

Certificate of Conformity

Registered No.:

COCVP07020/21E-01

File reference
PVP07020/21E-01

Test report No.
TRPVP07020/21E/01

Date of issue
2021-10-26

On the basis of the tests undertaken, the samples of the below product(s) have been found to comply with the essential requirements of the referenced specifications at the time the tests were carried out:

Applicant: **Renac Power Technology Co., Ltd**
Building 6, No.2, West Jinzhi Road, High-Tech District, Suzhou City,
Jiangsu Province, China

Manufacturer: **Renac Power Technology Co., Ltd**
Building 6, No.2, West Jinzhi Road, High-Tech District, Suzhou City,
Jiangsu Province, China

Factory : **Renac Power Technology Co., Ltd**
Building 6, No.2, West Jinzhi Road, High-Tech District, Suzhou City,
Jiangsu Province, China

Product: HYBRID INVERTER

Type designation: ESC3000-DS, ESC3680-DS, ESC5000-DS
Single-phase, Firmware version: 0.1

Type of equipment: ☒ Interface device
☒ Interface protection
☒ Static conversion device
☐ Rotary generation device
Remark: The device is for power plants which below 11.08kVA.

Certification fundamental(s): BOS-P-01 Rev. 00

Standard(s): CEI 0-21:2019-04 "Reference technical rules for the connection of active
and passive users to the LV electrical Utilities"
See test report for detailed information.

Certification body: **TÜV NORD (HANGZHOU) CO., LTD.**
Room 217, Building 17, No.57 Kejiyuan Road, Baiyang Street, HEDA,
Hangzhou, Zhejiang Province 310018, China



Renewable Energy

ESS-T-012 COC



中国认可
产品
PRODUCT
CNAS C183-P

TÜV NORD (HANGZHOU) CO., LTD.
Member of TÜV NORD Group
Tel: +86-571-85386989
Fax: +86-571-85386986
www.tuv-nord.com/cn
P.R. China

Accredited by CNAS according to ISO/IEC 17065:2012, certificate no. CNAS C183-P.

Testing laboratory:

Dongguan BALUN Testing Technology Co., Ltd.

Room 104/204/205, Building 1, No. 6, Industrial South Road, Songshan Lake District, Dongguan, Guangdong, China

Accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

Conclusion:

After verifying following documents, it is concluded that the product is in compliance with the requirements of CEI 0-21:2019-04.

☒ ISO 9001 certificate:

Certificate no. ARES/CN/I1912131Q, issued by ARES International Certification Co., Ltd.

☒ Test report of CEI 0-21:2019-04:

Report no. BL-DG2180512-B01, issued by Dongguan BALUN Technology Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L14701

☒ Test report of EMC:

Report no. ABRE-ESH-P200319018B-A2, issued by LCIE China Company Limited, accredited by A2LA according to ISO/IEC 17025:2017, certificate no. 2343.01.

Report no. C20-317-WT, issued by Shanghai Inspection and Testing Institute of Instruments and Automation Systems Co., Ltd., accredited by CNAS according to ISO/IEC 17025:2017, certificate no. CNAS L0130

This document is based on the evaluation of the samples of the above mentioned product(s). It does not imply an assessment of the mass-production of the product(s), and it does not permit the use of a TÜV NORD mark. The holder of this document may use it in connection with the related test report(s).



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Version 1.2

Description of product(s):

Model types:	ESC3000-DS	ESC3680-DS	ESC5000-DS
General information			
Firmware:	0.1		
PV input			
Vmax PV [V d.c.]:	580		
Mpp voltage range [V d.c.]:	100 - 550		
Isc PV [A d.c.]:	17/17		
Max. input current [A d.c.]:	13.5/13.5		
Overvoltage category (OVC):	II		
AC output (Grid Side) parameters			
Rated output voltage [V a.c.]:	230		
Raged output frequency [Hz]:	50/60		
Rated output power [W]:	3000	3680	5000
Max. output current [A a.c.]:	13	16	21.7
Power factor cosφ [λ]:	0.8 leading - 0.8 lagging		
Overvoltage category (OVC):	III		
Battery parameters			
Battery Type:	Lithium or lead-acid		
Voltage range[V d.c.]:	40 - 60		
Max. Charge Current [Ad.c.]:	60		
Max. Discharge Current [Ad.c.]:	60		
EPS parameters:			
Rated EPS voltage [V a.c.]:	230		
Rated EPS power [W]:	3000		



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Rated. EPS current [A a.c.]:	13
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Remark: The inverters listed above may be installed with the following batteries:

The inverters listed above may be installed with the following batteries:					
Manufacturer	Renac Power Technology Co., Ltd.				
Accumulator Model / Battery Model	PC-3.58	PC-7.16	PC-10.74	PC-14.32	LV48070 Plus
Capacity of each battery module (kWh)	3.58				
Number(s) of battery modules recommended by the manufacturer	1	2	3	4	1
<p>Note:</p> <p>The batteries are not integrated into the inverter and must be installed according to the local regulations.</p>					



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