

KACO new energy.

Data sheet blueplanet 3.0 TL1 | 3.5 TL1 3.7 TL1 | 4.0 TL1 4.6 TL1

Small system? Big convenience. Highest yields!

The transformerless string inverters blueplanet 3.0 to 4.6 TL1.

KACO new energy has just rolled out its new "blueplanet" inverter series with a line-up of 1-phase, transformerless units. Newly developed, and, constructed from scratch, the blueplanet TL1 fulfil each and every requirement expected of modern solar PV inverters for use in residential PV systems: they are light and can be installed quickly; all essential technical features are included in the price; reliable operation and yields are guaranteed.

The finely-differentiated output of the blueplanet TL1 ranges from 3.0 to 4.6 kW (AC), so that even operators of the smallest PV systems will find the right inverter. The gradation of the output power therefore takes into consideration all current output limits stipulated in European network access provisions.

A wide voltage range starts at as little as 125 V and goes up to 550 V which allows for a multitude of string designs.

Having 2 MPP trackers, which can each process the whole AC power, system layout is now a breeze (blueplanet 3.0 TL1 also available with 1 MPPT). Angled roofs or sub-arrays with different orientations? That is no problem for the flexible blueplanet TL1 inverters.

And with their low weight, they are almost fun to mount. Using plug-in connectors on the DC and on the AC side, they are just as quickly connected as they are mounted. The inverters incorporate a small, maintenance-free, interior cooler (the blueplanet 3.0 TL1 is fanless!) which achieves uniform cooling without taking in ambient air. That means that the blueplanet TL1 is left completely free to achieve maximum output.

The standard incorporation of RS485, Ethernet and USB ensures elegant communication and convenient monitoring – even more interfaces are optionally available. In order to assure perfect linkup, the inverters have the same integrated data logger and web server as their 3-phase siblings. For commissioning and checking on the current operating data, they also feature the same easy-to-use, clearly laid out, graphical display.

And, if you want to use your self-generated solar power in your own home, the blueplanet TL1 also come with our Priwatt function for managing self-use.

Anything less would be a thing of the past!

Available in Q4/2014.

Technical data

blueplanet 3.0 TL1 | 3.5 TL1 | 3.7 TL1 | 4.0 TL1 | 4.6 TL1

Input variables 200 V 510 V 140 V 510 V Min DC voltage / starting voltage 125 V / 150 V 125 V / 150 V No-load voltage 600 V * 600 V * Max. input current 1 x 11,0 A 2 x 11,0 A Number of MPP trackers 1 2 Max. power/tracker 3.1 kW 3.1 kW Number of strings 2 2 Output variables 3000 VA 3000 VA Supply voltage 230 V (1/N/PE) 230 V (1/N/PE) Rated output 3.0 A 3.0 A Supply voltage 230 V (1/N/PE) 230 V (1/N/PE) Rated output 13.0 A 3.0 A Rated output 3.0 A 3.0 A Rated output 13.0 A 3.0 A Rated output 13.0 A 3.0 A Rated output 13.0 A 3.0 A Rated output 1-0,3 (ind/cap) 10-12 (ind/cap) Rated output 1 1-0,3 (ind/cap) 10-12 (ind/cap) Number of grid phases 7 2 9	Electrical data	3.0 TL1 M1	3.0 TL1	
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Fault signalling relayoptional: S0, 4-DI, 4-DOoptional: S0, 4-DI, 4-DOFault signalling relaypotential-free NOC max. 230 V/1 Apotential-free NOC max. 230 V/1 AConnectionsDC: solar connector AC: connection plugDC: solar connector AC: connection plugAmbient temperature-25 °C +60 °C **-25 °C +60 °C **Coolingnatural convectionnatural convectionProtection classIP54IP54Noise emission< 35 dB (A)	Control units	4-way navigation + 2 buttons	4-way navigation + 2 buttons	
Connections DC: solar connector AC: connection plug Ambient temperature -25 °C +60 °C ** Cooling natural convection Protection class IP54 Noise emission < 35 dB (A) DC switch integrated innovative ASA / PC casting H x W x D DC: solar connector AC: connector AC: connection plug PC: solar connector AC: connector AC: connection plug Integrated integrated integrated innovative ASA / PC casting innovative ASA / PC casting 560 x 367 x 225 mm	Interfaces			
AC: connection plug AC: conne	Fault signalling relay	potential-free NOC max. 230 V/1 A	potential-free NOC max. 230 V/1 A	
Coolingnatural convectionnatural convectionProtection classIP54IP54Noise emission< 35 dB (A)	Connections			
Protection class IP54 IP54 Noise emission < 35 dB (A) < 35 dB (A) DC switch integrated integrated Casing innovative ASA / PC casting innovative ASA / PC casting H x W x D 560 x 367 x 225 mm 560 x 367 x 225 mm	Ambient temperature	-25 °C +60 °C **	-25 °C +60 °C **	
Noise emission< 35 dB (A)< 35 dB (A)DC switchintegratedintegratedCasinginnovative ASA / PC castinginnovative ASA / PC castingH x W x D560 x 367 x 225 mm560 x 367 x 225 mm	Cooling	natural convection	natural convection	
DC switch integrated integrated Casing innovative ASA / PC casting innovative ASA / PC casting H x W x D 560 x 367 x 225 mm 560 x 367 x 225 mm	Protection class	IP54	IP54	
Casing innovative ASA / PC casting innovative ASA / PC casting H x W x D 560 x 367 x 225 mm 560 x 367 x 225 mm	Noise emission	< 35 dB (A)	< 35 dB (A)	
H x W x D 560 x 367 x 225 mm 560 x 367 x 225 mm	DC switch	integrated	integrated	
	Casing	innovative ASA / PC casting	innovative ASA / PC casting	
Weight 15 kg 16.5 kg	HxWxD	560 x 367 x 225 mm	560 x 367 x 225 mm	
<u> </u>	Weight	15 kg	16.5 kg	

^{*} Feed in starts at less than 550 V. ** Power derating at high ambient temperatures.

3.5 TL1	3.7 TL1	4.0 TL1	4.6 TL1
165 V 510 V	170 V 510 V	185 V 510 V	215 V 510 V
125 V/150 V	125 V / 150 V	125 V / 150 V	125 V / 150 V
600 V *	600 V *	600 V *	600 V *
2 x11.0 A	2x11.0 A	2x11.0 A	2x11.0 A
2	2	2	2
3.6 kW	3.8 kW	4.1 kW	4.7 kW
2	2	2	2
3450 VA	3 680 VA	4000 VA	4600 VA
230 V (1/N/PE)	230 V (1/N/PE)	230 V (1/N/PE)	230 V (1/N/PE)
15.0 A	16.0 A	17.5 A	20.0 A
50 Hz / 60 Hz			
1–0,3 (ind/cap)	1–0,3 (ind/cap)	1–0,3 (ind/cap)	1–0,3 (ind/cap)
1	1	1	1
97.2 %	97.2 %	97.2 %	97.2 %
96.4 %	96.5 %	96.6 %	96.6 %
3 W	3 W	3 W	3 W
transformerless	transformerless	transformerless	transformerless
acc. to local requirements			
graphical display + LEDs			
4-way navigation + 2 buttons			
standard: 2xEthernet, USB, RS485 optional: S0, 4-DI, 4-DO	standard: 2xEthernet, USB, RS485 optional: S0, 4-DI, 4-DO	standard: 2xEthernet, USB, RS485 optional: S0, 4-DI, 4-DO	standard: 2 xEthernet, USB, RS485 optional: S0, 4-DI, 4-DO
potential-free NOC max. 230 V/1 A			
DC: solar connector AC: connection plug			
-25 °C +60 °C **			
natural convection	maintenance-free indoor fan	maintenance-free indoor fan	maintenance-free indoor fan
IP54	IP54	IP54	IP54
< 35 dB (A)			
integrated	integrated	integrated	integrated
innovative ASA / PC casting			
560 x 367 x 225 mm			
18 kg	18 kg	18 kg	18 kg

^{*} Feed in starts at less than 550 V. ** Power derating at high ambient temperatures.





blueplanet 3.0 TL1 | 3.5 TL1 | 3.7 TL1 4.0 TL1 | 4.6 TL1

2 MPP trackers

Broad MPP range

Lightweight, straightforward mounting

Convenient AC and DC cabling thanks to plug-in connectors

Numerous pre-installed communication interfaces

Data logger with web server

Graphical display, intuitive menu navigation

Priwatt function for the self-use of solar power

Your retailer