

Certificate of Conformity

Certificate Number: CN-PV-220207R1

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:

Ratings & Principle

Characteristics:

Model:

Hybrid Solar Storage System
See appendix of Certificate of Conformity

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, VT48100E-P2
Battery pack: VT48100E-P1, VT48100E-P2
High voltage control model: IPB042N10N3
invt

Brand Name:

Product Complies with:

**Certificate Issuing Office
Name & Address:**

CEI 0-21:2022: Reference technical rules for the connection of active and passive users to the LV electrical Utilities
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
221117058GZU-001 Issued by Intertek Testing Services Shenzhen Ltd.
Guangzhou Branch accredited by IAS (TL-395) in accordance with ISO/IEC 17025:2017

Test Report Number:

Replaces certificate CN-PV-220207 dated 26 September 2022

Additional information in Appendix



PRD N° 306B

Signature

Certification Manager: Grady Ye

Date: 22 November 2022

This Certificate is for the exclusive use of Intertek's client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this Certificate. Only the Client is authorized to permit copying or distribution of this Certificate. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek.

APPENDIX: Certificate of Conformity

This is an Appendix to Certificate of Conformity Number: CN-PV-220207R1

Test item description	Hybrid Solar Storage System
Trade Mark	inv
Manufacturer	Same as applicant
Model/Type reference	Inverter conversion device: BD3KTL-RL1, BD3K6TL-RL1, BD4KTL-RL1, BD4K6TL-RL1, BD5KTL-RL1, BD6KTL-RL1 Brands: inv 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, VT48100E-P2 Battery pack: VT48100E-P1, VT48100E-P2 High voltage control model: IPB042N10N3 Brands: V-TAC
Inverter Firmware Version	V1.0
Number of phases	Single-phase
Nominal Power	3000W (BD3KTL-RL1), 3680W (BD3K6TL-RL1), 4000W (BD4KTL-RL1), 4600W (BD4K6TL-RL1), 5000W (BD5KTL-RL1), 6000W (BD5KTL-RL1)
Type	Bidirectional
CUS (useful capacity of the storage system)	See below table for details
Psn (nominal discharge power)	3800W(CFE-5100), 4800W(VT48100E-P1, VT48100E-P2)
Pcn (nominal charge power)	3000W(CFE-5100), 4800W(VT48100E-P1, VT48100E-P2)
Psm (maximum discharge power) :	3800W(CFE-5100), 4800W(VT48100E-P1, VT48100E-P2)
Pcm (maximum charge power)	3000W(CFE-5100), 4800W(VT48100E-P1, VT48100E-P2)
BMS Firmware Version	V0146(CFE-5100), V1.9(VT48100E-P1, VT48100E-P2)

Battery	CUS (useful capacity of the storage system)	
Basic Model	Capacity of per battery module (kWh)	Number of Battery pack
CFE-5100	4.8	1
VT48100E-P1	4.8	1
VT48100E-P2	5.12	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	17.5/17.5 d.c.A					
Max. input current	14/14 d.c.A					
Battery voltage range	40-58 d.c.V					
Max. charging current	95 d.c.A					
Max. discharging current	62.2 d.c.A	76.6 d.c.A	83.3 d.c.A	95.8 d.c.A	104.2 d.c.A	110 d.c.A
Type of battery	Lead-acid/Lithium battery					
Capacity of battery	4.8/5.12kWh					
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
☒	☒	☒	
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: C36822Q3220465R0S, issued by: Ench Inspection & Certificaton Service (Shanghai) Co., Ltd.			

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Stock Code: SZ 002334

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DECLARATION OF PRODUCT MODEL

Data: 2022/12/09

Dear Sir or Madam:

We, Invt Solar Technology(Shenzhen) Co., Ltd hereby declare that the below V-TAC models of On-grid solar inverters and Hybrid solar inverters are OEM products manufactured originally in Invt factory and developed base on the Invt Solar's standard MG series & BG series & XG series & BD series:

Item	Invt model#	V-TAC model#	Remark
1	MG3KTL-2M	VT-6603105	5year warranty
2	MG3KTL-2M	VT-6603110	10year warranty
3	MG5KTL-2M	VT-6605105	5year warranty
4	MG5KTL-2M	VT-6605110	10year warranty
5	BG5KTR	VT-6605305	5year warranty
6	BG8KTR	VT-6608305	5year warranty
7	BG10KTR	VT-6610305	5year warranty
8	XG5KTR	VT-6605310	10year warranty
9	XG8KTR	VT-6608310	10year warranty
10	XG10KTR	VT-6610310	10year warranty
11	BD8KTR-RH3	VT-6608303	3year warranty
12	BD3K6TL-RL1	VT-66036103	3year warranty
13	BD5KTL-RL1	VT-6606103	3year warranty
14	BD5KTL-RL1	VT-6607103	5year warranty

Except the logo and carton box design difference, they're sharing the same dimension design, hardware and firmware with the Invt models.

For and on behalf of
深圳市英威腾光伏科技有限公司
INVT Solar Technology (Shenzhen) Co.,Ltd

Please contact us if there would be need for any additional clarification or information.....

Authorized Signature(s)

Sincerely,

INVT Solar Technology (Shenzhen) Co., Ltd.