

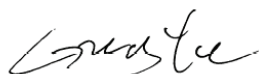
# Certificate of Conformity

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.

<b>Applicant:</b>	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
<b>Product:</b>	Hybrid Solar Storage System
<b>Ratings &amp; Principle Characteristics:</b>	See appendix of Certificate of Conformity
<b>Model:</b>	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
<b>Brand Name:</b>	inv
<b>Product Complies with:</b>	CEI 0-21:2022: 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 Number:</b>	221117058GZU-001 Issued by Intertek Testing Services Shenzhen Ltd. Guangzhou Branch accredited by IAS (TL-395) in accordance with ISO/IEC 17025:2017

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**

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## 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 .....	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, 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)
Psmax (maximum discharge power) :	3800W(CFE-5100), 4800W(VT48100E-P1, VT48100E-P2)
Pcmax (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)	
	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:

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

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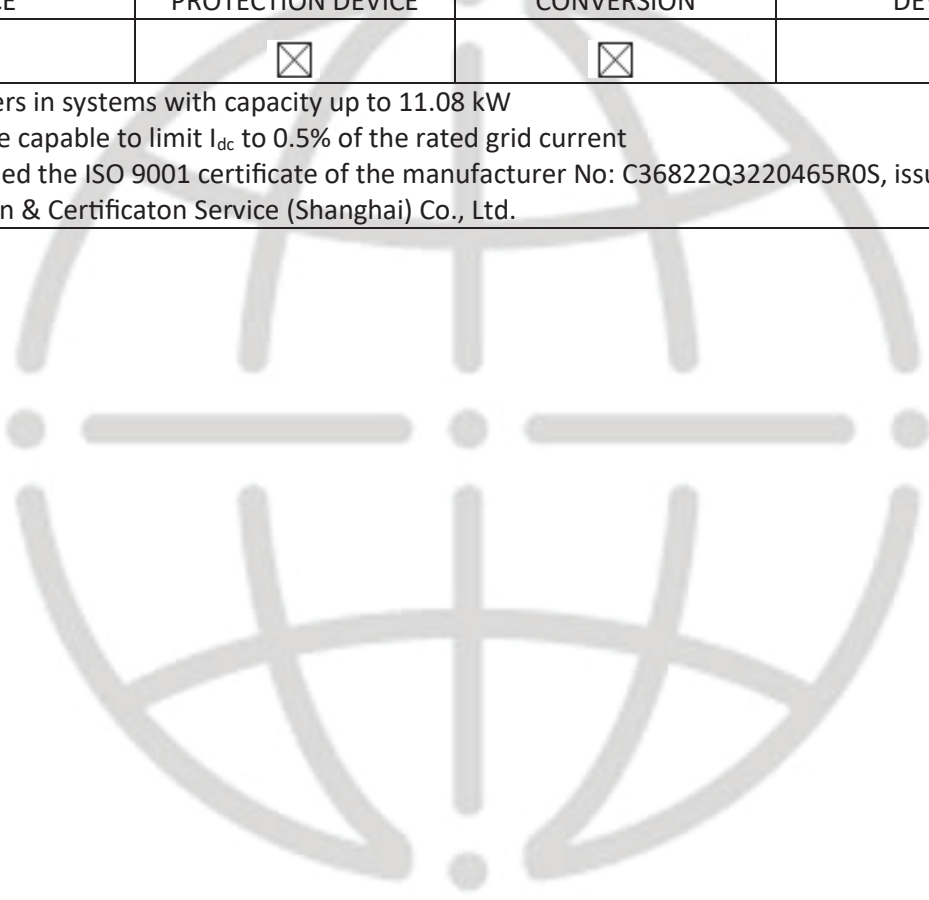
Model	BD3KTL-RL1	BD3K6TL-RL1	BD4KTL-RL1	BD4K6TL-RL1	BD5KTL-RL1	BD6KTL-RL1
Max. PV voltage	550 d.c.V					
MPPT voltage range	125-500 d.c.V					
PV Isc	17.5/17.5 d.c.A					
Max. input current	14/14 d.c.A					
Battery voltage range	40-58 d.c.V					
Max. charging current	95 d.c.A					
Max. discharging current	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
<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 <math>I_{dc}</math> to 0.5% of the rated grid current            Having examined the ISO 9001 certificate of the manufacturer No: C36822Q3220465R0S, issued by:            Ench Inspection &amp; Certificaton Service (Shanghai) Co., Ltd.</p>			



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