



Product Service

# CERTIFICATE

No. B 120820 0009 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, Certification, Validation and Verification 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.:** 64290243067701

**Valid until:** 2029-07-07

**Date,** 2024-07-08

( Billy Qiu )

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Model(s): **N3-30K-E, N3-40K, N3-49.9K, N3-50K**

## Parameters:

Model:	N3-30K-E	N3-40K	N3-49.9K	N3-50K
<b>PV input terminal parameters:</b>				
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	45000 W	60000 W	75000 W	75000 W
<b>Battery input/output terminal parameters:</b>				
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	30000 W	40000 W	49900 W	50000 W
Maximum charging current	55/55 A d.c.			
Rated discharging power	30000 W	40000 W	49900 W	50000 W
Maximum discharging current	55/55 A d.c.			
<b>AC input terminal parameters:</b>				
Rated input voltage	230/400 V a.c., 3W/N/PE			
Rated input frequency	50 / 60 Hz			
Maximum continuous input current	47.9 A a.c.	63.8 A a.c.	79.6 A a.c.	80 A a.c.
Maximum continuous input active power	30000 W	40000 W	49900 W	50000 W
Maximum continuous input apparent power	33000 VA	44000 VA	54890 VA	55000 VA
<b>AC output rating parameters:</b>				
Rated output voltage	230/400 V a.c., 3W/N/PE			
Rated output frequency	50 / 60 Hz			
Maximum continuous output current	47.9 A a.c.	63.8 A a.c.	79.6 A a.c.	80 A a.c.
Maximum continuous output active power	30000 W	40000 W	49900 W	50000 W
Maximum continuous output apparent power	33000 VA	44000 VA	54890 VA	55000 VA
Power factor	0.9 inductive(under-excited) to 0.9 capacitive(over-excited)			
<b>General</b>				
Operating temperature range	-25 °C ~ 60 °C (Derating above 45 °C)			
Protection class	I			
Ingress protection	IP65			



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