

blueplanet

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blueplanet 100 NX3/125 NX3

MULTI-MPPT STRING INVERTERS COMMERCIAL AND INDUSTRIAL PHOTOVOLTAIC SYSTEMS

The inverters for the industrial PV revolution.

100 and 125 kVA for complex rooftops (incl. retrofit)

8/10 MPPTs for flexible PV array design (2 strings per MPPT)

Up to 200% DC oversizing

Superior efficiencies due to SiC technology

Superior plant yield

Compatible with bifacial and high power PV modules

AC Daisy Chaining

Designed and manufactured in Germany

MADE IN GERMANY.

Test programs far above standard

Cyber security technology

Reactive power at night possible







kaco-newenergy.com

Technical Data.

Grid connection rule

Max. recommended PV generator power MPP range Operating range Rated DC voltage / start voltage Max. no-load voltage Max. no-load voltage Max. nopt current Max. short circuit current I _{scmax} Max. Number of MPP tracker Connection per tracker AC output data Rated output Max. power Line voltage Voltage range (Ph-Ph) Rated frequency (range) Rated current	200 000 W 550 - 850 V 200 - 1 000 V 620 V / 250 V 1 100 V 30 A per tracker 37.5 A per tracker 8 2 100 000 VA 100 000 VA 100 000 VA 400 V (3P+(N)+PE) 305 - 560 V 50 Hz / 60 Hz (45 - 65 Hz) 3 x 144.3 A 3 x 182.0 A 0.80 ind 0.80 cap.	250 000 W 550 - 850 V 200 - 1 000 V 620 V / 250 V 1 100 V 30 A per tracker 37.5 A per tracker 10 2 125 000 VA @ 400V 120 000VA @ 380V 125 000 VA 400 V (3P+(N)+PE) 305 - 560 V 50 Hz / 60 Hz (45 - 65 Hz) 3 x 180.4 A 3 x 182.0 A
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		<u> </u>
/lax. current	0.80 ind. – 0.80 cap.	J X 102.0 A
eactive power / cos phi		0.80 ind. – 0.80 cap.
1ax. total harmonic distortion (THD)	<u>≤ 3 %</u>	≤ 3 %
lumber of grid phases	3	3
ieneral data		
lax. efficiency	99.0%	99.1%
urop. efficiency	98.8%	98.7%
tandby consumption	4.8 W	4.8 W
ircuitry topology	transformerless	transformerless
Aechanical data		
Display	LEDs	LEDs
ontrol units	webserver, supports mobile devices	
nterfaces	Ethernet (Modbus TCP SunSpec), RS485 (Modbus RTU SunSpec) USB, Wifi (via Wifi Stick)	
ault signalling relay	potential-free NOC max. 30 V / 1 A	
C connection	PV connector (Phoenix, assembly without special tools)	
C connection	cable lug, max. 240 mm² (0.372 in²) Cu or Al	
mbient temperature	-25 °C – +60 °C ¹⁾	-25 °C – +60 °C 1)
łumidity	0 – 100 %	0 – 100 %
Aax. installation elevation (above MSL)	3 000 m	3 000 m
/in. distance from coast	C4 protection class	C4 protection class
Cooling	temperature controlled fan	temperature controlled fan
Protection class	IP66	IP66
loise emission	≤ 65 db (A)	≤ 65 db (A)
I x W x D	740 mm x 1023 mm x 330 mm	740 mm x 1023 mm x 330 mm
Neight	<85kg	
Certifications		

EN 55011 group 1, class A EN 62920 Emission class A

overview see homepage / download area

¹⁾ Power derating at high ambient temperatures

Versions	В	М	MF
AC surge protection	Type 2	Type 2 pluggable (Type 1+2 upgradeable)	Type 2 pluggable (Type 1+2 upgradeable)
DC surge protection	Type 2	Type 1+2 pluggable	Type 1+2 pluggable