

# blueplanet 110 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

DC input data		110 TL3
Max. recommended PV generator power		165 000 W
MPP range		705 – 1 300 V
Operating range		705 – 1 450 V
Rated DC voltage / start voltage		730 V / 805 V
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
AC output data		
Rated output		110 000 VA
Max. power		110 000 VA
Line voltage		480 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
General data		
Max. efficiency		99.1 %
Europ. efficiency		98.8 %
CEC efficiency		98.8 %
Standby consumption		5 W
Circuitry topology		transformerless
Mechanical data		
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>1)</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
Certifications		
Safety		UL62109-1, UL1741, CSA-C22.2 No. 62109-1, CSA-C22.2 No. 62109-2, CSA-C22.2 No. 107.1 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> 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 = ○