



Product Service

# CERTIFICATE

No. B 120820 0001 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

**Certification Mark:**



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

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: [www.tuvsud.com/ps-cert](http://www.tuvsud.com/ps-cert)

**Test report no.:** 64290233051501

**Valid until:** 2028-02-16

**Date,** 2023-05-10

( Billy Qiu )

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No. B 120820 0001 Rev. 00

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

## Parameters:

Model:	N3-HB-50.0
PV input terminal parameters:	
Maximum input voltage	1000 V d.c.
MPPT voltage range	350 V d.c. ~ 800 V d.c.
MPPT voltage range (full load)	667 V d.c. ~ 750 V d.c.
Maximum continuous PV input current	36/36/36 A d.c.
Maximum PV short circuit current	40/40/40 A d.c.
Maximum continuous PV input power	75 kW
Battery input/output terminal parameters:	
Battery type	Lithium-ion battery
Rated voltage	512 V d.c.
Battery voltage range	350 V d.c. ~ 750 V d.c.
Rated charging power	50 kW
Maximum charging current	55/55 A d.c.
Rated discharging power	50 kW
Maximum discharging current	55/55 A d.c.
AC input/output terminal parameters:	
Rated voltage	400 V a.c., 3W/PE
Rated frequency	50 / 60 Hz
Maximum continuous current	80 A a.c.
Maximum active power	50 kW
Maximum apparent power	55 kVA
Power factor	0.9 leading to 0.9 lagging
General	
Operating temperature range	-25 °C ~ 60 °C (Derating above 45 °C)
Protection class	I
Ingress protection	IP65
Operating altitude range	≤3000m

**Tested according to:** IEC 62109-1:2010  
 EN 62109-1:2010  
 IEC 62109-2:2011  
 EN 62109-2:2011  
 IEC 62477-1:2012/AMD1:2016  
 EN 62477-1:2012/A12:2021