

PRELIMINARY

blueplanet 25.0 – 33.0 NX3

Multi-MPPT inverters for
commercial solar PV plants



The power of independence.

Functional, robust design
offers easy and flexible ways of
installation

User-friendly apps for Wi-Fi setup
and monitoring

3 MPP trackers for versatility in
application (incl. retrofit)



DC input data		
	25.0 NX3	30.0 NX3
Max. recommended PV generator power	37 500 W	39 000 W
MPP range@rated power	180 – 1020 V	180 – 1020 V
Operating range	160 – 1100 V	160 – 1100 V
Rated DC voltage / start voltage	630 V / 200 V	630 V / 200 V
Max. no-load voltage	1100 V	1100 V
Max. input current	2 x 32 A	3 x 32 A
Max. short circuit current $I_{sc\ max}$	3 x 48 A	3 x 48 A
Number of MPP tracker	3	3
Connection per tracker	2	2
Max.input power per tracker	20 000 W	20 000W
AC output data		
Rated active power	25 000 W	30 000 W
Max. apparent power	25 000 VA	30 000 VA
Line voltage	220 V / 380 V (3 / 3-N-PE) 230 V / 400 V (3 / 3-N-PE) 240 V / 415 V (3 / 3-N-PE)	220 V / 380 V (3 / 3-N-PE) 230 V / 400 V (3 / 3-N-PE) 240 V / 415 V (3 / 3-N-PE)
Voltage range (Ph-Ph)	180 V – 305 V	180 V – 305 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)	50 Hz / 60 Hz (45 – 65 Hz)
Max. current	39.9 A	47.8 A
Reactive power / cos phi	0.8 overexcited – 0.8 underexcited	0.8 overexcited – 0.8 underexcited
Max. total harmonic distortion (THD)	<3 %	<3 %
Number of grid phases	3	3
General data		
Max. efficiency	98.4 %	98.4 %
Europ. efficiency	98.2 %	98.2 %
Standby consumption	<1 W	<1 W
Circuitry topology	transformerless	transformerless
Mechanical data		
Display	LED indication (status, fault, communication)	LED indication (status, fault, communication)
Communication Interface	WiFi / 4 G / RS485	WiFi / 4 G / RS485
DC connection	DC plugs (Phoenix Contact Sunclix)	DC plugs (Phoenix Contact Sunclix)
AC connection	plug-in connector	plug-in connector
Ambient temperature	-25 °C – +60 °C	-25 °C – +60 °C
Humidity	0 – 100 % (non-condensing)	0 – 100 % (non-condensing)
Max. installation elevation (above)	3 000 m	3 000 m
Climatic category (acc. to IEC 60721-3-4)	4K4H	4K4H
Cooling	active cooling	active cooling
Protection class	IP66	IP66
Noise emission	<50 db	<50 db
H x W x D	543 x 463 x 225 mm	543 x 463 x 225 mm
Weight	29 kg	29 kg
Certifications		
Safety	IEC 62109-1:2010 and -2:2011; EN 62311:2020; EN 61000-3-3:2013; EN 61000-3-11:2000; EN 61000-3-2:2014; EN 61000-3-12:2011; EN IEC 63000:2018	
EMC	EN 61000-6-2:2005/AC:2005; EN 62920:2017 Class A; EN 61000-6-3:2007 + A1:2011/AC:2012; EN 55011:2016+A1:2017 group 1, Class B; EN 62920:2017 Class B	
RED	EN 300 328 V2.2.2:2019; EN 301 489-1 V2.1.1/ V2.2.3; EN 301 489-17 V3.2.4	
Environment Temperature	IEC 60068-2-1, 2-2, 2-14, 2-30, 2-75	
IP-Code	EN 60529:1991/A2:2013/AC:2019-02	
Efficiency	IEC 61683; EN 50530:2013-12	
Grid connection rule	overview see homepage / download area	

DC input data		33.0 NX3
Max. recommended PV generator power		49 500 W
MPP range@rated power		180 – 1 020 V
Operating range		160 – 1 100 V
Rated DC voltage / start voltage		630 V / 200 V
Max. no-load voltage		1100 V
Max. input current		2 x 32 A / 1 x 40 A
Max. short circuit current $I_{sc\ max}$		2 x 48 A / 1 x 60 A
Number of MPP tracker		3
Connection per tracker		2
Max.input power per tracker		22 000 W
AC output data		
Rated active power		33 000 W
Max. apparent power		33 000 VA
Line voltage		220 V / 380 V (3 / 3-N-PE) 230 V / 400 V (3 / 3-N-PE) 240 V / 415 V (3 / 3-N-PE)"
Voltage range (Ph-Ph)		180 V – 305 V
Rated frequency (range)		50 Hz / 60 Hz (45 – 65 Hz)
Max. current		52.6 A
Reactive power / cos phi		0.8 overexcited – 0.8 underexcited
Max. total harmonic distortion (THD)		<3 %
Number of grid phases		3
General data		
Max. efficiency		98.4 %
Europ. efficiency		98.2 %
Standby consumption		<1 W
Circuitry topology		transformerless
Mechanical data		
Display		LED indication (status, fault, communication)
Communication Interface		WiFi / 4 G / RS485
DC connection		DC plugs (Phoenix Contact Sunclix)
AC connection		plug-in connector
Ambient temperature		-25 °C – +60 °C
Humidity		0 – 100 % (non-condensing)
Max. installation elevation (above)		3 000 m
Climatic category (acc. to IEC 60721-3-4)		4K4H
Cooling		active cooling
Protection class		IP66
Noise emission		<50 db
H x W x D		543 x 463 x 225 mm
Weight		30 kg
Certifications		
Safety		IEC 62109-1:2010 and -2:2011; EN 62311:2020; EN 61000-3-3:2013; EN 61000-3-11:2000; EN 61000-3-2:2014; EN 61000-3-12:2011; EN IEC 63000:2018
EMC		EN 61000-6-2:2005/AC:2005; EN 62920:2017 Class A; EN 61000-6-3:2007 + A1:2011/AC:2012; EN 55011:2016+A1:2017 group 1, Class B; EN 62920:2017 Class B
RED		EN 300 328 V2.2.2:2019; EN 301 489-1 V2.1.1/ V2.2.3; EN 301 489-17 V3.2.4
Enviroment Temperature		IEC 60068-2-1, 2-2, 2-14, 2-30, 2-75
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Grid connection rule		overview see homepage / download area

