



**MADE IN
GERMANY.**

blueplanet 100 NX3/125 NX3

**MULTI-MPPT STRING INVERTERS
COMMERCIAL AND INDUSTRIAL
PHOTOVOLTAIC SYSTEMS**

Inverters for the industrial PV revolution.

As early as 1999, KACO new energy revolutionized the solar industry with the first series-ready string inverter without transformer.

Today, our inverters can be found in photovoltaic markets worldwide and are prepared for systems of any size – from residential homes to decentralized multi-megawatt solar parks.

Since 2019, KACO new energy has been a subsidiary of Siemens AG and is still based in Germany.

With KACO new energy included.

- 25 years of experience and trust
- Designed and manufactured in Neckarsulm
- Exceeding the standard, extensive test programs
- Comprehensive service portfolio
- Advanced cyber security technology
- Small CO₂ footprint

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The blueplanet 100 NX3 M8 and 125 NX3 M10 are ideally suited for complex and irregular rooftop installations due to their flexible multi-MPPT technology. The two inverters offer many add-ons and are compatible with bifacial as well as high-power PV modules. SiC technology makes the blueplanet 100 NX3 and 125 NX3 efficiency leaders. In addition, they ensure a superior system yield and are particularly robust due to their specific component design.

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100 NX3/125 NX3

Technical Highlights.



Flexible

Two power ratings: 100 and 125 kVA for complex rooftops
8/10 MPPTs for flexible PV system design (2 strings per MPPT)
30 A input current per MPPT
Compatible with bifacial and high power PV modules



Efficient

Max. efficiency 99.0%
Wide DC voltage window: min. 250 V, max. 1000 V
Wide AC voltage range: 305 V – 560 V
Very late derating, no shutdown from 50 °C
Up to 200% DC oversizing



Reliable

IP66 rating for outdoor use
Integrated DC-switches
Test programs far above standard
With 4K26 climatic category for harsh environments
Vibration and shock tested



Smart

High number of interface options: LAN / RS485 / USB
Reactive power at night possible
Set up via Wifi
AC Daisychaining with 2 devices
Sophisticated maintenance concept, e.g. fan replacement

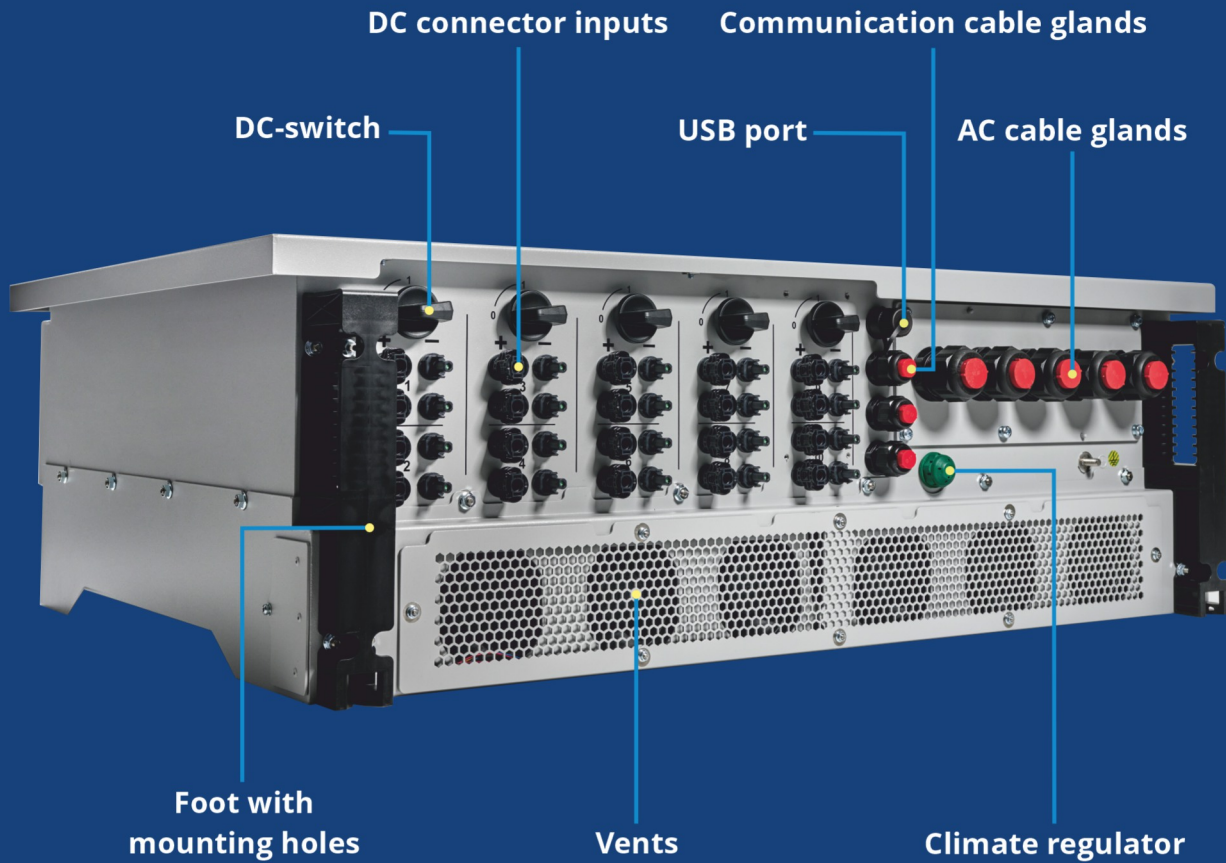


Convenient

Lightweight: 85 kg
Only basic tools needed
SUNCLIX connectors
Compact wall mount design

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Outer connection area of the inverters.



Throughout the entire development process of the blueplanet 100 NX3 and 125 NX3, we have focused on a strong overall package.

This means easy installation, comprehensive connectivity, high reliability and significant energy yields, in particular.

Our extensive service portfolio rounds it all off.

Christopher Mohr

Head of Project Management

Technical Data.

DC input data	100 NX3 M8	125 NX3 M10
Max. recommended PV generator power	200 000 W	250 000 W
MPP range	550 – 850 V	550 – 850 V
Operating range	200 – 1 000 V	200 – 1 000 V
Rated DC voltage / start voltage	620 V / 250 V	620 V / 250 V
Max. no-load voltage	1 100 V	1 100 V
Max. input current	30 A per tracker	30 A per tracker
Max. short circuit current $I_{sc\ max}$	37.5 A per tracker	37.5 A per tracker
Max. Number of MPP tracker	8	10
Connection per tracker	2	2
AC output data		
Rated output	100 000 VA	125 000 VA @ 400V 120 000VA @ 380V
Max. power	100 000 VA	125 000 VA
Line voltage	400 V (3P+(N)+PE)	400 V (3P+(N)+PE)
Voltage range (Ph-Ph)	305 – 560 V	305 – 560 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)	50 Hz / 60 Hz (45 – 65 Hz)
Rated current	3 x 144.3 A	3 x 180.4 A
Max. current	3 x 182.0 A	3 x 182.0 A
Reactive power / cos phi	0.80 ind. – 0.80 cap.	0.80 ind. – 0.80 cap.
Max. total harmonic distortion (THD)	≤ 3 %	≤ 3 %
Number of grid phases	3	3
General data		
Max. efficiency	99.0%	99.1%
Europ. efficiency	98.8%	98.7%
Standby consumption	4.8 W	4.8 W
Circuitry topology	transformerless	transformerless
Mechanical data		
Display	LEDs	LEDs
Control units	webserver, supports mobile devices	
Interfaces	Ethernet (Modbus TCP SunSpec), RS485 (Modbus RTU SunSpec) USB, Wifi (via Wifi Stick)	
Fault signalling relay	potential-free NOC max. 30 V / 1 A	
DC connection	PV connector (Phoenix, assembly without special tools)	
AC connection	cable lug, max. 240 mm ² (0.372 in ²) Cu or Al	
Ambient temperature	-25 °C – +60 °C ¹⁾	-25 °C – +60 °C ¹⁾
Humidity	0 – 100 %	0 – 100 %
Max. installation elevation (above MSL)	3 000 m	3 000 m
Min. distance from coast	C4 protection class	C4 protection class
Cooling	temperature controlled fan	temperature controlled fan
Protection class	IP66	IP66
Noise emission	≤ 60 db (A)	≤ 60 db (A)
H x W x D	740 mm x 1023 mm x 330 mm	740 mm x 1023 mm x 330 mm
Weight	<85kg	<85kg
Certifications	IEC 62109-1/-2, EN 61000-6-1/-2/-4, EN 61000-3-11/-12, EN 55011 group 1, class A EN 62920 Emission class A	
Safety & EMC		
Grid connection rule	overview see homepage / download area	

¹⁾ Power derating at high ambient temperatures

Versions	B	M	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

Get in touch with us.

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Contact for installers

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