PRELIMINARY

blueplanet 3.0 – 5.0 NX3

3-phase, multi-MPPT inverters for small residential solar PV plants



Get ready for the next generation.

Functional, robust design offers easy and flexible ways of installation

User-friendly apps for Wi-Fi setup and monitoring

Integrated DC-switch, Sunclix connectors

EUPD RESEARCH TOP BRAND PV INVERTERS EUROPE 2021

EN 500xxxx-01-220307

Technical Data

PRELIMINARY

(Data subject to change without prior notice)

DC input data	3.0 NX3	5.0 NX3
Max. recommended PV generator power	4 500 W	7 500 W
MPP range@rated power	150 – 1000 V	150 – 1000 V
Operating range	125 – 1100 V	125 – 1100 V
Rated DC voltage / start voltage	630 V / 180 V	630 V / 180 V
Max. no-load voltage	1100 V	1100 V
Max. input current	16 A	16 A
Max. short circuit current $I_{sc\ max}$	25 A	25 A
Number of MPP tracker	2	2
Connection per tracker	1	1
Max.input power per tracker	2 250 W	3 750 W
AC output data		
Rated active power	3 000 W	4 000 W
Max. apparent power	3 300 VA	4 400 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)	160 V – 300 V	160 V – 300 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)	50 Hz / 60 Hz (45 – 65 Hz)
Max. current	4.8 A	6.4 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	98.2 %	98.2 %
Europ. efficiency	97.8 %	97.8 %
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 / RS485	WiFi / 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)
Self-consumption (at night)	<1 W	<1 W
Climatic category (acc. to IEC 60721-3-4)	3 000 m	3 000 m
Max. installation elevation (above)	4K4H	4K4H
Cooling	convection	convection
Protection class	IP66	IP66
Noise emission	t.b.d.	t.b.d.
H x W x D	503 x 435 x 183 mm	503 x 435 x 183 mm
Weight	<15 kg	<15 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	
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	

The text and figures reflect the current technical state at the time of printing. Subject to technical changes. Errors and omissions excepted.
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