

blueplanet 87.0 + 92.0 TL3

String inverters for commercial and industrial PV systems.



The inverters for any case.

Cost-saving due to 380 / 400 V line voltage and integrated section switches

Optimised for PV modules with 1000 V and 1500 V

Highest efficiency and overload capacity through silicon carbide technology

Special properties for extreme environmental conditions

Lean commissioning and updates via remote services

Decentralised design or 'Virtual Central' concept possible



Technical Data

| DC input data | 87.0 TL3 | 92.0 TL3 |
|--|--|--|
| Max. recommended PV generator power | 130 500 W | 138 000 W |
| MPP range | 563 – 1 300 V | 591 – 1 300 V ¹⁾ |
| Operating range | 563 – 1 450 V | 591 – 1 450 V ¹⁾ |
| Rated DC voltage / start voltage | 600 V / 645 V | 620 V / 675 V ¹⁾ |
| Max. no-load voltage | 1 500 V | 1 500 V |
| Max. input current | 160 A | 160 A |
| Max. short circuit current I _{sc max} | 300 A | 300 A |
| Number of MPP tracker | 1 | 1 |
| Connection per tracker | 1 - 2 | 1 - 2 |
| AC output data | | |
| Rated output | 87 000 VA | 92 000 VA |
| Max. power | 87 000 VA | 92 000 VA |
| Line voltage | 380 V (3P+PE) | 400 V (3P+PE) |
| Voltage range (Ph-Ph) | 300 – 580 V | 300 – 580 V |
| Rated frequency (range) | 50 Hz / 60 Hz (45 – 65 Hz) | 50 Hz / 60 Hz (45 – 65 Hz) |
| Rated current | 3 x 132.3 A | 3 x 132,3 A |
| Max. current | 3 x 132.3 A | 3 x 132,3 A |
| Reactive power / cos phi | 0 – 100 % Snom / 0.30 ind. – 0.30 cap. | 0 – 100 % Snom / 0,30 ind. – 0,30 cap. |
| Max. total harmonic distortion (THD) | ≤ 3 % | ≤ 3 % |
| Number of grid phases | 3 | 3 |
| General data | | |
| Max. efficiency | 99.0 % | 98.8 % |
| Europ. efficiency | 98.6 % | 98.5 % |
| CEC efficiency | 98.6 % | 98.4 % |
| Standby consumption | 5 W | 5 W |
| Circuitry topology | transformerless | transformerless |
| Mechanical data | | |
| Display | LEDs | LEDs |
| Control units | webserver, supports mobile devices | webserver, supports mobile devices |
| Interfaces | Ethernet (Modbus TCP, Sunspec) RS485 (KACO-protocol) USB, optional: 4-DI | Ethernet (Modbus TCP, Sunspec) RS485 (KACO-protocol) USB, optional: 4-DI |
| Fault signalling relay | potential-free NOC max. 30 V / 1 A | potential-free NOC max. 30 V / 1 A |
| DC connection | cable lug, max. 240 mm ² Cu or Al | cable lug, max. 240 mm ² Cu or Al |
| AC connection | cable lug, max. 240 mm ² Cu or Al | cable lug, max. 240 mm ² Cu or Al |
| Ambient temperature | -25 °C – +60 °C ²⁾ | -25 °C – +60 °C ²⁾ |
| Humidity | 0 – 100 % | 0 – 100 % |
| Max. installation elevation (above MSL) | 3 000 m | 3 000 m |
| Min. distance from coast | 500 m | 500 m |
| Cooling | temperature controlled fan | temperature controlled fan |
| Protection class | IP66 / NEMA 4X | IP66 / NEMA 4X |
| Noise emission | 59.2 db (A) | 59.2 db (A) |
| H x W x D | 719 x 699 x 460 mm | 719 x 699 x 460 mm |
| Weight | | 78.2 kg |
| Certifications | IEC 62109-1/-2, EN 61000-6-1/-2/-4, EN 61000-3-11/-12, EN 55011 group 1, class A EN 62920 Emission class A/Immunity class A | |
| Safety | overview see homepage / download area | |
| Grid connection rule | overview see homepage / download area | |

¹⁾ Line voltage 240 V; MPP-range 613 - 1 300 V | start voltage 700 V
²⁾ Power derating at high ambient temperatures

| Versions | S | XL |
|------------------------|------------|------------|
| Number of DC inputs | 1 - 2 | 1 - 2 |
| DC switch | - | ✓ |
| DC SPD | Type 1 + 2 | Type 1 + 2 |
| AC SPD | ○ | ○ |
| RS485 interface SPD | ○ | ○ |
| Ethernet interface SPD | ○ | ○ |
| PID Set | ○ | ○ |

standard = ✓ upgradeable = ○