

CERTIFICATE

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

This certifies that below described products of the applicant:

Shenzhen Megarevo Technology Co., Ltd.
4th Floor, Block 2, INVT Guangming Technology Building
Shutianpu Community, Matian Neighborhood
Guangming New District, Shenzhen, 518106, P.R. 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):	R3KL1/R3K6L1/R4KL1/R4K6L1/ R5KL1/R6KL1
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 20 406749 - 004
Test report no.:	492011366.001
File no.:	SHV04096/19-01



TÜV NORD CERT GmbH
Certification Body
Energy Storage System

Essen, 2020-01-21

TÜV NORD CERT GmbH

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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.



ANNEX

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to Certificate registration no. 44 799 20 406749 - 004

Description of product(s):

Model type	R3KL1		
General information			
Safety class.....	Class II	Relative humidity	0-95%
IP grade	IP65	Altitude	2000m
Type of Isolation.....	Non Isolated	Number of DC connection:	2 PV&1 Battery
Firmware [DSP / MCU]	V1.01.01	LCD [version]	V1.00.01
Weight.....	25kg	Size (W x D x H) [mm]	550×520×200
Operating temperature.....	-25-+60°C (> 45 derating)		
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.	Battery Voltage Range	40-58Vd.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
Power Factor cosφ [λ].....	[-1,1]	-	-
AC output (Back-up)			
Max. Output Apparent Power	3kVA	Max. Output Current	13Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz

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Model type	R3K6L1		
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.	Battery Voltage Range	40-58Vd.c.
Max. Charging Current	95 Ad.c	Max. Discharging Current	76.6 Ad.c
Max. Charging Power	5kW	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].....	[-1,1]	-	-
AC output (Back-up)			
Max. Output Apparent Power	3.6kVA	Max. Output Current	16Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz

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Model type	R4KL1		
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	-	-
Battery parameter			
Battery Rated Voltage	48Vd.c.	Battery Voltage Range	40-58Vd.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].....	[-1,1]	-	-
AC output (Back-up)			
Max. Output Apparent Power	4kVA	Max. Output Current	17.4Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz

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Model type	R4K6L1		
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:	170-500Vd.c.
Max. Input Current	14Ad.c.	MPPT tracking	2
Max. input Power	6kW	-	-
Battery parameter			
Battery Rated Voltage	48Vd.c	Battery Voltage Range	40-58Vd.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].....	[-1,1]	-	-
AC output (Back-up)			
Max. Output Apparent Power	4.6kVA	Max. Output Current	20Aa.c.
Rated voltage.....	230Va.c.	Rated Frequency	50/60Hz

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Model type..... :	R5KL1		
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:	180-500Vd.c.
Max. Input Current	14Ad.c.	MPPT tracking	2
Max. input Power	7kW	-	-
Battery parameter			
Battery Rated Voltage	48Vd.c.	Battery Voltage Range	40-58Vd.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..... :	5kVA	Max. Output Current	21.7Aa.c.
Rated voltage	230Va.c.	Rated Frequency	50/60Hz
Power Factor cosφ [λ]	[-1,1]	-	-
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..... :	R6KL1		
General information			
Safety class..... :	Class II	Relative humidity	0-95%
IP grade..... :	IP65	Altitude	2000m
Type of Isolation..... :	Non Isolated	Number of DC connection:	2 PV&1 Battery
Firmware [DSP / MCU]	V1.01.01	LCD [version]	V1.00.01
Weight..... :	25kg	Size (W x D x H) [mm]	550×520×200
Operating temperature	-25-+60°C(> 45 derating)		
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	-	-

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Battery parameter			
Battery Rated Voltage	48Vd.c	Battery Voltage Range	40-58Vd.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].....	[-1,1]	-	-
AC output (Back-up)			
Max. Output Apparent Power.....	6kVA	Max. Output Current	26Aa.c.
Rated voltage	230Va.c.	Rated Frequency	50/60Hz

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 1 of test report.

