

# CERTIFICATE

of conformity with the following European Directives

## Low Voltage Directive 2014/35/EU

This certifies that below described products of the applicant:

### Renac Power Technology Co., Ltd.

Block C-12, No. 20 Datong Road, Comprehensive Bonded Zone,  
Suzhou Hi-Tech District, Suzhou, China

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

<b>Product(s):</b>	Grid-connected PV Inverter
<b>Model type(s):</b>	R3-75K, R3-LV-75K, R3-100K, R3-110K3, R3-110K, R3-110K1, R3-110K2, R3-125K2, R3-125K3, R3-125K5, R3-125K6, R3-125K7, R3-125K, R3-125K1, R3-125K8, R3-125K9

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. The CE marking may be affixed on the product if all relevant and effective Directives are complied with, under full responsibility of the holder.

Certification program:	P33-VA-01 Rev. 02 / 04.20
Certification fundamental(s):	EN 62109-1:2010; EN 62109-2:2011
Registered no.:	44 799 24 406749 - 423
Report no.:	492013503.001
File no.:	PVP10147/24B-01



TÜV NORD CERT GmbH  
Certification Body  
Balance of System (BOS) for Photovoltaics

Essen, 2024-12-16

# ANNEX

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**Description of product(s):**

Model	R3-LV-75K	R3-75K	R3-100 K	R3-110 K3	R3-110 K	R3-110 K1	R3-110 K2
<b>PV terminal</b>							
Vmax [V d.c.]	800	1100					
MPP voltage range [V d.c.]	200-800	200-1000					
Isc [V d.c.]	60	60	48	60	48	60	60
Imax [V d.c.]	45	45	32	45	32	45	45
Number of MPPT tracking	9	8	9	6	9	8	7
String of each MPPT	2	2	2	3	2	2	2
<b>AC terminal</b>							
Rated output voltage [V a.c.]	127/220, 3W+PE(+N)	220/380, 3W+PE(+N)	230/400, 3W+PE(+N)				
Rated output frequency [Hz]	50/60						
Rated output current [A a.c.]	196.9	113.7	144.9	159.4	159.4	159.4	159.4
Max. output current [A a.c.]	196.9	113.7	159.4	175.4	175.4	175.4	175.4
Rated output power [kW]	75	75	100	110	110	110	110
Max. apparent power[kVA]	75	75	110	121	121	121	121



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Power factor	0.8 lagging to 0.8 leading
<b>General</b>	
Ambient temperature [°C]	-30 ~60
Ingress protection	IP66
Protective class	I
Firmware version	DSP1: V0.1.0, DSP2: V1.3.0, ARM: V3.0.0

Model	R3-12 5K2	R3-12 5K3	R3-12 5K5	R3-12 5K6	R3-12 5K7	R3-12 5K	R3-12 5K1	R3-12 5K8	R3-125K9
<b>PV terminal</b>									
Vmax [V d.c.]	1100								
MPP voltage range [V d.c.]	200-1000								
Isc [V d.c.]	60	48	60	60	60	48	60	60	60
Imax [V d.c.]	45	32	45	45	45	32	45	45	45
Number of MPPT tracking	6	9	8	7	6	9	8	7	8
String of each MPPT	3	2	2	2	3	2	2	2	2
<b>AC terminal</b>									
Rated output	230/400, 3W+PE(+N)								220/380,



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voltage [V a.c.]									3W+PE(+N)
Rated output frequency [Hz]	50/60								
Rated output current [A a.c.]	181.2	181.2	181.2	181.2	181.2	181.2	181.2	181.2	189.4
Max. output current [A a.c.]	199.3	199.3	199.3	199.3	181.2	181.2	181.2	181.2	197.0
Rated output power [kW a.c.]	125	125	125	125	125	125	125	125	125
Max. apparent power[kVA a.c.]	137.5	137.5	137.5	137.5	125	125	125	125	130
Power factor	0.8 lagging to 0.8 leading								
<b>General</b>									
Ambient temperature [°C]	-30 ~60								
Ingress protection	IP66								
Protective class	I								
Firmware version	DSP1: V0.1.0, DSP2: V1.3.0, ARM: V3.0.0								

Remark:

For detailed product information, please refer to CDF (Constructional Data Form) in Annex 3 of evaluation report.

