

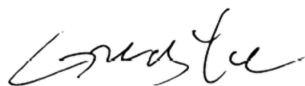
Certificate of Conformity

Certificate Number: CN-PV-230677

On the basis of the tests undertaken, the samples of the below product have been found to comply with the requirements of the referenced specification/standard at the time the tests were carried out. It does not imply that Intertek has performed any surveillance or control of the manufacture. The manufacturer 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:	Hybrid Solar Storage System
Ratings & Principle Characteristics:	See appendix of Certificate of Conformity
Model:	See appendix of Certificate of Conformity
Brand Name:	invt
Product Complies with:	CEI 0-21: 2022-03 + V1:2022-11: Reference technical rules for the connection of active and passive users to the LV electrical Utilities
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 Number:	230209059GZU-001, dated 28 Nov 2023 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: 30 November 2023



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-230677

Test item description.....:	Hybrid Solar Storage System
Trademark.....:	inv
Manufacturer.....:	Same as applicant
Model/Type reference.....:	Inverter conversion device: iMars XD3KTL, iMars XD3K6TL, iMars XD4KTL, iMars XD4K6TL, iMars XD5KTL, iMars XD6KTL Brands: inv Batteries and BMS - Battery Management System Battery module model: GRP5.12-WLV Battery pack: GRP5.12-WLV High voltage control model: the inverter will work as controller Brands: inv
Inverter Firmware Version.....:	V1.0
Number of phases.....:	Single-phase
Nominal Power.....:	3000W (iMars XD3KTL), 3680W (iMars XD3K6TL), 4000W (iMars XD4KTL), 4600W (iMars XD4K6TL), 5000W (iMars XD5KTL), 6000W (iMars XD6KTL)
Type.....:	Bidirectional
CUS (useful capacity of the storage system).....:	5.12kWh~76.8kWh
Psn (nominal discharge power):	See following table for details
Pcn (nominal charge power).....:	See following table for details
Psm (maximum discharge power).....:	See following table for details
Pcm (maximum charge power).....:	See following table for details
BMS Firmware Version 1.....:	LV-001-V1.7

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Model	iMars XD3KTL	iMars XD3K6TL	iMars XD4KTL	iMars XD4K6TL	iMars XD5KTL	iMars XD6KTL
	Pcmax/Psmax(W)					
GRP5.12-WLV	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *2	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *3	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *4	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *5	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *6	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *7	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *8	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *9	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *10	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *11	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *12	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *13	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *14	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
GRP5.12-WLV *15	3000/3000	3600/3600	4000/4000	4600/4600	5000/5000	5120/5120
Remark: Ps= Psmax, Pcn= Pcmax						

Battery		CUS (useful capacity of the storage system)	
Model	Manufacturer	Capacity of per battery module (kWh)	Number of basic modules recommended by the manufacturer
GRP5.12-WLV	INVT Solar Technology (Shenzhen) Co., Ltd.	5.12	1-15
Note: Batteries are not integrated within the inverter and shall be installed according to local regulation.			

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This is an Appendix to Certificate of Conformity Number: CN-PV-230677

Model	iMars XD3KTL	iMars XD3K6TL	iMars XD4KTL
Input Date (PV)			
Max. PV Voltage	600Vd.c		
Isc PV	2*20Ad.c		
Max. input current	2*16Ad.c		
Output Date (AC)			
Rated output Power	3000VA	3680VA	4000VA
Rated grid voltage	230Va.c		
Nominal frequency	50Hz		
Max. output current	15Aa.c	16Aa.c	20Aa.c
Power factor range	-0.8~+0.8		
EPS parameter			
Max. AC output Power	3000VA	3680VA	4000VA
Rated AC voltage	230Va.c		
Rated AC frequency	50Hz		
Max. AC output current	15Aa.c	16Aa.c	20Aa.c
Power factor range	-0.8~+0.8		
Battery parameter			
Battery Type	Lithium		
Normal voltage	51.2V		
Operating voltage range	40~60V		
Max. charging current	100Ad.c		
Max. discharging current	100Ad.c		
Other			
Operation Ambient Temperature	-30℃ ~ +60℃		
Protection level	IP66		

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Model	iMars XD4K6TL	iMars XD5KTL	iMars XD6KTL
Input Date (PV)			
Max. PV Voltage	600Vd.c		
Isc PV	2*20Ad.c		
Max. input current	2*16Ad.c		
Output Date (AC)			
Rated output Power	4600VA	5000VA	6000VA
Rated grid voltage	230Va.c		
Nominal frequency	50Hz		
Max. output current	20.9Aa.c	22.7Aa.c	30.0Aa.c
Power factor range	-0.8~+0.8		
EPS parameter			
Max. AC output Power	4600VA	5000VA	6000VA
Rated AC voltage	230Va.c		
Rated AC frequency	50Hz		
Max. AC output current	20.9Aa.c	22.7Aa.c	30Aa.c
Power factor range	-0.8~+0.8		
Battery parameter			
Battery Type	Lithium		
Normal voltage	51.2V		
Operating voltage range	40~60V		
Max. charging current	100Ad.c		
Max. discharging current	100Ad.c		
Other			
Operation Ambient Temperature	-30℃ ~ +60℃		
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TYPE OF APPARATUS: Hybrid Solar Storage System			
Number of phases: Single-phase			
DISCONNECTION DEVICE	INTERFACE PROTECTION DEVICE	DEVICE FOR CONVERSION	ROTATING GENERATOR DEVICE
☒	☒	☒	
Static converters in systems with capacity up to 11.08 kW The devices are capable to limit Idc to 0.5% of the rated grid current Having examined the ISO 9001 certificate of the manufacturer No: FM 741214 issued by: BSI GROUP ASSURANCE LIMITED			

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