KACO new energy.

Powador Megawatt-Station

High tech deluxe in the "House of the rising Sun".
The Powador Megawatt-Station.

With the Powador Megawatt-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 1 050 kW.

The Powador Megawatt-Station consists of three Powador XP350-HV TL inverters wired together. We offer this "House of the rising Sun", including a medium voltage transformer, in a ready-to-use concrete station.

What is special about it: So that the three inverters are uniformly used to capacity, KACO is introducing for the first time a new system with rotating master functionality. Up to now, the use of master-slave circuits always led to the same inverter taking over the work when there there was low solar insolation. But in the Megawatt-Station, the master-change solution is put into use. According to this principle, the three units alternate as master – an innovation that extends the life of the inverters by several times. And the high degree of efficiency of the Powador XP350-TL HV is carried forward into the Megawatt-Station, of course.

The completely digitally controlled Powador Megawatt-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.

Highlights

- Extended life thanks to the master-change solution
- Ready-to-use in concrete station including medium voltage transformer
- New, patented control of the power electronics
- Pulse-width modulation adapted to the output
- Controller power supply is redundant
- Continuous monitoring
- Multi-language menu

Powador Megawatt-Station

Electrical data	Megawatt-Station
Input variables	
PV max. generator output	1155 kW
MPP range	450 V … 830 V
No-load voltage	1000 V
Max. input current	3 x 856 A
Ripple voltage	< 3%
Ripple current	< 4%
Output variables	
Rated power	1050 kW
Line voltage	acc. to local requirements
Line current	30.34 A
Rated frequency	50 Hz / 60 Hz
Distortion factor at rated power	< 3%
cos phi	0.99 inductive ... 0.90 capacitive
General electrical data	
Max. efficiency	98.2 %*
European efficiency	97.8 %*
Internal consumption	< 1% of the rated power
Internal consumption: Standby	< 300 W
Network monitoring	acc. to local requirements
EMC	in accordance with EN 61000-6-2 / EN 61000-6-4
CE-conformity	yes
Mechanical data	
Displays	TFT LCD touchscreen
Interfaces	RS485, Ethernet, USB
Connections	4 x analogue inputs 1 x digital input / 1 x S0 input 1 x digital output / 1 x S0 output SD card
Ambient temperature	-20 °C … +50 °C
Cooling	Fan (max. 18000 m³/h)
Protection class	IP54
H x W x D	7000 x 3000 x 3440 mm
Weight	approx. 35 t

Conforms to the country-specific standards and regulations according to what country version has been set.

EN 31000815-02-091117

*Inverter efficiency. Transformer efficiency may vary.

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Your retailer

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