



K A C O 
new energy.

Powador 30.0 TL3

Efficient. Flexible. Future-oriented.

Transformerless three-phase inverters Powador 30.0 TL3-39.0 TL3.

Based on the idea of the successful 30-kW family, we have completely redesigned these units. As three-phase units without a neutral conductor, they feed between phases with the typical offset of 120 degrees. And you don't have to worry about whether these units comply with the new connection guidelines.

These units give you a lot of flexibility in designing your PV system. You can process the solar power from as many as six strings. They operate with three separate MPP trackers to allow for optimum adjustment. The input voltage window is extremely wide: 350 to 800 V.

It is easy to achieve perfect communication with the three units. In addition to the normal RS485 interface, which enables you to query yield data with the

Powador-proLOG, they offer innovations that provide a lot of convenience: an integrated web server for uninterrupted monitoring via Ethernet, a USB connection for installing software updates and downloading all log data, as well as a graphic display to view operating data.

A number of country-specific default settings are programmed into the inverters. These are easy to select during on-site installation. Your choice of operating language is independent of these settings.

Of course you can also operate the units with an integrated generator junction box (GJB) or an external GJB string collector (see page 44f).

Available for delivery as of January 2011

Highlights

- Three-phase inverter
- Transformerless
- Three MPP trackers
- Efficiency: 98%
- Multilingual menu
- Graphical display
- Integrated web server
- USB connection for updates and downloads



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Electrical data		30.0 TL3
Input variables		
PV max. generator output		30 000 W
MPP range		350 V ... 800 V
No-load voltage		1 000 V
Max. input current		3 x 27.4 A
Number of strings per MPP controller		6 based on design M / 5 based on design L, XL
Number of MPP controllers		3
Output variables		
Rated output		25 000 VA
Line voltage		400 V / 230 V (3 / N / PE)
Rated current		36.2 A
Rated frequency		50 Hz / 60 Hz
cos phi		0.80 inductive ... 0.80 capacitive
Number of grid phases		3
General electrical data		
Max. efficiency		98 %
European efficiency		97 %
Night consumption		< 1 W
Switching plan		self-inverted, transformerless
Network monitoring		acc. to local requirements
Clock frequency		18 kHz
Mechanical data		
Display		graphical display + LEDs
Control units		4-way navigation + 2 buttons
Interfaces		Ethernet, USB, RS485, S0 output
Fault signalling relay		potential-free NOC max. 230 V / 1 A
Connections		AC-connection via screw terminals, feed through 1 x M40, max. cross section: 50 mm ² flexible; DC-connection via screw terminals, feed through 6 x M32
Ambient temperature		-20 °C ... +60 °C*
Temperature monitoring		> 75 °C temperature-dependent impedance matching, > 85 °C cut-out
Cooling		forced cooling / RPM-regulated fan. max. 600 m ³ / h
Protection class		IP54
Noise emission		58 dB (A) (only fan noise)
DC-switch		integrated
Casing		sheet steel
H x W x D		1 460 x 835 x 340 mm
Weight		190 kg

*Derating at higher temperatures

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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.

Your retailer