

blueplanet 60.0 TL3

Transformerless, three-phase string inverter.



The inverter you can count on.

Compact wall-mounted unit for decentralised megawatt projects

Tailored for economical use in solar parks

Farsighted technical features for future requirements

Installation-friendly connection area, user-friendly operation

Integrated section switches for cost-effective grid and plant protection with Powador-protect



Technical Data

| DC input data | | 60.0 TL3 |
|---|--|---|
| Max. recommended PV generator power | | 90 000 W |
| MPP range | | 580 ¹⁾ – 900 V |
| Operating range | | 580 ¹⁾ – 1 050 V |
| Rated DC voltage / start voltage | | 600 V / 670 V |
| Max. no-load voltage | | 1 100 V |
| Max. input current | | 107 A |
| Max. short circuit current $I_{sc,max}$ | | 190 A |
| Number of MPP tracker | | 1 |
| Connection per tracker | | B / M: 1; XL: 12 |
| AC output data | | |
| Rated output | | 60 000 VA |
| Max. power | | 60 000 VA |
| Line voltage | | 240 V / 415 V (3 / N / PE; 3 / PEN) 230 V / 400 V (3 / N / PE; 3 / PEN) 220 V / 380 V (3 / N / PE; 3 / PEN) |
| Voltage range (Ph-Ph) | | 305 – 480 V |
| Rated frequency (range) | | 50 Hz / 60 Hz (42 – 68 Hz) |
| Rated current | | 3 x 86.7 A @ 400 V |
| Max. current | | 3 x 90.0 A continuously |
| Reactive power / cos phi | | 0 - 100 % Snom / 0.30 ind. – 0.30 cap. |
| Max. total harmonic distortion (THD) | | 1.6 % |
| Number of grid phases | | 3 |
| General data | | |
| Max. efficiency | | 98.5 % |
| Europ. efficiency | | 98.1 % |
| CEC efficiency | | 98.0 % |
| Standby consumption | | 2.5 W |
| Circuitry topology | | transformerless |
| Mechanical data | | |
| Display | | graphical display + LEDs |
| Control units | | 4-way navigation + 2 buttons |
| Interfaces | | Ethernet, USB, RS485, optional: 4-DI |
| Fault signalling relay | | potential-free NOC max. 30 V / 1 A |
| DC connection | | B / M: max.120 mm ² cable plug, Cu / Al XL: DC plugs (SUNCLIX) |
| AC connection | | screw terminals, max. 95 mm ² , Cu / Al |
| Ambient temperature | | -20 °C – +60 °C ²⁾ |
| Humidity | | 0 – 100 % |
| Max. installation elevation (above MSL) | | 3 000 m |
| Cooling | | temperature controlled fan |
| Protection class | | IP65 |
| Noise emission | | < 61 db (A) |
| H x W x D | | 760 x 500 x 425 mm |
| Weight | | 71 kg (B / M), 73 kg (XL) |
| Certifications | | |
| Safety | | IEC 62109-1/-2 EN 61000-6-1/-2/-4 EN 61000-3-11/-12 |
| Grid connection rule | | overview see homepage / download area |

¹⁾ 560 V @ 220 V / 380 V; 610 V @ 240 V / 415 V
²⁾ Power derating at high ambient temperatures

| Versions | B | M | XL | XLF |
|------------------------------|---|---|------------|------------|
| Number of DC inputs | 1 | 1 | 12 | 12 |
| DC switch | ✓ | ✓ | ✓ | ✓ |
| Fuse holder PV+ without fuse | - | - | ✓ | ✓ |
| String protection PV - | - | - | ○ | ○ |
| DC surge protection | - | ○ | Type 1 + 2 | Type 1 + 2 |
| AC surge protection | - | ○ | ○ | ○ |

standard = ✓ upgradeable = ○