

Powador 3002

High flexibility. Easy installation.

The galvanically isolated string inverters Powador 2002 – 6002.

Our inverters of the Powador 02 series, with galvanic isolation, feature effortless installation, the highest degrees of efficiency, and optimum operation with thin-film modules – and make designing a PV system a piece of cake.

Installation is problem-free: All required connections for communication – RS232, RS485, S0 and fault signalling relay – are located on a single circuit board in the housing and can be connected easily. The DC-switch is integrated into the units as a matter of course. They achieve an outstanding efficiency of up to 96%.

Using a Powador 02 inverter, you can build your next PV installation wherever you want: The software knows the international requirements. This helps

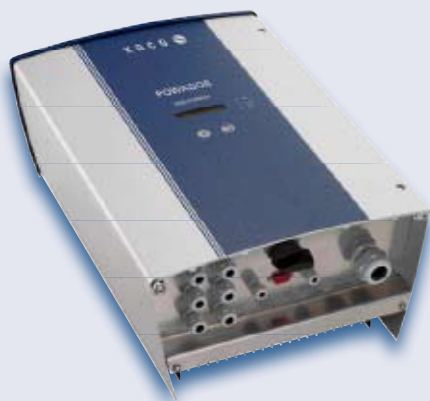
you to quickly and easily connect your PV installation to the grid – simply select the appropriate country setting and display language during installation.

The Powador 02 series skilfully makes use of the advantages of galvanically isolated inverters. The wide input voltage range allows you to be extremely flexible in planning your PV installation. Where transformerless units are out of the question, the Powador 02 series can handle even complex PV system designs.

In addition, KACO offers a generator earthing kit for this series. Thin-film modules often require generator earthing for a long service life. Moreover, the inverters can display the earthing status of the PV generator – important information especially for the safe operation of thin-film modules.

Highlights

- Degree of efficiency up to 96%
- Optimized MPP tracking for higher yield
- Wide range of input voltages for flexible installation planning
- Integrated DC disconnecter
- Galvanically isolated
- Optimally suited for thin-film modules



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Electrical data		3002
Input variables		
PV max. generator power		3 000 W
MPP range		200 V ... 510 V
No-load voltage		600 V *
Max. input current		13.5 A
Number of strings		3
Number of MPP controllers		1
Inverse polarity protection		short-circuit diode
Output variables		
Rated power		2 500 W
Max. power		2 500 W
Supply voltage		acc. to local requirements
Safety cut-out		acc. to local requirements
Rated current		10.9 A
Max. current		12.5 A
Rated frequency		50 Hz / 60 Hz
cos phi		≈ 1
Number of grid phases		1
Distortion factor for rated output		< 3 %
General electrical data		
Max. efficiency		96.0 %
European efficiency		95.4 %
Standby consumption		< 5 W
Night consumption		0.4 W
Min. grid power		15 W
Switching plan		self-commutated, galvanically isolated, HF transformer
Network monitoring		acc. to local requirements
Mechanical data		
Display		LCD 2 x 16 characters
Control units		2 buttons for display control
Interfaces		RS232 / RS485, S0
Fault signalling relay		potential-free NOC max. 30 V / 3 A
Connections		PCB terminals inside the unit (max. cross section. 6 mm ² flexible, 10 mm ² rigid) Cable connection via cable fittings (DC fitting M16, AC fitting M32)
Ambient temperature		-20 °C ... +60 °C **
Cooling		free convection / no fan
Protection class		IP54
Noise emission		< 35 dB (A) (noiseless)
DC-switch		integrated
Casing		Aluminium
H x W x D		500 x 340 x 200 mm
Weight		20 kg

The text and figures reflect the current technical state at the time of printing. Subject to technical changes. Errors and omissions excepted.
* To protect the hardware, the inverter starts up only at < 550 V ** Power derating at high ambient temperatures

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Applicable standards and regulations are taken into account for each country version that is set.