

# blueplanet 8.0 – 20.0 NX3 M2

Multi-MPPT inverters for residential  
and small commercial solar PV plants



## Think ahead.

Wide operating range 150 - 1000 V,  
Low start-up voltage

Functional, robust design  
offers easy and flexible ways of  
installation

DC SPD Type II, AC SPD Type III\*

DC reverse polarity protection

2 MPP trackers for various  
system designs



## Technical Data

DC input data	8.0 NX3 M2	10.0 NX3 M2
Max. recommended PV generator power	12 000 W	15 000 W
MPP range@rated power	400 – 850 V	400 – 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	1 x 20 A / 1 x 16 A	1 x 20 A / 1 x 16 A
Max. short circuit current $I_{sc\ max}$	1 x 30 A / 1 x 25 A	1 x 30 A / 1 x 25 A
Number of MPP tracker	2	2
Connection per tracker	1	1
Max. input power per tracker	12 000 W	12 000 W
AC output data		
Rated active power	8 000 W	10 000W
Max. apparent power	8 000 VA	10 000VA
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-N)	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	12.8 A	16 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	97,7 %	97,7 %
Europ. efficiency	97,0 %	97,2 %
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 / 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)
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	<40 db (A)	<40 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 62311:2020; EN 61000-3-3:2013; EN 61000-3-11:2000; EN 61000-3-2:2014; EN 61000-3-12:2011; EN IEC 63000:2018	
Grid connection rule	overview see homepage / download area	

\*1 DC and AC overvoltage protection devices not replaceable

## Technical Data

DC input data	15.0 NX3 M2	20.0 NX3 M2
Max. recommended PV generator power	22 500 W	30 000 W
MPP range@rated power	400 – 850 V	400 – 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	1 x 32 A / 1 x 20 A	2 x 32 A
Max. short circuit current $I_{sc\ max}$	1 x 48 A / 1 x 30 A	2 x 48 A
Number of MPP tracker	2	2
Connection per tracker	2/1	2
Max. input power per tracker	15 000 W	15 000 W
AC output data		
Rated active power	15 000 W	20 000 W
Max. apparent power	15 000 VA	20 000 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-N)	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	24 A	31.9 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	97,8 %	97,8 %
Europ. efficiency	97,4 %	97,5 %
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 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	IP65	IP65
Noise emission	<40 db (A)	<45 db (A)
H x W x D	435 x 503 x 183 mm	435 x 503 x 183 mm
Weight	17 kg	18 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	
Grid connection rule	overview see homepage / download area	

