

PRELIMINARY

# blueplanet 50.0 + 60.0 NX3 M5

String inverters for commercial  
and industrial PV systems



## Next generation, new freedom.

Flexible multi-MPPT technology  
for Commercial and Industrial PV  
applications

High efficiency

Compatible with bifacial and high  
power modules

Superior plant yield

Lean commissioning and updates  
via remote services

Many add-ons



DC input data	50.0 NX3 M5	60.0 NX3 M5
Max. recommended PV generator power	75 000 W	90 000 W
MPP range	200 V – 1000 V	200 V – 1000 V
Rated DC voltage / start voltage	630 V / 250 V	630 V / 250 V
Max. no-load voltage	1100 V	1100 V
Max. input current	2 x 40 A	3 x 32 A
Max. short circuit current $I_{sc\ max}$	2 x 60 A	3 x 48 A
Number of MPP tracker	5	5
Connection per tracker	2	2
AC output data		
Rated output	50 000 W	60 000 VA
Max. power	50 000 VA	60 000 VA
Line voltage	220 V / 380 V (3 / N / PE)	220 V / 380 V (3 / N / PE)
	230 V / 400 V (3 / N / PE)	230 V / 400 V (3 / N / PE)
	240 V / 415 V (3 / N / PE)	240 V / 415 V (3 / N / PE)
Voltage range (Ph-Ph)	180 V – 305 V / 312 V – 528 V	180 V – 305 V / 312 V – 528 V
Rated frequency (range)	50 Hz / 60 Hz (45 – 65 Hz)	50 Hz / 60 Hz (45 – 65 Hz)
Max. current	83.6 A	95.3 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	98.6 %	98.6 %
Europ. efficiency	98.3 %	98.3 %
Standby consumption	<1 W	<1 W
Circuitry topology	transformerless	transformerless
Mechanical data		
Display	LED indication (solar, grid, status)	LED indication (solar, grid, status)
Interfaces	LAN, WiFi, 4G, RS485	LAN, WiFi, 4G, RS485
DC connection	DC plugs (Phoenix Contact Sunclix)	DC plugs (Phoenix Contact Sunclix)
AC connection	OT / DT connector	OT / DT connector
Ambient temperature	-25 °C – +60 °C <sup>1)</sup>	-25 °C – +60 °C <sup>1)</sup>
Humidity	0 – 100 % (non-condensing)	0 – 100 % (non-condensing)
Max. installation elevation (above MSL)	4 000 m	4 000 m
Climatic category (acc. to IEC 60721-3-4)	4K4H	4K4H
Cooling	active cooling	active cooling
Protection class	IP66	IP66
Noise emission	<50 db (A)	<50 db (A)
H x W x D	670 x 640 x 270 mm	670 x 640 x 270 mm
Weight	43 kg	43 kg
Certifications		
Safety	EN50549; IEC62109; IEC6172; IEC61683; IEC61000	
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. This current version replaces all older versions. Download the most current version at: [www.kaco-newenergy.com](http://www.kaco-newenergy.com)