KACO new energy.

Data sheet
blueplanet
2200 TL3 indoor

High power. High reliability. High flexibility

The central inverter blueplanet 2200 TL3 indoor.

Designed with utility-grade PV installations in mind, the new blueplanet 2200 TL3 is the largest solar PV inverter in the KACO new energy product range.

The maximum DC input voltage of the blueplanet 2200 TL3 is 1 100 V. This offers you high design flexibility. On the AC side, large cable cross sections reduce cabling losses.

The inverter integrates all conversion, distribution as well as protective devices on both AC and DC side. It is therefore fully equipped for connection and saves you the effort of acquiring additional accessories.

This adds up to smooth, cost-effective installation and commissioning of the blueplanet 2200 TL3. Once in operation, your investment security has top priority. The efficiency reaches outstanding 98.3% for highest energy yields. Three power stacks offer effective protection against yield losses: In the rare event of a power electronics failure, two power stacks remain operative to process two thirds of the available input power.

As an option, the inverter can also provide reactive power at night (Reactive Power Optimisation, RPO). You do not need to purchase any expensive reactive power or to invest in a power factor correction system. On the contrary: You can even negotiate to supply reactive power to your grid operator.

The blueplanet 2200 TL3 is an indoor inverter. It was created to blend perfectly in PV power plant designs that are based on a container solution. Accordingly, KACO new energy offers its own unique, compact 2.2 MVA turnkey container.

The blueplanet 2200 TL3 also provides maximum user-friendliness – irrespective of whether you operate it locally or by means of remote access over the Internet. The inverter is equipped with both fully digital control and digital user interface. Your advantages are:

- easy operation, quick maintenance
- a multitude of options for system monitoring and communication
- activation of country-specific settings at the push of a button.

blueplanet 2200 TL3 indoor

- 1 100 V system voltage for flexible design
- 98.3 % efficiency for maximum yields
- Three power stacks for high availability
- Reactive power at night (RPO) optional
- 2.2 MVA turnkey container solution available

Electrical data	2200 TL3 ID
DC input	
MPP range	550 V … 830 V
Operating range	550 V ... 1 000 V
No-load voltage	1 100 V [1]
Max. input current	3 710 A
Number of DC inputs	24 (250 A DC fuse) 18 (400 A DC fuse)
AC output	
Max. output power / rated power	2 200 kVA / 2 000 kW
Voltage to external transformer	3 x 370 V (+/-10 %)
Max. output current	3 468 A
Rated frequency	50 Hz / 60 Hz
cos phi	0 inductive – 0 capacitive (adjustable)
General electrical data	
Max. efficiency	98.3 %
European efficiency	98.0 %
Internal consumption operation	< 1% of rated power (3 000 W)
Internal consumption standby	< 180 W
Mechanical data	
Interfaces	Color TFT LCD with touchpanel 2 x RS485 / Ethernet / USB 1 user digital input / output
Protocol	Modbus (with Sunspec), SOAP (Simple Object Access Protocol), KACO RS485 protocol
Ambient temperature	-20 °C … +50 °C full rated power, no derating
Cooling	fan
Audible noise	< 70 db(A) [2]
Protection class	IP21
H x W x D	2 150 x 3 100 x 1 400 mm
Weight	4 300 kg
Extras	
Ground fault detection	yes
Emergency stop	yes
Overvoltage protection	DC side, Ethernet
Certifications	
Safety	EN 61000-6-2/-4 / EN 61000-3-11/-12
Grid compliance	BDEW, ... for more see homepage/download area

Conform to the country-specific standards and regulations according to what country version has been set.
[1] 1 100 VDC is no-load voltage. Start-up at DC voltage is under 1 000 VDC and max. operating voltage is 1 000 VDC.
[2] Measured in 10 m distance.

Your retailer

EN 5001005-04-170803