

blueplanet 125 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

DC input data		125 TL3	PRELIMINARY
Max. recommended PV generator power		187 500 W	
MPP range		875 – 1 300 V	
Operating range		875 – 1 450 V	
Rated DC voltage / start voltage		900 V / 1 000 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	
AC output data			
Rated output		125 000 VA	
Max. power		137 500 VA	
Line voltage		600 V (3P+PE)	
Voltage range (Ph-Ph)		480 – 760 V	
Rated frequency (range)		50 Hz / 60 Hz (45 – 65 Hz)	
Rated current		3 x 120.3 A	
Max. current		3 x 132.3 A	
Reactive power / cos phi		0 – 100 % Som / 0.3 ind. – 0.30 cap.	
Max. total harmonic distortion (THD)		≤ 3 %	
Number of grid phases		3	
General data			
Max. efficiency		99,1 %	
Europ. efficiency		98,9 %	
CEC efficiency		98,9 %	
Standby consumption		< 10 W	
Circuitry topology		transformerless	
Mechanical data			
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 ² (0.372 in ²) Cu or Al	
AC connection		cable lug, max. 240 mm ² (0.372 in ²) Cu or Al	
Ambient temperature		-25 °C – +60 °C ¹⁾	
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	
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	

¹⁾ Power derating at high ambient temperatures

Versions	S	XL
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 = ★

The text and figures reflect the current technical state at the time of printing. Subject to technical changes. Errors and omissions excepted. This current version replaces all older versions. Download the most current version at: www.kaco-newenergy.com