



Product Service

CERTIFICATE

No. Z2 093811 0057 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

Certification Mark:



Product: **Converter
(Grid-tied Solar Inverter)**

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: 64290223040501

Valid until: 2027-10-12

Date, 2022-10-13

(Billy Qiu)

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Model(s): iMars XG3KTR, iMars XG4KTR, iMars XG5KTR, iMars XG6KTR, iMars XG8KTR, iMars XG9KTR, iMars XG10KTR, iMars XG11KTR, iMars XG12KTR, iMars XG15KTR1, iMars XG3KTR-S, iMars XG4KTR-S, iMars XG5KTR-S, iMars XG6KTR-S, iMars XG8KTR-S, iMars XG9KTR-S, iMars XG10KTR-S, iMars XG11KTR-S, iMars XG12KTR-S, iMars XG15KTR1-S, iMars XG3KTR-AU, iMars XG4KTR-AU, iMars XG5KTR-AU, iMars XG6KTR-AU, iMars XG8KTR-AU, iMars XG9KTR-AU, iMars XG10KTR-AU, iMars XG11KTR-AU, iMars XG12KTR-AU, iMars XG15KTR1-AU

Parameters:

Model:	iMars XG3KTR	iMars XG4KTR	iMars XG5KTR	iMars XG6KTR	iMars XG8KTR
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)	250-850 Vd.c.	250-850 Vd.c.	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	1/1	1/1
Maximum continuous input current	14/14 Ad.c.	14/14 Ad.c.	14/14 Ad.c.	14/14 Ad.c.	14/14 Ad.c.
Isc PV	18/18 Ad.c.	18/18 Ad.c.	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	50/60 Hz				
Maximum continuous output current	4.8 Aa.c.	6.4 Aa.c.	8 Aa.c.	9.6 Aa.c.	12.8 Aa.c.
Rate output active power	3 kW	4 kW	5 kW	6 kW	8 kW
Maximum output apparent power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA
Power factor	0.8 leading ~ 0.8 lagging				
General					
Operating temperature range	-30°C ~+60°C (derating above at 45°C)				
Protection class	I				
Ingress protection	IP66				
Operating altitude range	≤4000m				

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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	50/60 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	0.8 leading ~ 0.8 lagging				
General					
Operating temperature range	-30°C ~+60°C (derating above at 45°C)				
Protection class	I				
Ingress protection	IP66				
Operating altitude range	≤4000m				

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Model:	iMars XG3KTR-S	iMars XG4KTR-S	iMars XG5KTR-S	iMars XG6KTR-S	iMars XG8KTR-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)	200-850 Vd.c.	200-850 Vd.c.	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	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, 230/400Va.c.				
Rated output frequency	50/60 Hz				
Maximum continuous output current	4.8 Aa.c.	6.4 Aa.c.	8 Aa.c.	9.6 Aa.c.	12.8 Aa.c.
Rate output active power	3 kW	4 kW	5 kW	6 kW	8 kW
Maximum output apparent power	3.3 kVA	4.4 kVA	5.5 kVA	6.6 kVA	8.8 kVA
Power factor	0.8 leading ~ 0.8 lagging				
General					
Operating temperature range	-30°C ~+60°C (derating above at 45°C)				
Protection class	I				
Ingress protection	IP66				
Operating altitude range	≤4000m				

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Model:	iMars XG9KTR-S	iMars XG10KTR- S	iMars XG11KTR- S	iMars XG12KTR- S	iMars XG15KTR1 -S
PV input terminal parameters:					
V _{max} 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.
I _{sc} 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	50/60Hz				
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	0.8 leading ~ 0.8 lagging				
General					
Operating temperature range	-30°C ~+60°C (derating above at 45°C)				
Protection class	I				
Ingress protection	IP66				
Operating altitude range	≤4000m				

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Model:	iMars XG3KTR- AU	iMars XG4KTR- AU	iMars XG5KTR- AU	iMars XG6KTR- AU	iMars XG8KTR- AU
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)	250-850 Vd.c.	250-850 Vd.c.	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	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	50/60 Hz				
Maximum continuous output current	4.3 Aa.c.	5.8 Aa.c.	7.2 Aa.c.	8.7 Aa.c.	11.6 Aa.c.
Rate output active power	3 kW	4 kW	5 kW	6 kW	8 kW
Maximum output apparent power	3 kVA	4 kVA	5 kVA	6 kVA	8 kVA
Power factor	0.8 leading ~ 0.8 lagging				
General					
Operating temperature range	-30°C ~+60°C (derating above at 45°C)				
Protection class	I				
Ingress protection	IP66				
Operating altitude range	≤4000m				

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Model:	iMars XG9KTR- AU	iMars XG10KTR- AU	iMars XG11KTR- AU	iMars XG12KTR- AU	iMars XG15KTR1 - AU
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	1/2	1/2	1/2	1/2	1/2
Maximum continuous input current	14/28 Ad.c.	14/28 Ad.c.	14/28 Ad.c.	14/28 Ad.c.	14/28 Ad.c.
Isc PV	18/36 Ad.c.	18/36 Ad.c.	18/36 Ad.c.	18/36 Ad.c.	18/36 Ad.c.
AC output rating					
Rated output voltage	3/N/PE, 230/400Va.c.				
Rated output frequency	50/60Hz				
Maximum continuous output current	13 Aa.c.	14.5 Aa.c.	16 Aa.c.	17.4 Aa.c.	21.7 Aa.c.
Rate output active power	9 kW	10 kW	11 kW	12 kW	15 kW
Maximum output apparent power	9 kVA	10 kVA	11 kVA	12 kVA	15 kVA
Power factor	0.8 leading ~ 0.8 lagging				
General					
Operating temperature range	-30°C ~+60°C (derating above at 45°C)				
Protection class	I				
Ingress protection	IP66				
Operating altitude range	≤4000m				

**Tested
according to:**

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