



Data sheet
blueplanet
125 TL3

Simple. Smart. Strong.

The three-phase string inverter blueplanet 125 TL3.

The blueplanet 125 TL3 is a new trendsetter for commercial- and industrial-scale PV systems that rely on 1500 volt modules.

Equipped with a power output of 125 kilowatts, while weighing less than 70 kilograms, this string inverter offers a high-power density, allowing oversizing up to nearly 1.5x its power output. An industry-leading 99% efficiency met with a wide MPPT range of 875 to 1300 volts showcases an unmatched level of superior performance.

The blueplanet 125 TL3 has a robust aluminium outdoor housing for wall-

mounting. With an impressive temperature range of -25 to +60 °C, the unit is well-equipped to stand up to the elements.

Utilizing aluminium cables with a cross-section of up to 240 millimetres offers another avenue for saving on installation costs. Customized string collectors allows the user flexibility in configuration to any method of customized connection technology.

Commissioning the inverter is wireless and easy, with a mobile app for iOS and Android. Supported by the integrated data logger with web server, system monitor-

ing as well as updating and servicing an inverter network from a remote location can be achieved: For this purpose, each device has two Ethernet interfaces that allow you to set up a daisy chain.

The blueplanet 125 TL3 is also available as an all-in-one system solution, combining the advantages of centralised and decentralised system configurations: Feel free to send any questions regarding CPSS (Central Power String Solution) to pv-projects@kaco-newenergy.de.



blueplanet 125 TL3

1500 volts input voltage

99% degree of efficiency

Up to 50% inverter oversizing possible

Low weight of 70 kg to facilitate wall mounting

IP65 aluminium housing for outdoor use

Mobile app for wireless start-up

2 Ethernet interfaces for remote maintenance

High temperature power derating from +55°C*

Electrical data	125 TL3	Preliminary
DC Input		
Max. recommended PV generator power	187.5 kW	
MPP range	875 V ... 1300 V	
Operating range	875 V ... 1450 V	
Nominal voltage / starting voltage	900 V / 975 V	
Max. input voltage	1500 V	
Max. input current	150 A	
Max. short circuit current [$I_{SC,max}$]	300 A	
Number of MPP trackers	1	
AC Output		
Nominal output power	125 kVA	
Nominal line voltage	600 V (3P + PE)	
Nominal current	3 x 120.3 A	
Max. current	3 x 127.5 A	
Nominal grid frequency	50 Hz / 60 Hz	
cos phi	0 - 1 inductive / capacitive	
Number of grid phases	3	
General electrical data		
Max. efficiency	~ 99.0 %	
European efficiency	~ 98.5 %	
Standby consumption	< 10 W	
Topology	transformerless	
Grid monitoring	acc. to local requirements	
Mechanical data		
Display	LEDs	
Device control	web server, Mobile App	
Interfaces	Ethernet, USB, RS485, optional: 4-DI/DO, WiFi, ZigBee	
Fault signalling relay	potential-free NOC max. 30 V / 1 A	
DC-Connection	cable lug, max. 240 mm ² Cu or Al	
AC-connection	cable lug, max. 240 mm ² Cu or Al	
Ambient temperature	-25°C ... +60°C	
Cooling	forced convection	
Protection class	IP65	
Noise emission	< 69 dB (A)	
DC switch	integrated in DC connection box	
H x W x D	700 x 700 x 450 mm	
Weight	< 70 kg	

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