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Powador 8000xi

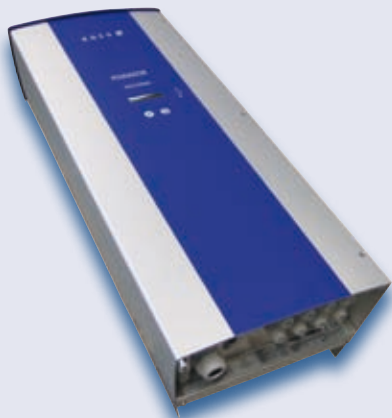
More Dependability. Less Effort.

Simplify the operation and installation of your PV plant.

KACO is represented by four units in the class of devices with power ratings falling between small string inverters and central inverters. The success of the Powador 8000xi was the stimulus behind offering that proven design in additional power levels.

All units include transformerless topology without a step-up converter. DC disconnectors and string fuses are already integrated. This provides maximum safety for the system operator and makes the installer's job easier.

The inverters are also designed to make a strong performance as a trio, and, depending on the layout of the system, represent an alternative to central inverters. In this configuration, each unit feeds into one of the three phases. Each unit can optimally utilise the voltage range of a photovoltaic installation that has been divided into three sub-generators. The integrated Sym-Bus ensures that the asymmetry does not exceed the maximum permitted limit of 4.6 kW, even when there is a fault in a unit.



Powador 8000xi

Highlights

- Integrated string fuses for up to four strings
- Additional monitoring of unsymmetries via special KACO Sym-Bus
- Integrated DC-switch
- Avoiding unsymmetries in the event of phase failures
- Interface mode RS485 adjustable via operating elements
- Integrated potential-isolated fault messaging and S0 interface
- Highest degrees of efficiency due to genuine transformerless technology
- Sturdy, reliable quality made by KACO
- Protection Class IP54
- Easy installation by means of mounting panel and door-type enclosure
- LCD offered as a standard
- Standard 7 years guarantee
- Compatible with all KACO data logging products

Electrical data	8000xi
Input variables	
PV max. generator output	9 000 W
MPP range	350 V ... 600 V
No-load voltage	800 V
Max. input current	24.0 A
Number of strings	4
Number of MPP controllers	1
String fuses	4 x 10 A
Inverse polarity protection	short-circuit diode
Overload protection	integrated
Output variables	
Rated output	8 000 W
Max. output	8 000 W
Supply voltage	acc. to local requirements
Safety cut-out	acc. to local requirements
Rated current	35.0 A
Max. current	35.0 A
Rated frequency	50 Hz
cos phi	≈ 1
Number of grid phases	1
Distortion factor for rated output	< 3%
General electrical data	
Max. efficiency	96.5 %
European efficiency	95.8 %
Standby consumption	11 W
Night consumption	0 W
Min. grid feed	approx. 35 W
Switching plan	self-commutated, transformerless
Network monitoring	acc. to local requirements
Mechanical data	
Display	LCD 2 x 16 characters
Control units	2 buttons for display control
Interfaces	RS485, S0, Sym-Bus
Fault signalling relay	potential-free NOC max. 30V / 1 A
Connections	
AC-connection: PCB terminals within device (max. cross section: 10 mm ²), cable supply via cable connection (M32). DC-connection: 4 strings via PCB terminals (max. cross section: 6 mm ²), cable supply via cable connections M16. Optional DC-connection: 1 x Plus, 1 x Minus without string fuses via PCB terminals (max. cross section: 10 mm ²)	
Ambient temperature	-20 °C ... +60 °C *
Temperature monitoring	temperature-dependent impedance matching with emergency cut-out when device errors occur
Cooling	free convection / no fan
Protection class	IP54
Noise emission	< 35 dB (A) (noiseless)
DC-switch	integrated
Casing	Aluminium
H x W x D	810 x 340 x 220 mm
Weight	38 kg

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

* Derating at higher temperatures

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