



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

Arc fault detection and interruption

SPD AC Type 2 / DC Type 1+2 pluggable and replaceable acc. to IEC 61643

Superior efficiencies due to SiC technology

Global MPP tracking

AC Daisy Chaining

Reactive power at night possible

Cyber security technology

Very late temperature derating

Integrated section switches

The text and figures reflect the current technical state at the time of printing. Subject to technical changes. Errors and omissions excepted. This current version replaces all older versions. Download the most current version at: www.kaco-newenergy.com

Technical Data.

Max. power	DC input data	100 NX3 M8	125 NX3 M10	
Departuring range 200 - 1 000 V 200 - 1 000 V	Max. recommended PV generator power	200 000 W	250 000 W	
		 550 – 850 V	550 – 850 V	
Sactor C. voltage Sactor V. 250 V Sactor V. 250 V		200 – 1 000 V	200 – 1 000 V	
Max. plus current 30 A per tracker 30 A per tracker 37.5 A per		620 V / 250 V	620 V / 250 V	
Max. plus current 30 A per tracker 30 A per tracker 37.5 A per	Max. no-load voltage	1 100 V	1 100 V	
Max. Number of MPP tracker 37.5 A per tracker 37.5 A per tracker 2 2 2		30 A per tracker		
Max. Number of MPP tracker 2 2 2 2 2 2 2 2 2	Max. short circuit current I _{sc max}		<u>.</u>	
AC output data Rated output 100 000 VA 125 000 VA ⊗ 400 V Max. power 100 000 VA 125 000 VA ⊗ 380 V Line voltage 400 V (3P+(N+PE) 400 V (3P+(N+PE) Voltage range (Ph-Ph) 300 - 460 V 300 - 460 V Rated furrent 3 x 144.3 A 3x 180.4 A Rated current 3 x 182.0 A 3x 182.0 A Max. current 3 x 182.0 A 3x 182.0 A Reactive power / os phi 0-60 % Snom / 0.80 ind 0.80 cap. 0-60 % Snom / 0.80 ind 0.80 cap. Max. total harmonic distortion (THD) \$3 % 3 % 3 % Number of grid phases 3 % 99.0 % 99.1 % General data 4 & W 4 & W 4 & W Wax. ethiciency 99.0 % 99.1 % 99.1 % Europ. efficiency 98.8 % 98.7 % 98.7 % Europ. efficiency 98.8 % 98.7 % 98.7 % Fourth of the fire	***************************************	8		
AC output 125 000 VA @ 400 V Rated output 100 000 VA 125 000 VA @ 480 V 113 464 V @ 360 V 113 500 VA 115 000 VA 115 00 VA 115 000 VA 115 000 VA 115 000 VA 115 000 VA 100 VA 115 000 VA 115 000 VA <td>Connection per tracker</td> <td></td> <td>2</td>	Connection per tracker		2	
Rated output 125 000 VA ⊕ 400 V 120 000 VA ⊕ 380 V 120 000 VA ⊕ 380 V 120 000 VA ⊕ 380 V 113 464 VA ⊕ 380 V (90% Unom) acc. to AR-N-VDE 4110 Max. power 100 000 VA 125 000 VA ⊕ 380 V (90% Unom) acc. to AR-N-VDE 4110 Max. power Line voltage 400 V (3P+(N)+PE) 400 V (3P+(N)+PE) 400 V (3P+(N)+PE) Voltage range (Ph-Ph) 300 – 460 V 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz (45 – 65 Hz) 50 Hz / 60 Hz /	<u> </u>			
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Max. power 100 000 VA 125 000 VA Line voltage 400 V (3p+(N)+PE) 400 V (3p+(N)+PE) Voltage range (Ph-Ph) 300 – 460 V 300 – 460 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 0-60 % 5nom / 0.80 ind. −0.80 cap. 0-60 % 5nom / 0.80 ind. −0.80 cap. Max. total harmonic distortion (THD) ≤ 3 % ≤ 3 % Max. drift diphases 3 a 3 General data 3 3 Max. efficiency 98.8 % 99.1 % Standby consumption 4.8 W 4.8 W Circutry topology transformerless transformerless Mechanical data LEDs LEDs USB, wiff (via Wiff Stick) Ethernet (Modbus TCP SunSpec), RS485 (Modbus RTU SunSpec) Interfaces Ethernet (Modbus TCP SunSpec), RS485 (Modbus RTU SunSpec) Interfaces Ethernet (Modbus TCP SunSpec), RS485 (Modbus RTU SunSpec) USB, wiff (via Wiff Stick) VS °C - +6	Rated output	100 000 VA	113 464 VA @ 360 V	
Line voltage			(90% Unom) acc. to AR-N-VDE 4110	
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Safety &EMC EN 55011 group 1, class A EN 62920 Emission class A	Cer unications	IFC C2400 44.2 EN 64000	6 1/ 3/ 4 EN 61000 3 11/ 13	
EN 62920 Emission class A	Safety 8.EMC			
	Jaiety acivic			
Overview see homenage / download area	Grid connection rule	overview see homepage / download area		

¹⁾ Power derating at high ambient temperatures

Versions	В	M	MF	L
AC surge protection	Type 2	Type 2 pluggable (Type 1+2 upgradeable)	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	Type 1+2 pluggable
Arc fault detection and interruption	-	-	-	Acc. to IEC 63027 region A



