

CERTIFICATE

of conformity with the following European Directives
Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

INVT Solar Technology (ShenZhen) Co., Ltd

6th Floor, Block A, INVT Guangming Technology Building, Kejie Fourth Road, Shutianpu Community, Matian, Guangming District, Shenzhen, PEOPLE'S REPUBLIC OF CHINA

comply to the essential requirements of the above mentioned European Directive and the following standards, taking into account the German national deviations:

Product(s):	Hybrid Solar Inverter
Model type(s):	BD3KTL-RL1,BD3K6TL-RL1,BD4KTL-RL1,BD4K6TL-RL1,BD5KTL-RL1,BD6KTL-RL1
Standard(s):	EN 62109-1:2010, EN 62109-2:2011

This certificate of conformity is based on the evaluation of samples of the product. It does not imply an assessment of the production and it does not permit the use of a mark of conformity or of a safety mark of the TÜV NORD CERT GmbH. The holder of this certificate may use this Certificate together with his EC-Declaration of Conformity.

Registered no.:	44 799 21 406749 - 017
Test report no.:	492011628.001
File no.:	PVP02046/21E-05



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2021-03-17

TÜV NORD CERT GmbH Langemarckstraße 20 45141 Essen www.tuev-nord-cert.de prodcert@tuev-nord.de

Please also pay attention to the information stated overleaf.



The CE marking may be affixed on the product if all relevant and effective Directives are complied with.



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Description of product(s):

Model type	BD3KTL-RL1		
General information			
Safety class	Class II	Relative humidity	0-95%
IP grade	IP65	Altitude.....	2000m
Type of Isolation	Non Isolated	Operating temperature	-25-+60°C (> 45 derating)
Firmware [DSP / MCU]	V1.01.01	LCD [version].....	V1.00.01
Weight.....	25kg	Size (W x D x H) [mm].....	550×520×200
Number of DC connection:	2 PV&1 Battery		
DC input(PV)			
Max. input voltage.....	500Vd.c.	Isc	17.5*2 Ad.c.
MPP Voltage Range	125-500Vd.c.	MPP Full Power Voltage Range:	150-500Vd.c.
Max. Input Current	14Ad.c.	MPPT tracking	2
Max. input Power.....	4.6kW	-	-
Battery parameter			
Battery Rated Voltage	48Vd.c	Cut off Voltage	40 Vd.c.
Max. Charging Voltage	58Vd.c	Max. Charging Current	95 Ad.c
Max. Discharging Current	62.5 Ad.c	Max. Charging Power	5kW
Max. Discharging Power	3kW		
AC output (On-grid)			
Max. Output Apparent Power	3kVA	Max. Output Current.....	13Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz



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Power Factor $\cos\phi$ [λ]..... :	[-0.99,0.99]	-	-
AC output (Back-up)			
Max. Output Apparent Power :	3kVA	Max. Output Current..... :	13Aa.c.
Rated voltage..... :	230Va.c.	Rated Frequency	50/60Hz

Model type	BD3K6TL-RL1		
General information			
Safety class	Class II	Relative humidity	0-95%
IP grade	IP65	Altitude.....	2000m
Type of Isolation	Non Isolated	Operating temperature	-25-+60°C (> 45 derating)
Firmware [DSP / MCU]..... :	V1.01.01	LCD [version].....	V1.00.01
Weight..... :	25kg	Size (W x D x H) [mm].....	550×520×200
Number of DC connection:	2 PV&1 Battery		
DC input(PV)			
Max. input voltage..... :	500Vd.c.	Isc	17.5*2 Ad.c.
MPP Voltage Range	125-500Vd.c.	MPP Full Power Voltage Range:	150-500Vd.c.
Max. Input Current	14Ad.c.	MPPT tracking.....	2
Max. input Power	4.6kW	-	-
Battery parameter			
Battery Rated Voltage	48Vd.c	Cut off Voltage	40 Vd.c.
Max. Charging Voltage	58Vd.c	Max. Charging Current	95 Ad.c
Max. Discharging Current	75 Ad.c	Max. Charging Power	5kW



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Max. Discharging Power	3.6kW		
AC output (On-grid)			
Max. Output Apparent Power	3.6kVA	Max. Output Current.....	16Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz
Power Factor cosφ [λ].....	[-0.99,0.99]	-	-
AC output (Back-up)			
Max. Output Apparent Power	3.6kVA	Max. Output Current.....	16Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz

Model type	BD4KTL-RL1		
General information			
Safety class	Class II	Relative humidity	0-95%
IP grade	IP65	Altitude.....	2000m
Type of Isolation	Non Isolated	Operating temperature	-25-+60°C (> 45 derating)
Firmware [DSP / MCU]	V1.01.01	LCD [version].....	V1.00.01
Weight.....	25kg	Size (W x D x H) [mm].....	550×520×200
Number of DC connection:	2 PV&1 Battery		
DC input(PV)			
Max. input voltage.....	500Vd.c.	Isc	17.5*2 Ad.c.
MPP Voltage Range	125-500Vd.c.	MPP Full Power Voltage Range:	150-500Vd.c.
Max. Input Current	14Ad.c.	MPPT tracking.....	2
Max. input Power.....	6kW	-	-



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Battery parameter			
Battery Rated Voltage	48Vd.c	Cut off Voltage	40 Vd.c.
Max. Charging Voltage	58Vd.c	Max. Charging Current	95 Ad.c
Max. Discharging Current	83.3 Ad.c	Max. Charging Power	5kW
Max. Discharging Power	4kW		
AC output (On-grid)			
Max. Output Apparent Power	4kVA	Max. Output Current.....	17.4Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz
Power Factor cosφ [λ].....	[-0.99,0.99]	-	-
AC output (Back-up)			
Max. Output Apparent Power	4kVA	Max. Output Current.....	17.4Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz

Model type	BD4K6TL-RL1		
General information			
Safety class	Class II	Relative humidity	0-95%
IP grade	IP65	Altitude.....	2000m
Type of Isolation	Non Isolated	Operating temperature	-25-+60°C (> 45 derating)
Firmware [DSP / MCU]	V1.01.01	LCD [version].....	V1.00.01
Weight.....	25kg	Size (W x D x H) [mm].....	550×520×200
Number of DC connection:	2 PV&1 Battery		
DC input(PV)			



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Max. input voltage..... :	500Vd.c.	Isc	17.5*2 Ad.c.
MPP Voltage Range	125-500Vd.c.	MPP Full Power Voltage Range:	170-500Vd.c.
Max. Input Current	14Ad.c.	MPPT tracking.....	2
Max. input Power..... :	6kW	-	-
Battery parameter			
Battery Rated Voltage	48Vd.c.	Cut off Voltage	40 Vd.c.
Max. Charging Voltage	58Vd.c.	Max. Charging Current	95 Ad.c
Max. Discharging Current	95.8 Ad.c	Max. Charging Power	5kW
Max. Discharging Power	4.6kW		
AC output (On-grid)			
Max. Output Apparent Power :	4.6kVA	Max. Output Current.....	20Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz
Power Factor cosφ [λ]..... :	[-0.99,0.99]	-	-
AC output (Back-up)			
Max. Output Apparent Power :	4.6kVA	Max. Output Current.....	20Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz

Model type	BD5KTL-RL1		
General information			
Safety class	Class II	Relative humidity	0-95%
IP grade	IP65	Altitude.....	2000m
Type of Isolation	Non Isolated	Operating temperature	-25-+60°C (> 45 derating)



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Firmware [DSP / MCU]	V1.01.01	LCD [version].....	V1.00.01
Weight.....	25kg	Size (W x D x H) [mm].....	550×520×200
Number of DC connection:	2 PV&1 Battery		
DC input(PV)			
Max. input voltage.....	500Vd.c.	Isc	17.5*2 Ad.c.
MPP Voltage Range	125-500Vd.c.	MPP Full Power Voltage Range:	180-500Vd.c.
Max. Input Current	14Ad.c.	MPPT tracking.....	2
Max. input Power.....	7kW	-	-
Battery parameter			
Battery Rated Voltage	48Vd.c	Cut off Voltage	40 Vd.c.
Max. Charging Voltage	58Vd.c	Max. Charging Current	95 Ad.c
Max. Discharging Current	104.2 Ad.c	Max. Charging Power	5kW
Max. Discharging Power	5kW		
AC output (On-grid)			
Max. Output Apparent Power	5kVA	Max. Output Current.....	21.7Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz
Power Factor cosφ [λ].....	[-0.99,0.99]	-	-
AC output (Back-up)			
Max. Output Apparent Power	5kVA	Max. Output Current.....	21.7Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz



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Model type	BD6KTL-RL1		
General information			
Safety class	Class II	Relative humidity	0-95%
IP grade	IP65	Altitude.....	2000m
Type of Isolation	Non Isolated	Operating temperature	-25-+60°C (> 45 derating)
Firmware [DSP / MCU].....	V1.01.01	LCD [version].....	V1.00.01
Weight.....	25kg	Size (W x D x H) [mm].....	550×520×200
Number of DC connection:	2 PV&1 Battery		
DC input(PV)			
Max. input voltage.....	500Vd.c.	Isc	17.5*2 Ad.c.
MPP Voltage Range	125-500Vd.c.	MPP Full Power Voltage Range:	220-500Vd.c.
Max. Input Current	14Ad.c.	MPPT tracking.....	2
Max. input Power.....	7kW	-	-
Battery parameter			
Battery Rated Voltage	48Vd.c	Cut off Voltage	40 Vd.c.
Max. Charging Voltage	58Vd.c	Max. Charging Current	95 Ad.c
Max. Discharging Current	110 Ad.c	Max. Charging Power	5kW
Max. Discharging Power	5kW		
AC output (On-grid)			
Max. Output Apparent Power	6kVA	Max. Output Current.....	26Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency.....	50/60Hz
Power Factor cosφ [λ].....	[-0.99,0.99]	-	-



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AC output (Back-up)			
Max. Output Apparent Power :	6kVA	Max. Output Current.....:	26Aa.c.
Rated voltage..... :	230Va.c.	Rated Frequency.....:	50/60Hz



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