


# Compliance Document

No. D 093811 0087 Rev. 00

<b>Holder of Certificate:</b>	<b>INVT Solar Technology (ShenZhen) Co., Ltd.</b> 6th Floor, Block A INVT Guangming Technology Building Kejie Fourth Road, Shutianpu Community, Matian Guangming District 518000 Shenzhen PEOPLE'S REPUBLIC OF CHINA
<b>Product:</b>	<b>Converter (Solar inverter)</b>
<b>Model(s):</b>	<b>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</b>
<b>Parameters:</b>	See page 2-5
<b>Tested according to:</b>	CEI 0-21:2022
<b>Test report no.:</b>	64290223116901

**Date,** 2023-06-07



( Billy Qiu )

# Compliance Document

No. D 093811 0087 Rev. 00

## 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		

# Compliance Document

No. D 093811 0087 Rev. 00

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				

# Compliance Document

No. D 093811 0087 Rev. 00

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		

# Compliance Document

No. D 093811 0087 Rev. 00

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				

# Compliance Document

No. D 093811 0087 Rev. 00

The following generators meet the requirements of CEI 0-21:2022									
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:								
Section A Generator model	<table border="1"> <tr> <td>iMars XG5KTR / iMars XG5KTR-S</td> <td>iMars XG6KTR / iMars XG6KTR-S</td> <td>iMars XG8KTR / iMars XG8KTR-S</td> <td>iMars XG9KTR / iMars XG9KTR-S</td> <td>iMars XG10KTR / iMars XG10KTR-S</td> <td>iMars XG11KTR / iMars XG11KTR-S</td> <td>iMars XG12KTR / iMars XG12KTR-S</td> <td>iMars XG15KTR R1 / iMars XG15KTR R1-S</td> </tr> </table>	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
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								
Section B 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								
Section B 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.								

# Compliance Document

No. D 093811 0087 Rev. 00

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							