KACO new energy.

PRELIMINARY

blueplanet 8.0 – 20.0 NX3

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

Think ahead.

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

Functional, robust design offers easy and flexible ways of installation

Replaceable SPD Type II, 2 MPP trackers for various system designs

EUPD RESEARCH TOP BRAND PV INVERTERS EUROPE 2021

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Technical Data

PRELIMINARY

(Data subject to change without prior notice)

DC input data	**8.0 NX3**	**10.0 NX3**
Max. recommended PV generator power	12 000 W	15 000 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 / 180V
Max. no-load voltage	1100 V	1100 V
Max. input current	20 A	20 A
Max. short circuit current $I_{sc\ max}$	30 A	30 A
Number of MPP tracker	2	2
Connection per tracker	1	1
Max.input power per tracker	6 000 W	7 500 W
AC output data		
Rated active power	8 000 W	10 000W
Max. apparent power	8 800 VA	11 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-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	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	98.3 %	98.3 %
Europ. efficiency	98.0 %	98.0 %
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	17.3 kg	17.3 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	

Technical Data

PRELIMINARY

(Data subject to change without prior notice)

DC input data	**15.0 NX3**	**20.0 NX3**
Max. recommended PV generator power	22 500 W	30 000 W
MPP range@rated power	150 – 1000 V	150 – 1000 V
Operating range	125 – 1100V	125 – 1100 V
Rated DC voltage / start voltage	630 V / 180V	630 V / 180V
Max. no-load voltage	1100 V	1100 V
Max. input current	32 A / 20 A	32 A
Max. short circuit current $I_{sc\ max}$	48 A / 30 A	48 A
Number of MPP tracker	2	2
Connection per tracker	2/1	2
Max.input power per tracker	11 250 W	15 000 W
AC output data		
Rated active power	15 000 W	20 000 W
Max. apparent power	16 500 VA	22 000 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	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	98.3 %	98.3 %
Europ. efficiency	98.0 %	98.0 %
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	active cooling	active cooling
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	17.3 kg	18.6 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	

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