

Certificate of Conformity

Certificate Number: CN-PV-220207

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. 6 th 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:	Inverter conversion device: BD3KTL-RL1, BD3K6TL-RL1, BD4KTL-RL1, BD4K6TL-RL1, BD5KTL-RL1, BD6KTL-RL1 Batteries and BMS - Battery Management System Battery module model: CFE-5100 Battery pack: CFE-5100 High voltage control model: BSB7-100 Battery module model: VT48100E-P1 Battery pack: VT48100E-P1 High voltage control model: IPB042N10N3
Brand Name:	invt
Product Complies with:	CEI 0-21:2022: 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:	220916022GZU-001 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: 26 September 2022



PRD N° 306B

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APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220207

Test item description	Hybrid Solar Storage System
Trade Mark	invt
Manufacturer	Same as applicant
Model/Type reference	Inverter conversion device: BD3KTL-RL1, BD3K6TL-RL1, BD4KTL-RL1, BD4K6TL-RL1, BD5KTL-RL1, BD6KTL-RL1 Brands: invt Batteries and BMS - Battery Management System Battery module model: CFE-5100 Battery pack: CFE-5100 High voltage control model: BSB7-100 Brands: CFE Batteries and BMS - Battery Management System Battery module model: VT48100E-P1 Battery pack: VT48100E-P1 High voltage control model: IPB042N10N3
Inverter Firmware Version	Brands: VESTWOODS
Number of phases	V1.0
Nominal Power	Single-phase 3000W (R3KL1), 3680W (R3K6L1), 4000W (R4KL1)
Type	4600W (R4K6L1), 5000W (R5KL1), 6000W (R6KL1)
CUS (useful capacity of the storage system)	Bidirectional
Psn (nominal discharge power)	4.8kWh
Pcn (nominal charge power)	3800W(CFE-5100), 4800W(VT48100E-P1)
Psmax (maximum discharge power) :	3000W(CFE-5100), 4800W(VT48100E-P1)
Pcmax (maximum charge power)	3800W(CFE-5100), 4800W(VT48100E-P1)
BMS Firmware Version	3000W(CFE-5100), 4800W(VT48100E-P1) V0146(CFE-5100), V1.9(VT48100E-P1)

Battery		CUS (useful capacity of the storage system)	
Basic Model	Manufacturer	Capacity of per battery module (kWh)	Number of Battery pack
CFE-5100	CF Energy Co., Ltd.	4.8	1
VT48100E-P1	Hangzhou Vestwoods Technology Co., LTD.	4.8	1

Note:

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

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Model	BD3KTL- RL1	BD3K6TL- RL1	BD4KTL- RL1	BD4K6TL- RL1	BD5KTL- RL1	BD6KTL- RL1
Max. PV voltage	550 d.c.V					
MPPT voltage range	125-500 d.c.V					
PV Isc	17.5 d.c.A					
Max. input current	14 d.c.A					
Max. DC voltage	550 d.c.V					
DC voltage range	125-550 d.c.V					
Max. DC current	14/14 d.c.A					
Type of battery	Lithium battery					
Capacity of battery	4.8kWh					
Nominal input / output power [W]	3000/ 3000	3680/ 3680	4000/ 4000	4600/ 4600	5000/ 5000	6000/ 6000
Max. apparent power [VA]	3000	3680	4000	4600	5000	6000
Nominal output voltage	230 a.c.V					
Nominal input/output current [a.c.A]	13/13	16/16	17.4/17.4	20/20	21.7/21.7	26/26
Nominal Frequency	50/60Hz					
Power factor range	0.99 Leading – 0.99 lagging					
Safety level	Class I					
Ingress Protection	IP 65					
Operation Ambient Temperature	-25°C - +60°C					
Software version	V 1.0					

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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 I_{dc} 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>			

