KACO new energy.

Data sheet

blueplanet
15.0 TL3 INT
20.0 TL3 INT

NEW



Versatile on the roof, powerful in the park.

The transformerless, three-phase inverter blueplanet 15.0 TL3 INT and 20.0 TL3 INT.

The blueplanet 15.0 TL3 INT and 20.0 TL3 INT offer you plenty of scope for your photovoltaic projects in the medium power range – from small, commercial solar roofs to large-scale, open space solar parks.

Both inverters operate using two separate MPP trackers that can handle both symmetrical and asymmetrical loads. You will be able to deal with east/west facing roofs (symmetrical load), factory roofs which are shaded or inconsistently designed and open spaces (asymmetrical load). Two strings can be connected per MPP tracker, but a parallel tracker connection is also possible.

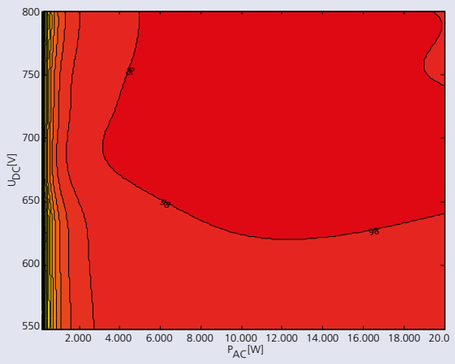
The wide input voltage range underscores the high performance of the units: The inverters start at 250 V, and, when in operation, continue to feed in at 200 V. They work right up to 950 V. First, these features give you a high degree of flexibility in system planning, and later, their long working hours will result in extremely high profitability.

The inverters comply with the BDEW medium voltage directive and a broad range of international grid regulations. Moreover, the combination of inverter and Powador-protect allows you to meet the requirements of grid and system protection as well as power management simply and inexpensively.

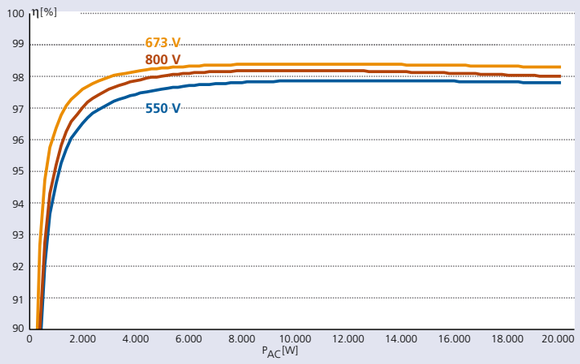
Pre-installed sockets into which the surge protection device of type SPD 1+2 can be fitted emphasise the safety aspect.

Graphical display of efficiency

3D efficiency diagram for blueplanet 20.0 TL3



Efficiency characteristic curve for blueplanet 20.0 TL3



Technical data

blueplanet 15.0 TL3 INT | 20.0 TL3 INT

Electrical data	15.0 TL3 INT NEW	20.0 TL3 INT
Input variables		
Maximum PV generator power	18000 W	24000 W
MPP range@Pnom	420 V ... 800 V	515 V ... 800 V
Operating range	200 V - 950 V	200 V - 950 V
Min. DC voltage / starting voltage	200 V / 250 V	200 V / 250 V
No-load voltage	1000 V	1000 V
Max. input current	2 x 18,6 A	2 x 20 A
Number of MPP trackers	2	2
Max. power/tracker	14,9 kW	15.0 kW
Number of strings	2 x 2	2 x 2
Output variables		
Rated output (@ 230 V)	15000 VA@230 V	20000 VA@230 V
Line voltage	400 V / 230 V (3 / N / PE)	400 V / 230 V (3 / N / PE)
Rated current	3 x 21,8 A	3 x 29 A
Rated frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
cos phi	1 inductive ... 0.3 capacitive	1 inductive ... 0.3 capacitive
Number of grid phases	3	3
General electrical data		
Max. efficiency	98,0 %	98.4 %
Europ. efficiency	97,7 %	98.1 %
Night consumption	1,5 W	1.5 W
Switching plan	trafolos	transformerless
Grid monitoring	länderspezifisch	acc. to local requirements
Mechanical data		
Display	graphical display + LEDs	graphical display + LEDs
Control units	4-way navigation + 2 buttons	4-way navigation + 2 buttons
Interfaces	standard: 2 x Ethernet, USB, RS485, Error relay optional: 4-DI	standard: 2 x Ethernet, USB, RS485, Error relay optional: 4-DI
Fault signalling relay	potential-free NOC max. 30 V / 1 A	potential-free NOC max. 30 V / 1 A
Connections	DC: solar connector, AC: cable connection M40 and terminal (max. cross-section: 16 mm² flexible, 10 mm² rigid)	DC: solar connector, AC: cable connection M40 and terminal (max. cross-section: 16 mm² flexible, 10 mm² rigid)
Ambient temperature	-25°C ... +60°C [1]	-25°C ... +60°C [1]
Cooling	forced convection	forced convection
Protection class	IP65	IP65
Noise emission	< 53 dB (A)	< 53 dB (A)
DC switch	integrated	integrated
Casing	aluminium casting	aluminium casting
H x W x D	690 x 420 x 200 mm	690 x 420 x 200 mm
Weight	46.6 kg	46.6 kg

[1] Power derating at high ambient temperatures.



blueplanet
15.0 TL3 INT
20.0 TL3 INT

- Up to 98.4 % efficiency
- 2 MPP trackers, symmetrical and asymmetrical loading possible
- Wide input voltage range 200 V – 950 V
- Protection class IP65 for outdoor use
- Graphical display, multilingual menu, pre-configured country settings
- Data logger with web server
- Prepared for surge protection

www.kaco-newenergy.com

EN 5001046-5-170321

Your retailer

The text and figures reflect the current technical state at the time of printing. Subject to technical changes. Errors and omissions excepted.
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