

# Compliance Document

No. D 093811 0087 Rev. 00

**Holder of Certificate:** **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:** **Converter  
(Solar inverter)**

**Model(s):** **iMars XG5KTR, iMars XG6KTR, iMars XG8KTR,  
iMars XG9KTR, iMars XG10KTR, iMars XG11KTR,  
iMars XG12KTR, iMars XG15KTR1,  
iMars XG5KTR-S, iMars XG6KTR-S,  
iMars XG8KTR-S, iMars XG9KTR-S,  
iMars XG10KTR-S, iMars XG11KTR-S,  
iMars XG12KTR-S, iMars XG15KTR1-S**


**Parameters:** See page 2-5

**Tested  
according to:** CEI 0-21:2022

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](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290223116901

**Date,** 2023-06-07



( Billy Qiu )

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## Parameters:

Model:	iMars XG5KTR	iMars XG6KTR	iMars XG8KTR
PV input terminal parameters:			
V <sub>max</sub> PV	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.
Rated input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.
MPPT voltage range	180-1000 Vd.c.	180-1000 Vd.c.	180-1000 Vd.c.
MPPT voltage range (full load)	250-850 Vd.c.	250-850 Vd.c.	320-850 Vd.c.
Maximum number of input string per tracker	1/1	1/1	1/1
Maximum continuous input current	14/14 Ad.c.	14/14 Ad.c.	14/14 Ad.c.
I <sub>sc</sub> PV	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.
AC output rating			
Rated output voltage	3/N/PE, 230/400 Va.c.		
Rated output frequency	50 Hz		
Maximum continuous output current	8 Aa.c.	9.6 Aa.c.	12.8 Aa.c.
Rate output active power	5 kW	6 kW	8 kW
Maximum output apparent power	5.5 kVA	6.6 kVA	8.8 kVA
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		
Ambient temperature parameter			
Operation temperature range	-30°C~+60°C		
Storage temperature range	-30°C~+70°C		

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Model:	iMars XG9KTR	iMars XG10KTR	iMars XG11KTR	iMars XG12KTR	iMars XG15KTR1
PV input terminal parameters:					
Vmax PV	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.
Rated input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
MPPT voltage range	180-1000 Vd.c.	180-1000 Vd.c.	180-1000 Vd.c.	180-1000 Vd.c.	180-1000 Vd.c.
MPPT voltage range (full load)	400-850 Vd.c.	450-850 Vd.c.	450-850 Vd.c.	480-850 Vd.c.	500-850 Vd.c.
Maximum number of input string per tracker	1/1	1/1	1/1	1/1	1/2
Maximum continuous input current	14/14 Ad.c.	14/14 Ad.c.	14/14 Ad.c.	14/14 Ad.c.	14/28 Ad.c.
Isc PV	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.	18/36 Ad.c.
AC output rating					
Rated output voltage	3/N/PE, 230/400 Va.c.				
Rated output frequency	50 Hz				
Maximum continuous output current	14.4 Aa.c.	15.9 Aa.c.	17.5 Aa.c.	19.1 Aa.c.	23.9 Aa.c.
Rate output active power	9 kW	10 kW	11 kW	12 kW	15 kW
Maximum output apparent power	9.9 kVA	11 kVA	12.1 kVA	13.2 kVA	16.5 kVA
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)				
Ambient temperature parameter					
Operation temperature range	-30°C~+60°C				
Storage temperature range	-30°C~+70°C				

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Model:	iMars XG5KTR-S	iMars XG6KTR-S	iMars XG8KTR-S
PV input terminal parameters:			
Vmax PV	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.
Rated input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.
MPPT voltage range	180-1000 Vd.c.	180-1000 Vd.c.	180-1000 Vd.c.
MPPT voltage range (full load)	200-850 Vd.c.	200-850 Vd.c.	360-850 Vd.c.
Maximum number of input string per tracker	1/1	1/1	1/1
Maximum continuous input current	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.
Isc PV	25/25 Ad.c.	25/25 Ad.c.	25/25 Ad.c.
AC output rating			
Rated output voltage	3/N/PE, 230/400 Va.c.		
Rated output frequency	50 Hz		
Maximum continuous output current	8 Aa.c.	9.6 Aa.c.	12.8 Aa.c.
Rate output active power	5 kW	6 kW	8 kW
Maximum output apparent power	5.5 kVA	6.6 kVA	8.8 kVA
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)		
Ambient temperature parameter			
Operation temperature range	-30°C~+60°C		
Storage temperature range	-30°C~+70°C		

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Model:	iMars XG9KTR-S	iMars XG10KTR-S	iMars XG11KTR-S	iMars XG12KTR-S	iMars XG15KTR1-S
PV input terminal parameters:					
Vmax PV	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.	1100 Vd.c.
Rated input voltage	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.	600 Vd.c.
MPPT voltage range	180-1000 Vd.c.	180-1000 Vd.c.	180-1000 Vd.c.	180-1000 Vd.c.	180-1000 Vd.c.
MPPT voltage range (full load)	360-850 Vd.c.	360-850 Vd.c.	380-850 Vd.c.	380-850 Vd.c.	450-850 Vd.c.
Maximum number of input string per tracker	1/1	1/1	1/1	1/1	1/1
Maximum continuous input current	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.	18/18 Ad.c.
Isc PV	25/25 Ad.c.	25/25 Ad.c.	25/25 Ad.c.	25/25 Ad.c.	25/25 Ad.c.
AC output rating					
Rated output voltage	3/N/PE, 230/400 Va.c.				
Rated output frequency	50 Hz				
Maximum continuous output current	14.4 Aa.c.	15.9 Aa.c.	17.5 Aa.c.	19.1 Aa.c.	23.9 Aa.c.
Rate output active power	9 kW	10 kW	11 kW	12 kW	15 kW
Maximum output apparent power	9.9 kVA	11 kVA	12.1 kVA	13.2 kVA	16.5 kVA
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)				
Ambient temperature parameter					
Operation temperature range	-30°C~+60°C				
Storage temperature range	-30°C~+70°C				

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The following generators meet the requirements of CEI 0-21:2022									
Section A	Manufacturer	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							
	Equipment type	Solar Inverter							
	Brand	invt							
	Number of phases	<input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three phase Frequency: 50Hz Voltage: a.c. 230V/400V							
	Primary energy used	<input checked="" type="checkbox"/> Solar <input type="checkbox"/> Storage <input type="checkbox"/> Wind <input type="checkbox"/> Hydroelectric <input type="checkbox"/> CHP <input type="checkbox"/> Other:							
	Generator model	iMars XG5KTR / iMars XG5KTR-S	iMars XG6KTR / iMars XG6KTR-S	iMars XG8KTR / iMars XG8KTR-S	iMars XG9KTR / iMars XG9KTR-S	iMars XG10KTR / iMars XG10KTR-S	iMars XG11KTR / iMars XG11KTR-S	iMars XG12KTR / iMars XG12KTR-S	iMars XG15KTR R1 / iMars XG15KTR R1-S
	Rated active power output to Grid	5 kW	6 kW	8 kW	9 kW	10 kW	11 kW	12 kW	15 kW
	Maximum apparent power output to Grid	5.5 kVA	6.6 kVA	8.8 kVA	9.9 kVA	11 kVA	12.1 kVA	13.2 kVA	16.5 kVA
	The generator:	<input checked="" type="checkbox"/> is suitable for installation in systems with an output power of more than 11.08 kW <input checked="" type="checkbox"/> is capable of limiting Idc to 0.5% of rated current: <input checked="" type="checkbox"/> uses a DC-sensitive protection function <input type="checkbox"/> uses a transformer operating at mains frequency							
	Characteristics of the interface protection system								
Section B	Manufacturer	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							
	Model	iMars XG5KTR, iMars XG6KTR, iMars XG8KTR, iMars XG9KTR, iMars XG10KTR, iMars XG11KTR, iMars XG12KTR, iMars XG5KTR-S, iMars XG6KTR-S, iMars XG8KTR-S, iMars XG9KTR-S, iMars XG10KTR-S, iMars XG11KTR-S, iMars XG12KTR-S							
	Type	<input checked="" type="checkbox"/> Integrated <input type="checkbox"/> Not integrated Remark: The application of Model iMars XG12KTR, iMars XG15KTR1, iMars XG12KTR-S and iMars XG15KTR1-S in system may exceed 11.08kW on grid connection point, external interface protection system is required according to final installation requirement.							

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Section C	Characteristics of inverter(s)								
	Model of inverter	iMars XG5KTR / iMars XG5KTR -S	iMars XG6KTR / iMars XG6KTR -S	iMars XG8KTR / iMars XG8KTR -S	iMars XG9KTR / iMars XG9KTR -S	iMars XG10KT R / iMars XG10KT R-S	iMars XG11KT R / iMars XG11KT R-S	iMars XG12KT R / iMars XG12KT R-S	iMars XG15KT R1 / iMars XG15KT R1-S
	Manufacturer of inverter	INVT Solar Technology (ShenZhen) Co., Ltd.							
	Firmware version	12006-00312							
	Rated power of inverter ( $P_{NINV}$ )	5 kW	6 kW	8 kW	9 kW	10 kW	11 kW	12 kW	15 kW
Section I	References of the laboratories that performed the tests and their test reports (RdP)								
	Selected method	<input checked="" type="checkbox"/> Tests performed by an accredited laboratory							
	Test Reports (RdP)	Test report according to Annex A and Annex B 64.290.22.31169.01							
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch							
	Accreditation No.	D-PL-19065-01-01							
	Accreditation body ref.	DAkKS							
Section M	Reference of the certification body								
	Certification Body	TÜV SÜD Product Service GmbH DAkKS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013							



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

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## EU Declaration of Conformity

To whom it may concern,

We INVT Solar Technology (Shenzhen) Co., Ltd. declare that the following product:

Item	Invt model#	V-TAC model#
1	iMars XG5KTR	VT-6605310
2	iMars XG8KTR	VT-6608310
3	iMars XG10KTR	VT-6610310
4	iMars XG15KTR	VT-61015
5	iMars XG30KTR	VT-6630305
6	iMars XG50KTR	VT-6607150
7	iMars XG60KTR	VT-61060
8	iMars XG100KTR	VT-6607100

Complies with following directives and standards:

Low Voltage Directive 2014/35/EU

EN 62109-1:2020

EN 62109-2:2021

EMC Directive 2014/30/EU

EN IEC 61000-6-1:2019, EN IEC 61000-6-3:2021

EN IEC 61000-6-2:2019, EN IEC 61000-6-4:2019

EN 61000-3-2:2014, EN 61000-3-3:2013

Regulation (EU) 2016/631 (NC RfG)

EN 50549-1:2019/AC:2019

This declaration of conformity is issued under the responsibility of the manufacturer.

INVT Solar Technology (Shenzhen) Co., Ltd.

Date: Dec-9<sup>th</sup>-2022

