

# Certificate of Conformity

Certificate Number: CN-PVES-240167

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.

<b>Applicant:</b>	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.
<b>Product:</b>	Hybrid Solar Storage System
<b>Ratings &amp; Principle Characteristics:</b>	See appendix of Certificate of Conformity
<b>Model:</b>	See appendix of Certificate of Conformity
<b>Brand Name&lt;s&gt;:</b>	invt
<b>Product Complies with:</b>	CEI 0-21: 2022-03 + V1:2022-11: Reference technical rules for the connection of active and passive users to the LV electrical Utilities
<b>Certificate Issuing Office Name &amp; Address:</b>	Intertek Testing Services Ltd. Shanghai West Area, 2 <sup>nd</sup> 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
<b>Test Report No.&lt;s&gt;:</b>	230821138GZU-002, dated 23 April 2024 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: 25 April 2024**



PRD N° 306B

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## APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PVES-240167

Test item description .....	Hybrid Solar Storage System
Trade Mark .....	invt
Manufacturer .....	Same as applicant
Model/Type reference .....	Inverter conversion device: iMars XD5KTR, iMars XD6KTR, iMars XD8KTR, iMars XD10KTR, iMars XD12KTR Brands: invt Batteries and BMS - Battery Management System Battery module model: GRP2.56-S3HV, GRP2.56-S4HV, GRP2.56-S5HV, GRP2.56-S6HV, GRP2.56-S7HV, GRP2.56-S8HV, GRP2.56-S9HV, GRP2.56-S10HV Battery pack: LiFePO4 High voltage control model: the inverter will work as controller Brands: invt
Inverter Firmware Version .....	213-213-0-0323
Number of phases .....	three-phase
Nominal Power .....	5000W (iMars XD5KTR), 6000W (iMars XD6KTR), 8000W (iMars XD6KTR), 10000W (iMars XD10KTR), 12000W (iMars XD12KTR)
Type .....	Bidirectional
CUS (useful capacity of the storage system) .....	7.68kWh~102.4kWh
Psn (nominal discharge power) .....	See following table for details
Pcn (nominal charge power) .....	See following table for details
Psmax (maximum discharge power) :	See following table for details
Pcmax (maximum charge power) ....:	See following table for details
BMS Firmware Version for system ...:	P9727V120-30337-2.02-004

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Battery module model	iMars XD5KTR	iMars XD6KTR	iMars XD8KTR	iMars XD10KTR	iMars XD12KTR
	Pcmax/Psmax(W)				
GRP2.56-S3HV	5000/5000	6000/6000	7680/7680	7680/7680	7680/7680
GRP2.56-S4HV	5000/5000	6000/6000	8000/8000	10000/10000	10240/10240
GRP2.56-S5HV	5000/5000	6000/6000	8000/8000	10000/10000	12000/12000
GRP2.56-S6HV	5000/5000	6000/6000	8000/8000	10000/10000	12000/12000
GRP2.56-S7HV	5000/5000	6000/6000	8000/8000	10000/10000	12000/12000
GRP2.56-S8HV	5000/5000	6000/6000	8000/8000	10000/10000	12000/12000
GRP2.56-S9HV	5000/5000	6000/6000	8000/8000	10000/10000	12000/12000
GRP2.56-S10HV	5000/5000	6000/6000	8000/8000	10000/10000	12000/12000

Remark: Psn= Psmax, Pcn= Pcmax

Battery			CUS (useful capacity of the storage system)			
Battery module model	Battery pack* Number recommended by the manufacturer	Manufacturer	Capacity of per battery pack (kWh)	Capacity of Battery module model (kWh)	Number of Battery module model recommended by the manufacturer	Capacity range of Battery module model (kWh)
GRP2.56-S3HV	LiFePO4*3	INVT Solar Technology (Shenzhen) Co., Ltd.	2.56	7.68	1-4	7.68-30.72
GRP2.56-S4HV	LiFePO4*4			10.24		10.24-40.96
GRP2.56-S5HV	LiFePO4*5			12.8		12.8-51.2
GRP2.56-S6HV	LiFePO4*6			15.36		15.36-61.44
GRP2.56-S7HV	LiFePO4*7			17.92		17.92-71.68
GRP2.56-S8HV	LiFePO4*8			20.48		20.48-81.92
GRP2.56-S9HV	LiFePO4*9			23.04		23.04-92.16
GRP2.56-S10HV	LiFePO4*10			25.6		25.6-102.4

Note: Batteries are not integrated within the inverter and shall be installed according to local regulation.

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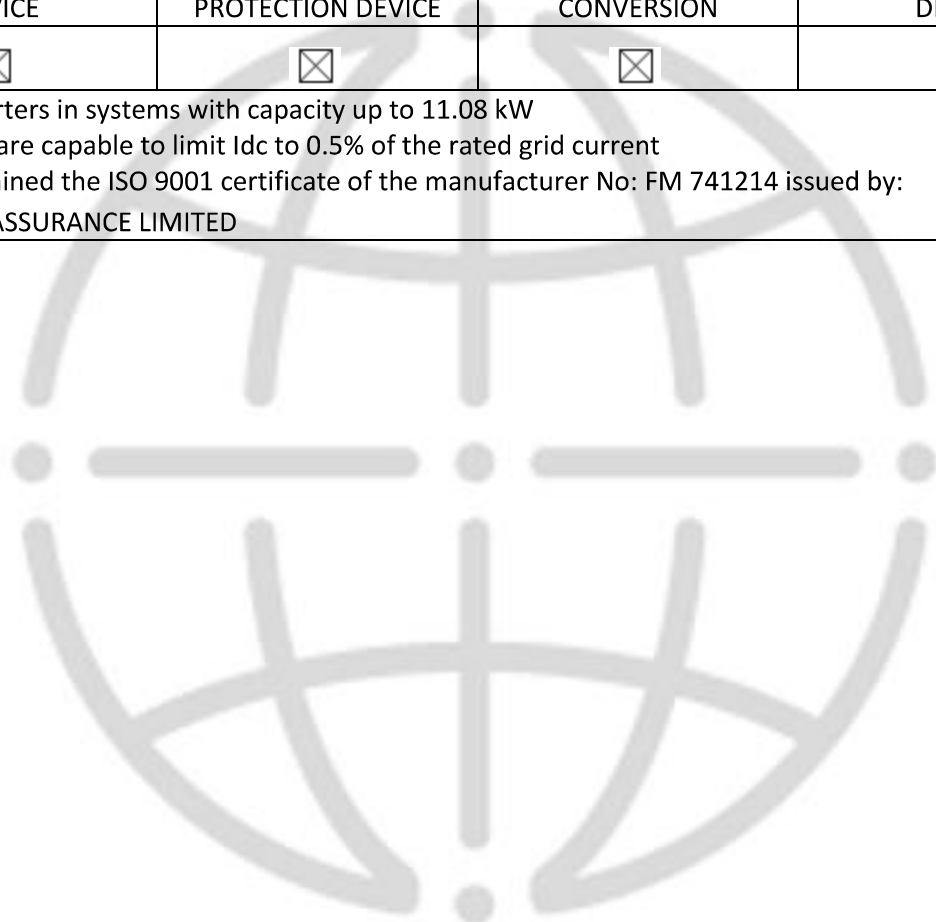
Model	iMars XD5KTR	iMars XD6KTR	iMars XD8KTR	iMars XD10KTR	iMars XD12KTR
Input Date (PV)					
Maximum input voltage	1100Vd.c				
Maximum input current	20Ad.c*2				
Isc PV	40Ad.c*2				
MPPT voltage range	160~1000Vd.c				
Output Date (AC)					
Rated output Power	5000W	6000W	8000W	10000W	12000W
Maximum output apparent power	5500VA	6600VA	8800VA	11000VA	13200VA
Rated output voltage	3/N/PE, 230/400Va.c				
Rated output frequency	50Hz				
Max. output current (pure phase)	8.3Aa.c	10Aa.c	13.3Aa.c	16.7Aa.c	20Aa.c
Power factor	0.8 leading - 0.8 lagging				
Input Date (AC)					
Maximum input power	7500W	9000W	12000W	15000W	18000W
Rated input voltage	3/N/PE, 230/400Va.c, 220/380Va.c				
Rated input frequency	50/60Hz				
Maximum input current (pure phase)	11.4Aa.c	13.6Aa.c	18.2Aa.c	22.7Aa.c	27.3Aa.c
Backup terminal parameter (AC)					
Maximum output power	5000W	6000W	8000W	10000W	12000W
Rated output voltage	3/N/PE, 230/400Va.c, 220/380Va.c				
Rated output frequency	50/60Hz				
Rated output current (pure phase)	7.2Aa.c	8.7Aa.c	11.6Aa.c	14.5Aa.c	17.4Aa.c
Battery					
Battery Type	Li-ion Lead-acid				
Rated voltage	240Vd.c				
Operating voltage range	120-600				
Max. Charging/ discharging current	50Ad.c				
Max. Charging/ discharging Power	5000W	6000W	8000W	10000W	12000W
Others					
Ingress protection	IP66				
Protective Class	Class I				
Operating Temperature Range	-25°C~60°C				
Software version	213-213-0-0323				

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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
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	
<p>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</p>			



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