

# blueplanet 150 TL3

Transformerless, three-phase string inverter.



## The trendsetter among inverters.

Optimized for solar power plants  
with 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>150 TL3</b>	<b>PRELIMINARY</b>
Max. recommended PV generator power		225 000 W	
MPP range		960 – 1 300 V	
Operating range		960 – 1 450 V	
Rated DC voltage / start voltage		1 000 V / 1 100 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		2	
<b>AC output data</b>			
Rated output		150 000 VA	
Max. power		150 000 VA	
Line voltage		660 V (3P+PE)	
Voltage range (Ph-Ph)		480 – 760 V	
Rated frequency (range)		50 Hz / 60 Hz (45 – 65 Hz)	
Rated current		3 x 131,2 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		> 99,0 %	
Europ. efficiency		> 98,5 %	
CEC efficiency		> 98,5 %	
Standby consumption		< 10 W	
Circuitry topology		transformerless	
<b>Mechanical data</b>			
Display		LEDs	
Control units		webserver, supports mobile devices	
Interfaces		Ethernet (Modbus TCP, Sunspec) RS485 (Modbus RTU, Sunspec, 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		2 000 m / 500 m (OD+ version)	
Cooling		temperature controlled fan	
Protection class		IP66 / NEMA 4X	
Noise emission		< 69 db (A)	
H x W x D		719 x 699 x 450 mm	
Weight		< 80 kg	
<b>Certifications</b>			
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

<b>Versions</b>	<b>S</b>	<b>XL</b>
Number of DC inputs	2	2
DC switch	-	✓
DC surge protection	○	Type 1 + 2
AC surge protection	○	○
RS485 interface surge protection	○	○
Ethernet interface surge protection	○	○
OD+	★	★

standard = ✓ upgradeable = ○ optional = ★

Text und Abbildungen entsprechen dem technischen Stand bei Drucklegung. Technische Änderungen vorbehalten. Keine Haftung für Druckfehler. Mit der aktuellen Version werden alle älteren Versionen ungültig. Die jeweils aktuelle Version finden Sie unter [www.kaco-newenergy.com](http://www.kaco-newenergy.com)