



blueplanet

50.0 NX3/60.0 NX3

MULTI-MPPT STRING INVERTERS
COMMERCIAL AND INDUSTRIAL
PHOTOVOLTAIC SYSTEMS

Unmistakable. Powerful. Flexible.

50 kVA / 60 kVA for particularly complex roof tops (incl. retrofit)

5 MPPTs for flexible PV system design (2 strings per MPPT)

40 A / 32 A input current per MPPT

Compatible with bifacial and high-power modules

Shade management – improved yield under non-ideal conditions

Additional connections:
4 digital inputs, NA protection

High number of communication options (LAN/Wifi/RS485)

Zero feed-in

Plug & Play concept

Smart monitoring via App

SPD AC Type 2/DC Type 2

Technical Data.

DC input data	50.0 NX3 M5	60.0 NX3 M5
Max. recommended PV generator power	75 000 W	90 000 W
MPP range	500 – 850 V	500 – 850 V
Operating range	200 – 1000 V	200 – 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	40 / 32 / 32 / 40 / 32	40 / 32 / 32 / 40 / 32
Max. short circuit current $I_{sc\ max}$	60 / 48 / 48 / 60 / 48	60 / 48 / 48 / 60 / 48
Number of MPP trackers	5	5
Max. connections per tracker	2	2
AC output data		
Rated output	50 000 VA	60 000 VA
Max. power	50 000 VA	60 000 VA
Rated 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)
Rated current	3x75.8 A (@220V/380V)	3x91.0 A (@220V/380V)
	3x72.5 A (@230V/400V)	3x87.0 A (@230V/400V)
	3x69.5 A (@240V/415V)	3x83.4 A (@240V/415V)
Max. current	83.6 A	95.3 A
Reactive power / cos phi	0.80 ind. – 0.80 cap.	0.80 ind. – 0.80 cap.
Total harmonic distortion (THD)	≤ 3 %	≤ 3 %
Number of grid phases	3	3
General data		
Max. efficiency	98.1 %	98.0 %
Europ. efficiency	97.8 %	97.7 %
Standby consumption	1 W	1 W
Circuitry topology	transformerless	transformerless
Mechanical data		
Display	LEDs	LEDs
Control units	APP (supports mobile devices)	
Interfaces	WLAN, SunSpec Modus TCP-IP	
	Sunspec Modus RTU, KACO Legacy Protocol	
DC connection	DC-connector (Phoenix Contact Sunclix)	
AC connection	OT / DT	
AC/DC Surge Protection	type2/type2	type2/type2
Ambient temperature	-25 °C – +60 °C ¹⁾	-25 °C – +60 °C ¹⁾
Humidity	0 – 100 %	0 – 100 %
Max. installation elevation (above MSL)	3000 m	3000 m
Climatic category (acc. to IEC 60721-3-4)	4K4H	4K4H
Cooling	temperature controlled fan	temperature controlled fan
Protection class	IP66	IP66
Noise emission	≤ 55 db (A)	≤ 55 db (A)
H x W x D	765 mm x 670 mm x 298 mm	765 mm x 670 mm x 298 mm
Weight	<45 kg	<45 kg
Certifications		
Safety & EMC	EN 62109-1, EN 62109-2, EN IEC 61000-6-2, EN 62920 class A/B EN IEC 61000-6-3, EN 55011 group 1/class B, EN 61000-3-12, EN IEC 61000-3-11	
Grid connection rule	overview see homepage / download area	

¹⁾ Power derating at high ambient temperatures

