



## Transformer-type inverters of the new xi - series.

High degree of efficiency. Easy installation - Proven high quality made by KACO.  
We integrated new features - and enhanced existing ones.



full of energy.



### We integrated new features:

- Extended input voltage range up to 500 VDC
- Enclosure with door-type covers for easy installation
- Direct connection inside the inverter, without requiring any plugs
- Interface mode RS232/RS485 adjustable via operating elements
- Integrated potential-free fault indication
- S<sub>o</sub>- interface for direct control of large displays



### ... and enhanced existing ones:

- Highest degrees of efficiency in its class of electrically isolated devices
- Suitable for thin-film modules
- High input current - therefore suitable for large solar cell sizes
- Single-phase connection via BIS1 grid monitoring (BIS1 = **Bi-directional Safety Interface**). New, innovative and failsafe grid monitoring according to VDE 0126
- Rugged design and highly reliable quality made by KACO
- Protection Class IP 54
- Purely convection-cooled
- Illuminated LCD display offered as a standard feature

Type	Max. solar generator	AC rated power	Max. AC power
Powador 1501xi	2000 W	1500 W	1650 W
Powador 3501xi	4000 W	3300 W	3600 W
Powador 4501xi	6000 W	4600 W	5060 W

#### Available variants

Type description	
	Powador 1501xi, Powador 3501xi, Powador 4501xi

#### Input Electrical Data

Possible generator power	1 to 6.0 kWp (depending on type)
MPP range	125 ... 400 VDC
Max. no-load voltage	500 VDC

#### Output Electrical Data

AC rated power	1.5kW, 3.3kW, 4.6kW
Max. AC power	Rated power + 10%
Grid voltage	230 / 240V4
Frequency	49,8... 50,2 Hz
Grid monitoring	BIS1 according to VDE 0126, VDEW-compliant

#### Inverter Electrical Data

Max. degree of efficiency	95%
European degree of efficiency	93.2 ... 94.2%
Circuit design	Islanding protection; Electrically isolated DC/DC converter with downstream inverter
Clock frequency	18 kHz

#### Inverter Mechanical and technical Data

Optical displays	DC Power in (green) AC Power out (green) Failure (red) Illuminated LC display (2 x 16 characters)
Operating elements	2 keys for display operation
Interfaces	RS232 / RS485 (selectable via keys) Optional: S <sub>o</sub> -interface for the control of large displays
Fault signal message	Potential-free contact
Connections	AC connection via terminals DC connection via terminals
Ambient temperature	-20°C ... +40°C
Cooling	Pure convection
Protection class	IP54 according to EN 60529

### High degree of efficiency

### Easy installation

### Proven quality made by KACO

Electrically isolated solar inverters made by KACO meet all the demands placed on advanced state-of-the-art inverters: user-convenience, innovative technology, highest degrees of efficiency and maximum longevity. All these attitudes are combined in our products.

“Made in Germany” is not just an empty promise for KACO: All its processes, from the design right through to production, take place in Germany where KACO has been producing all kinds of power supplies for more than 60 years. Our successful inverter series, Powador, has been built on the basis of this vast know-how.

Our solar inverters are installed as easy as A-B-C: wall installation is carried out by means of a mounting panel and safety lock/catch mechanism. Cables are wired directly inside the inverter by means of terminal screws. The enclosure is equipped with door-type covers to ensure fast access to these terminal screws.

An adjustable interface mode will make you even more flexible when selecting your accessories and data recording or data evaluation. This feature allows on-site selection of the desired interface protocol (RS232 or RS485). In addition, a potential-free fault-message relay has been integrated.

The new design underlines all these new product features for added value of the new series of solar inverters, while maintaining their proven reliability and ruggedness. Protection class IP 54 makes our inverters suitable for harsh operating conditions.

There are absolutely no compromises as far as our guarantee and services are concerned. Our six-year guarantee (with an option to be extended to 10 years) is aimed at setting new standards.



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