



Product Service

# Compliance Document

No. D 120820 0012 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 with Storage Battery System)**

**Model(s):** **Converter models: N3-30K-E, N3-40K, N3-49.9K, N3-50K**  
**Battery System models: BS80-E, BS90-E, BS100-E**

**Parameters:** See Page 2-3

**Tested according to:** CEI 0-21:2022  
CEI 0-21:2022/V1:2022  
CEI 0-21:2022/V2:2024

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.:** 64290243068001

**Date,** 2024-11-28

( Billy Qiu )



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**Parameters:**

Model	N3-30K-E	N3-40K	N3-49.9K	N3-50K
<b>PV terminal parameters</b>				
Maximum PV voltage [V <sub>DC</sub> ]	1000			
Rated voltage [V <sub>DC</sub> ]	667			
MPPT voltage range [V <sub>DC</sub> ]	350-800			
MPPT voltage range (full load) [V <sub>DC</sub> ]	667-750			
Maximum input current [A <sub>DC</sub> ]	36/36/36			
Isc PV [A <sub>DC</sub> ]	40/40/40			
MPPT tracker number	3			
Maximum input power [W]	45000	60000	75000	75000
<b>Battery input/output parameters</b>				
Battery type	Lithium-ion			
Maximum voltage [V <sub>DC</sub> ]	750			
Battery rated voltage [V <sub>DC</sub> ]	512			
Battery voltage range [V <sub>DC</sub> ]	350-750			
Maximum charge power [W]	33000	44000	54890	55000
Maximum discharge power [W]	33000	44000	54890	55000
Maximum charge current [A <sub>DC</sub> ]	55/55			
Maximum discharge current [A <sub>DC</sub> ]	55/55			
<b>Grid terminal input/output parameters</b>				
Rated input/output voltage [V <sub>AC</sub> ]	3/N/PE, 230/400			
Rated input/output frequency [Hz]	50			
Rated output current [A <sub>AC</sub> ]	43.5	58.0	72.4	72.5
Maximum continuous input/output current [A <sub>AC</sub> ]	47.9	63.8	79.6	80.0
Rated input/output active power [W]	30000	40000	49900	50000
Maximum continuous input/output active power [W]	30000	40000	49900	50000
Maximum continuous input/output apparent power [VA]	33000	44000	54890	55000
Power factor range	0.9 inductive to 0.9 capacitive			



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Battery system model	BS80-E	BS90-E	BS100-E
Number of battery pack	8	9	10
Maximum voltage [V <sub>DC</sub> ]	467.2	525.6	584.0
Rated voltage [V <sub>DC</sub> ]	409.6	460.8	512.0
Battery voltage range [V <sub>DC</sub> ]	358.4-467.2	403.2-525.6	448.0-584.0
Maximum charge/discharge current [A <sub>DC</sub> ]	102.0		
Rate capacity of battery [kWh]	83.6	94.0	104.4
Usable capacity of battery [kWh]	83.6	94.0	104.4



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The following generators meet the requirements of CEI 0-1:2022+V1:2022+V2:2024					
Section A	Manufacturer	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			
	Equipment type	Hybrid Inverter with storage battery system			
	Brand	RENAC			
	N. phases	<input type="checkbox"/> Single phase <input checked="" type="checkbox"/> Three phase Frequency: 50Hz Voltage: 230/400V <sub>AC</sub>			
	Primary energy used	<input checked="" type="checkbox"/> Solar <input checked="" type="checkbox"/> Storage <input type="checkbox"/> Wind <input type="checkbox"/> Hydroelectric <input type="checkbox"/> CHP <input type="checkbox"/> Other:			
	Generator model	N3-30K-E	N3-40K	N3-49.9K	N3-50K
	Nominal power	30000 W	40000 W	49900 W	50000 W
	Apparent power	33000 VA	44000 VA	54890 VA	55000 VA
	The generator:	<input checked="" type="checkbox"/> is suitable for installation in systems with an output power of more than 11.08 kW <input checked="" type="checkbox"/> is capable of limiting Idc to 0.5% of rated current: <input checked="" type="checkbox"/> uses a DC-sensitive protection function <input type="checkbox"/> uses a transformer operating at mains frequency			
Section C	Characteristics of the static converter				
	Static converter model	N3-30K-E	N3-40K	N3-49.9K	N3-50K
	Manufacturer of the static converter	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			
	Firmware version	REV001			
	Rated converter power (P <sub>NINV</sub> )	30000 W	40000 W	49900 W	50000 W



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Section E	Characteristics of the Storage System (SdA)			
	Converter forming storage system			
	Converter Manufacturer	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		
	Converter model	N3-30K-E	N3-40K	N3-49.9K N3-50K
	Battery forming storage system			
	Battery Manufacturer	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		
	Battery model	BS80-E	BS90-E	BS100-E
	Typology	<input checked="" type="checkbox"/> Bidirectional <input type="checkbox"/> Monodirectional		
	Remark: The Storage System parameters are referred to the report No.: 64.290.24.30680.01			
	Batteries that can be used with the above static converters			
	Brand	RENAC		
	Technology	LFP		
	Models	BS80-E	BS90-E	BS100-E
	CUS module (kWh)	83.6	94.0	104.4
	BMS firmware version	V1.2		
	N. of modules	8 pieces	9 pieces	10 pieces
	Note	Batteries are not contained in the inverter and should be installed according to local regulations and in accordance with Pylon instruction.		



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Section I	References of the laboratories that performed the tests and their test reports (RdP)	
	Chosen method	<input checked="" type="checkbox"/> Tests performed by an accredited laboratory
	Test Reports (RdP)	Test report according to Annex A & Annex Bbis: 64.290.24.30680.01
	Issued by	Testing lab: TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
	Accreditation No.	D-PL-19065-01-00
	Accreditation body ref.	DAkKS
Section M	Reference of the certification body	
	Certification Body	TÜV SÜD Product Service GmbH
		DAkKS accreditation certificate D-ZE-11321-01-00 according to DIN EN ISO/IEC 17065:2013