



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

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)		$\leq 3\%$	$\leq 3\%$
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	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

