

blueplanet 3.0 + 5.0 NX3 M2

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

DC SPD Type II, AC SPD Type III*

DC reverse polarity protection

Integrated DC-switch, Sunclix
connectors



Technical Data

DC input data	3.0 NX3 M2	5.0 NX3 M2
Max. recommended PV generator power	4 500 W	7 500 W
MPP range@rated power	270 – 850 V	270 – 850 V
Operating range	150 – 1000 V	150 – 1000 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	2 x 16 A	2 x 16 A
Max. short circuit current $I_{sc\ max}$	2 x 25 A	2 x 25 A
Number of MPP tracker	2	2
Connection per tracker	1	1
Max. input power per tracker	6 200 W	6 200 W
AC output data		
Rated active power	3 000 W	5 000 W
Max. apparent power	3 000 VA	5 000 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)	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	8.0 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	97,3 %	97,5 %
Europ. efficiency	95,8 %	96,5 %
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 onnector
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	convection	convection
Protection class	IP65	IP65
Noise emission	<20 db (A)	<20 db (A)
H x W x D	435 x 503 x 183 mm	435 x 503 x 183 mm
Weight	<16 kg	<16 kg
Certifications		
Safety	IEC 62109-1:2010 and -2:2011; EN 62311:2008; EN 61000-3-3:2013; EN 61000-3-11:2000; EN 61000-3-2:2014; EN 61000-3-12:2011; EN IEC 63000:2018	
Grid connection rule	overview see homepage / download area	