

# blueplanet 92.0 TL3

Transformerless, three-phase string inverter.



## The trendsetter among inverters.

Suitable for use with 1000 Volt  
and 1500 Volt modules

Extensive grid management  
functions

Special properties for extreme  
climatic conditions

Farsighted technical features for  
future requirements

Lean commissioning and  
maintenance via remote services

## Technical Data

<b>DC input data</b>		<b>92.0 TL3</b>
Max. recommended PV generator power		138 000 W
MPP range		591 – 1 300 V <sup>1)</sup>
Operating range		591 – 1 450 V <sup>1)</sup>
Rated DC voltage / start voltage		620 V / 675 V <sup>1)</sup>
Max. no-load voltage		1 500 V
Max. input current		160 A
Max. short circuit current $I_{sc\ max}$		300 A
Number of MPP tracker		1
Connection per tracker		1 - 2
<b>AC output data</b>		
Rated output		92 000 VA
Max. power		92 000 VA
Line voltage		400 V (3P+PE)
Voltage range (Ph-Ph)		300 – 580 V
Rated frequency (range)		50 Hz / 60 Hz (45 – 65 Hz)
Rated current		3 x 132,3 A
Max. current		3 x 132,3 A
Reactive power / cos phi		0 – 100 % Snom / 0,30 ind. – 0,30 cap.
Max. total harmonic distortion (THD)		≤ 3 %
Number of grid phases		3
<b>General data</b>		
Max. efficiency		98.8 %
Europ. efficiency		98.5 %
CEC efficiency		98.4 %
Standby consumption		5 W
Circuitry topology		transformerless
<b>Mechanical data</b>		
Display		LEDs
Control units		webserver, supports mobile devices
Interfaces		Ethernet (Modbus TCP, Sunspec) RS485 (KACO-protocol) USB, optional: 4-DI, WIFI
Fault signalling relay		potential-free NOC max. 30 V / 1 A
DC connection		cable lug, max. 240 mm <sup>2</sup> (0.372 in <sup>2</sup> ) Cu or Al
AC connection		cable lug, max. 240 mm <sup>2</sup> (0.372 in <sup>2</sup> ) Cu or Al
Ambient temperature		-25 °C – +60 °C <sup>2)</sup>
Humidity		0 – 100 %
Max. installation elevation (above MSL)		3 000 m
Min. distance from coast		500 m
Cooling		temperature controlled fan
Protection class		IP66 / NEMA 4X
Noise emission		59.2 db (A)
H x W x D		719 x 699 x 460 mm
Weight		78.2 kg
<b>Certifications</b>		
Safety		IEC 62109-1/-2, EN 61000-6-1/-2/-3, EN 61000-3-11/-12
Grid connection rule		overview see homepage / download area

<sup>1)</sup> Line voltage 240 V; MPP-range 613 - 1 300 V | start voltage 700 V  
<sup>2)</sup> 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 = ○