



Data sheet

blueplanet

5.0 TL3

6.5 TL3

7.5 TL3

9.0 TL3

Your quickest way to the highest yields.

The transformerless three-phase inverters blueplanet 5.0 TL3 to 9.0 TL3.

All of the advantages of the larger 3-phase inverters can now be found in one power class which is just perfect for private roof systems. The blueplanet 5.0 TL3 to the 9.0 TL3 come, without exception, with 2 MPP trackers which can get to grips with all imaginable design configurations of a modular PV generator. As such, each MPP tracker can process the whole AC output. If you also consider the extremely wide input voltage range from 200 V to 800 V, multiple string configurations become possible. So, with these characteristics, the blueplanet TL3 present themselves as the most flexible three-phase inverters in their power class on the market.

The DC and AC periphery of the blueplanet TL3 ensures the quickest cabling thanks to plug-in connectors and the menu selection is performed conveniently using the graphic display. So that the appliances can stand up to the harshest conditions out in the open, their compact housing is built to IP65 protection class. Nevertheless, weighing just 30 kg they can still be carried easily.

Should the RS485, Ethernet and USB port interfaces still leave something to be desired, optional connections for SO-connected appliances as well as 4 digital inputs and outputs are available. The data logger and the webserver are already in-

tegrated as standard! As a result, these inverters offer complete monitoring and strong communication in any environment.

And, if you want to use your self-generated solar power in your own home, the blueplanet 5.0 TL3 to 9.0 TL3 also come with our Privatt function for managing self-use.

Available in Q1/2015.

Technical data

blueplanet 5.0 TL3 | 6.5 TL3 | 7.5 TL3 | 9.0 TL3

| Electrical data | 5.0 TL3 | 6.5 TL3 |
|-----------------------------------|--|--|
| Input variables | | |
| MPP range@Pnom | 240 V ... 800 V | 310 V ... 800 V |
| Min DC voltage / starting voltage | 200 V / 250 V | 200 V / 250 V |
| No-load voltage | 1 000 V | 1 000 V |
| Max. input current | 2 x 11.0 A | 2 x 11.0 A |
| Number of MPP trackers | 2 | 2 |
| Max. power / tracker | 5.2 kW | 6.7 kW |
| Number of strings | 2 | 2 |
| Output variables | | |
| Rated output | 5 000 VA | 6 500 VA |
| Supply voltage | acc. to local requirements | acc. to local requirements |
| Rated current | 3 x 7.25 A | 3 x 9.5 A |
| Rated frequency | 50 Hz / 60 Hz | 50 Hz / 60 Hz |
| cos phi | 0.80 inductive ... 0.80 capacitive | 0.80 inductive ... 0.80 capacitive |
| Number of grid phases | 3 | 3 |
| General electrical data | | |
| Max. efficiency | > 97.5 % | > 97.5 % |
| Europ. efficiency | > 97.0 % | > 97.0 % |
| Night consumption | 1.5 W | 1.5 W |
| Switching plan | transformerless | transformerless |
| Grid monitoring | acc. to local requirements ¹⁾ | acc. to local requirements ¹⁾ |
| Mechanical data | | |
| Display | graphical display + LEDs | graphical display + LEDs |
| Control units | 4-way navigation + 2 buttons | 4-way navigation + 2 buttons |
| Interfaces | standard: 2 x Ethernet, USB, RS485 optional: S0, 4-DI, 4-DO | standard: 2 x Ethernet, USB, RS485 optional: S0, 4-DI, 4-DO |
| Fault signalling relay | potential-free NOC max. 230 V / 1 A | potential-free NOC max. 230 V / 1 A |
| Connections | DC: solar connector, AC: plug | DC: solar connector, AC: plug |
| Ambient temperature | -25 °C ... +60 °C ²⁾ | -25 °C ... +60 °C ²⁾ |
| Cooling | temperature-dependent fan | temperature-dependent fan |
| Protection class | IP65 | IP65 |
| Noise emission | < 45 dB (A) (noiseless when operated without fan) | < 45 dB (A) (noiseless when operated without fan) |
| DC switch | integrated | integrated |
| Casing | aluminium casting / innovative ASA / PC | aluminium casting / innovative ASA / PC |
| H x W x D | 522 x 363 x 246 mm | 522 x 363 x 246 mm |
| Weight | 30 kg | 30 kg |

¹⁾ Standard 3-phase monitoring ²⁾ Power derating at high ambient temperatures.
Conforms to the country-specific standards and regulations according to the country version that has been set.

| Electrical data | 7.5 TL3 | 9.0 TL3 |
|-----------------------------------|--|--|
| Input variables | | |
| MPP range@Pnom | 350 V ... 800 V | 420 V ... 800 V |
| Min DC voltage / starting voltage | 200 V / 250 V | 200 V / 250 V |
| No-load voltage | 1 000 V | 1 000 V |
| Max. input current | 2 x 11.0 A | 2 x 11.0 A |
| Number of MPP trackers | 2 | 2 |
| Max. power / tracker | 7.7 kW | 8.8 kW |
| Number of strings | 2 | 2 |
| Output variables | | |
| Rated output | 7 500 VA | 9 000 VA |
| Supply voltage | acc. to local requirements | acc. to local requirements |
| Rated current | 3 x 10.9 A | 3 x 13.0 A |
| Rated frequency | 50 Hz / 60 Hz | 50 Hz / 60 Hz |
| cos phi | 0.80 inductive ... 0.80 capacitive | 0.80 inductive ... 0.80 capacitive |
| Number of grid phases | 3 | 3 |
| General electrical data | | |
| Max. efficiency | > 97.5 % | > 97.5 % |
| Europ. efficiency | > 97.0 % | > 97.0 % |
| Night consumption | 1.5 W | 1.5 W |
| Switching plan | transformerless | transformerless |
| Grid monitoring | acc. to local requirements ¹⁾ | acc. to local requirements ¹⁾ |
| Mechanical data | | |
| Display | graphical display + LEDs | graphical display + LEDs |
| Control units | 4-way navigation + 2 buttons | 4-way navigation + 2 buttons |
| Interfaces | standard: 2 x Ethernet, USB, RS485 optional: S0, 4-DI, 4-DO | standard: 2 x Ethernet, USB, RS485 optional: S0, 4-DI, 4-DO |
| Fault signalling relay | potential-free NOC max. 230 V / 1 A | potential-free NOC max. 230 V / 1 A |
| Connections | DC: solar connector, AC: plug | DC: solar connector, AC: plug |
| Ambient temperature | -25 °C ... +60 °C ²⁾ | -25 °C ... +60 °C ²⁾ |
| Cooling | temperature-dependent fan | temperature-dependent fan |
| Protection class | IP65 | IP65 |
| Noise emission | < 45 dB (A) (noiseless when operated without fan) | < 45 dB (A) (noiseless when operated without fan) |
| DC switch | integrated | integrated |
| Casing | aluminium casting / innovative ASA / PC | aluminium casting / innovative ASA / PC |
| H x W x D | 522 x 363 x 246 mm | 522 x 363 x 246 mm |
| Weight | 30 kg | 30 kg |

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Up to 97.9% efficiency

Two MPP trackers, symmetrical
and asymmetrical loading possible

Multilingual menu

Graphical display

Data logger with web server

USB connection for updates

Priwatt function for the self-use
of solar power

Your retailer
