	9kW
iMars XG8KTR	V1.0	Trifase	8kW
iMars XG8KTR-S	V1.0	Trifase	8kW
iMars XG6KTR	V1.0	Trifase	6kW
iMars XG6KTR-S	V1.0	Trifase	6kW
iMars XG5KTR	V1.0	Trifase	5kW
iMars XG5KTR-S	V1.0	Trifase	5kW

NOTA Il dispositivo e in grado di limitare la Ide allo 0,5% della corrente nominale

2) Informazioni DDI e SPI

Dispositivo di Interfaccia (DDI) integrato	
Marca e modello	HF161F-W12-HT (477)
Tipo / Quantita	Rele
Conformita	UL E341422
Interblocchi di funzionamento	Nessuno
Caratteristiche del sistema di protezione di interfaccia (SPI)	
Marca e modello	INVT
Versione FW	V1.0
Integrato in altri apparati	Si, interno all'inverter



Stock Code: SZ 002334
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TEL: +86 0755 2353 5666

Email: solar@invt.com.cn

WEB: www.invt-solar.com

3) Soglie di intervento

Protezione	Valori di soglia		Tempi di intervento			Esecuzione
	Soglia prescritta	Soglia impostata	Tempo di intervento prescritto	Tempo di intervento impostato	Tempo di intervento rilevato	
59.S1	1,10 Vn	253 V	<603s	603 s	Indicare Valori Autotest	SI
59.S2	1,15 Vn	264,5 V	0,2 s	0,2 s	Indicare Valori Autotest	SI
27.S1	0,85 Vn	195,5 V	1,5 s	1,5 s	Indicare Valori Autotest	SI
27.S2	0,15 Vn	34,5 V	0,2 s	0,2 s	Indicare Valori Autotest	SI
81>.S1	50,2 Hz	50,2 Hz	0.1 s	0,1s	Indicare Valori Autotest	NO
81<.S1	49,8 Hz	49,8 Hz	0.1 s	0,1s	Indicare Valori Autotest	NO
81>.S2	51,5 Hz	51,5 Hz	0,1s oppure 1s	0,1s	Indicare Valori Autotest	SI
81<.S2	47,5 Hz	47,5 Hz	0,1s oppure 4s	0,1 s	Indicare Valori Autotest	SI
Comando locale	Stato“ALTO”	“BASSO”				
Segnale esterno	Stato“ALTO	“LTO”				



Stock Code: SZ 002334
INVT Solar Technology (Shenzhen) Co., Ltd.

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Technology Building, Songbai Rd.,
Guangming Dist., Shenzhen, China

TEL: +86 0755 2353 5666

Email: solar@invt.com.cn

WEB: www.invt-solar.com

4) Autocertificazione di conformità alle prescrizioni CEI 0-21: 2022

Con la presente dichiarazione, resa ai sensi degli artt. 46 e 47 DPR 28 dicembre 2000, n.445, consapevole delle responsabilità e delle sanzioni penali previste dall'art. 76 del citato DPR per false attestazioni e dichiarazioni mendaci, il sottoscritto Weifeng Ren residente in Shenzhen, nel comune di Guangdong provincia di Shenzhen (Cina), in qualità di delegato del rappresentante legale della società INVT Solar Technology (Shenzhen) Co., Ltd. con sede legale INVT Guangming Technology Building, Songbai Road, Matian, Guangming District, Shenzhen, China P.IVA 914403003564867185

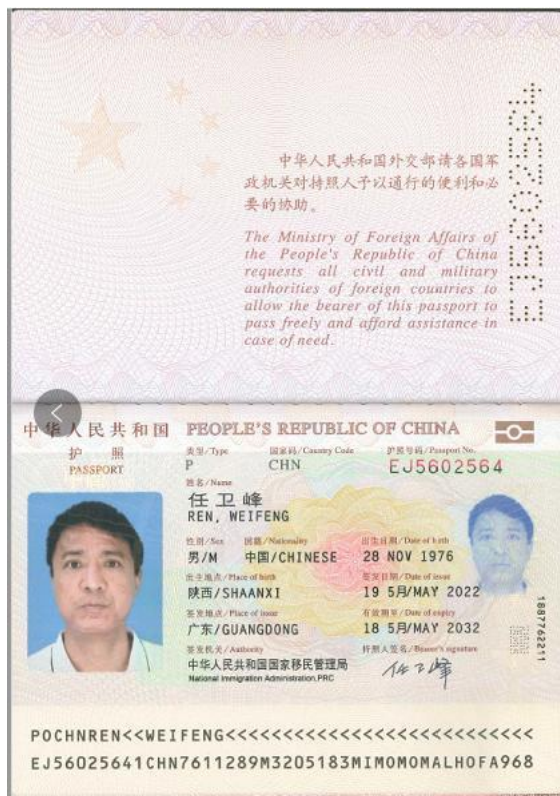
DICHIARA

che gli inverter Ibridi di propria costruzione di cui al precedente punto 1, sono conformi alle prescrizioni della norma CEI CEI 0-21:2022

Si attesta inoltre che la produzione delle apparecchiature oggetto di questa dichiarazione avviene in regime di qualità secondo ISO 9001:2015 (Shenzhen Universal Certification Center Co., Ltd, certificato N° 02422Q32010027R1M del 01/10/2022)

Date

Signature



For and on behalf of
深圳市英威腾光伏科技有限公司
INVT Solar Technology (Shenzhen) Co., Ltd

Authorized Signature(s)

Ren weifeng
2023. 1. 16.