

blueplanet 100 NX3 – 125 NX3

Multi-MPPT string inverters for commercial and industrial photovoltaic systems.



The inverters for the industrial PV revolution.

Flexible multi-MPPT technology for Commercial and Industrial PV applications

Ideally suited for complex and inhomogeneous rooftop applications

Superior efficiencies due to SiC technology

Superior plant yield

Compatible with bifacial and high power modules

Designed and manufactured in Germany

High level of cyber security

Many add-ons



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	99.1%	99.1%
Europ. efficiency	98.7%	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 (KACO protocol), 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	≤ 65 db (A)	≤ 65 db (A)
H x W x D	740mm x 1023mm x 330mm	740mm x 1023mm x 330mm
Weight	84 kg	84 kg
Certifications		
Safety & EMC	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	
Grid connection rule	overview see homepage / download area	

¹⁾ Power derating at high ambient temperatures