

# Compliance Document

No. D 120820 0007 Rev. 00

**Holder of Certificate:** **Renac Power Technology Co., Ltd.**  
Block C-12, No. 20 Datong Road, Comprehensive Bonded Zone  
Suzhou Hi-Tech District  
215004 Suzhou  
PEOPLE'S REPUBLIC OF CHINA

**Product:** **Converter  
(Hybrid Inverter)**

This Compliance document confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted for testing and certification and does not certify the quality or safety of the serial products. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290233195101

**Date,** 2023-11-21



( Billy Qiu )

# Compliance Document

No. D 120820 0007 Rev. 00

**Model(s):** **N3-HB-50.0**

## Parameters:

Model:	N3-HB-50.0
<b>PV input parameter</b>	
Maximum input voltage	1000 Vd.c.
MPPT voltage range	350~800 Vd.c.
MPPT voltage range (full load)	667~750 Vd.c.
Maximum input current	3*36 Ad.c.
PV I <sub>SC</sub>	3*40 Ad.c.
<b>Battery input/output parameter</b>	
Battery type	Lithium-ion
Input voltage range	350~750 Vd.c.
Maximum input/output voltage	750Vd.c.
Maximum charging current	2*55 Ad.c.
Maximum charging power	55000 W
Maximum discharging current	2*55 Ad.c.
Maximum discharging power	55000 W
<b>Grid parameter</b>	
Rated input/output voltage	230/400 Va.c., 3/N/PE
Rated input/output frequency	50 Hz
Maximum input current	80 Aa.c.
Maximum input active power	50000 W
Maximum input apparent power	55000 VA
Maximum input active power from grid to battery	50000 W
Rated output current	72 Aa.c.
Maximum continuous output current	80 Aa.c.
Rated output active power	50000 W
Maximum output active power	50000 W
Maximum output apparent power	55000 VA
Maximum output active power from battery to grid (without PV input)	50000 W
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)

# Compliance Document

No. D 120820 0007 Rev. 00

License condition:

- (1) The grid connection protection system is evaluated according to DIN VDE 0126-1-1 (VDE V 0126-1-1):2013-08, specially with consideration of "Enedis-PRO-RES\_10E - Description and study of decoupling protections for the connection of Generation Facilities connected to the Public Distribution Network (Version 6)". The setting of the integrated protection system of DIN VDE 0126-1-1 (VDE V 0126-1-1):2013-08 is as follows:  
Over voltage (stage 1: 10 min. mean value): 1.10 Un;  
Over voltage (stage 2): 1.15 Un;  
Under voltage: 0.80 Un;  
Over frequency: 51.5 Hz;  
Under frequency: 47.5 Hz.
- (2) The installation of this Hybrid Energy Storage Inverter in the plant shall further comply with "Guide Pratique XP C 15-712-3:2016, Photovoltaic installations with storage device and connected to a public distribution network" and other suitable regulations.

**Tested  
according to:**

DIN VDE 0126-1-1:2013