



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

