

Powador 500 Kilowatt- Station



High tech deluxe in a pack of two.

The Powador 500 Kilowatt-Station.

With the Powador 500 Kilowatt-Station, KACO is opening the door to a new dimension: You can now get the highest possible output, efficiency and reliability of the KACO central inverters with a cumulative AC rated power of 500 kVA.

The Powador 500 Kilowatt-Station consists of two Powador XP250-HV TL and a medium voltage transformer. KACO offers these components in a ready-to-use steel casing that facilitates transportation and installation.

The high degree of efficiency of the Powador XP250-HV TL is carried forward into the station, of course.

The completely digitally controlled Powador 500 Kilowatt-Station can be configured for the widest possible variety of grid requirements worldwide. Apart from that, the language of the user interface can be freely set. It goes without saying that operation and monitoring are convenient, with everything on a clearly arranged TFT display in colour.

Available for order as of now.

Highlights

- Ready-to-use in concrete station including medium voltage transformer
- Unique power electronics control
- Pulse-width modulation adapted to the output
- Controller power supply is redundant
- Continuous monitoring
- Multi-language menu



Powador 500 kW-Station

Electrical data		500 kW-Station
Input variables		
PV max. generator output		550 kW
MPP range		450 V ... 830 V
No-load voltage		1000 V
Max. input current		2 x 611 A
Ripple voltage		< 3 %
Ripple current		< 4 %
Output variables		
Rated power		500 kVA
Line voltage		acc. to local requirements
Line current		14,4 A
Rated frequency		50 Hz / 60 Hz
cos phi		0,80 inductive ... 0,80 capacitive
Distortion factor		< 3 % at rated output power
General electrical data		
Max. efficiency		98,1 % *
European efficiency		97,8 % *
Internal consumption		< 1 % of rated output power
Internal consumption: Standby		< 200 W
Auxiliary power supply		230 V
Network monitoring		acc. to local requirements
Mechanical data		
Displays		TFT LCD touchscreen
Interfaces		RS485, Ethernet, USB 4 x analogue inputs 1 x digital input / 1 x SO input 1 x digital output / 1 x SO output SD card
Ambient temperature		-20 °C ... +50 °C, non-condensing
Cooling		Fan (max. 13000 m³/h)
Protection class		IP43
EMC		acc. to EN 61000-6-2 / EN 61000-6-4
CE-conformity		yes
H x W x D		3 180 x 5 600 x 2 700 mm
Weight		approx. 11 t

Conforms to the country-specific standards and regulations according to what country version has been set.
* Inverter efficiency. Transformer efficiency may vary.

EN 31001029-03-101129

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