



**BUREAU
VERITAS**

Certificate of compliance

Applicant: **Renac Power Technology Co., Ltd.**
Block C-12, No. 20 Datong Road, Comprehensive Bonded Zone, Suzhou Hi-Tech District, Suzhou
China

Product: **Battery inverter with PV input**

Model: **N3-14.9K, N3-15K, N3-19.9K, N3-20K, N3-25K, N3-29.9K, N3-30K,
N3-14.9K1, N3-15K1, N3-19.9K1, N3-20K1, N3-25K1, N3-29.9K1,
N3-30K1**

Inverter for three-phase parallel connection to the public grid. The network monitoring and disconnection device is an integral part of the above-mentioned model.

Applied rules and standards:

IEC 61727:2004

Photovoltaic (PV) systems – Characteristics of the utility interface

IEC 62116:2014

Test procedure of islanding prevention measures for utility-interconnected photovoltaic inverters

At the time of issue of this certificate, the safety concept of an aforementioned representative product corresponds to the valid safety specifications for the specified use in accordance with regulations.

Report number: **ABRE-ESH-P24110272-1** **Certification Program:** **NSOP-0032-DEU-ZE-V10**
ABRE-ESH-P24110272-2

Certificate number: **U24-1144** **Date of issue:** **2024-11-29**

Certification body

Accreditation



Accredited certification body by Deutsche Akkreditierungsstelle GmbH (DAkkS) according to ISO/IEC 17065. The accreditation is valid only for the scope listed in the annex of the accreditation certificate D-ZE-12024-01-00. The Deutsche Akkreditierungsstelle GmbH (DAkkS) is signatory of the multilateral arrangements of EA, ILAC and IAF for mutual recognition.

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Type Approval and declaration of compliance with the requirements of IEC 61727:2004, IEC 62116:2014				
Manufacturer	Renac Power Technology Co., Ltd. Block C-12, No. 20 Datong Road, Comprehensive Bonded Zone, Suzhou Hi-Tech District, Suzhou China			
Product type	Battery inverter with PV input			
Static converter model	N3-14.9K, N3-14.9K1	N3-15K, N3-15K1	N3-19.9K, N3-19.9K1	N3-20K, N3-20K1
Input (PV DC)				
MPP voltage range [V]	180-960	180-960	180-960	180-960
Max. input voltage [V]	1000	1000	1000	1000
Max. input current per MPPT [A]	36/36/36	36/36/36	36/36/36	36/36/36
Output (AC)				
Rated AC voltage [V]	3L/N/PE, 220/380, 230/400, 50/60Hz	3L/N/PE, 220/380, 230/400, 50/60Hz	3L/N/PE, 220/380, 230/400, 50/60Hz	3L/N/PE, 220/380, 230/400, 50/60Hz
Rated output current [A]	22,6	22,8	30,2	30,3
Max. output current [A]	22,6	25,0	30,2	33,4
Nom. converter output (P _{NINV}) [W]	14900	15000	19900	20000
Rated apparent power [VA]	14900	16500	19900	22000
Static converter model	N3-25K, N3-25K1	N3-29.9K, N3-29.9K1	N3-30K, N3-30K1	--
Input (PV DC)				
MPP voltage range [V]	180-960	180-960	180-960	--
Max. input voltage [V]	1000	1000	1000	--
Max. input current per MPPT [A]	36/36/36	36/36/36	36/36/36	--
Output (AC)				
Rated AC voltage [V]	3L/N/PE, 220/380, 230/400, 50/60Hz	3L/N/PE, 220/380, 230/400, 50/60Hz	3L/N/PE, 220/380, 230/400, 50/60Hz	--
Rated output current [A]	37,9	45,4	45,5	--
Max. output current [A]	41,7	45,4	50,0	--
Nom. converter output (P _{NINV}) [W]	25000	29900	30000	--
Rated apparent power [VA]	27500	29900	33000	--
Interface protection system and interface switch (Network and system protection "NS-protection")				
Type of protection	Integrated NS-protection			
Assigned to generation unit type	N3-14.9K, N3-15K, N3-19.9K, N3-20K, N3-25K, N3-29.9K, N3-30K, N3-14.9K1, N3-15K1, N3-19.9K1, N3-20K1, N3-25K1, N3-29.9K1, N3-30K1			
Integrated interface switch	Type of switching equipment 1: Relay (Model HF167F12-HF) Type of switching equipment 2: Relay (Model HF167F12-HF)			

Note: The output is switched off by the inverter bridge and two relay in series in each line and neutral.

Firmware version	1.00
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Note

The settings of the interface protection are password protected adjustable.

In case the above stated generators are used with an external protection device, the protection settings of the inverters are to be adjusted according to the manufacturer's declaration.

The above stated generators are tested according to the requirements in the EN 50549-1:2019 Commission Regulation (EU) 2016/631 of 14 April 2016. Any modification that affects the stated tests must be named by the manufacturer/supplier of the product to ensure that the product meets all requirements.