



K A C O 
new energy.

Powador
XP200-HV TL
XP250-HV TL

Extremely powerful. Extremely flexible. Transformerless technology.

The central inverters Powador XP200-HV TL and XP250-HV TL.

These inverters are the transformerless units within the Powador XP series. State-of-the-art, DSP-based technology offers highest performance, reliability and efficiency. A digital interface enables user-friendly operation, maintainability and highly advanced monitoring and communication.

The unique control of power electronics clearly increases the switching efficiency of the power transistors: Depending on the input power that is currently present, one of several pulse-width modulation methods is used. This means higher levels of efficiency and better yields.

The Powador XP series guarantees highest reliability due to the use of a secondary backup power supply for the control

board, and a highly efficient cooling system for critical components. The fans are monitored and operated based on load and ambient temperature.

The devices excel with a powerful, user-friendly digital interface. The "all-inclusive" concept allows convenient operation and monitoring without requiring any additional equipment. A clearly structured, large TFT LCD color touchscreen shows detailed operating data in several languages.

You can also monitor your plant via the internet. This feature allows permanent monitoring of all critical components. The error tracing function reports potential error statuses of the units immediately and sends diagrams that guarantee rapid localisation of the source of the error.

The Powador XP central inverters meet global standards – with just the push of a button the parameters can be adjusted to meet local rules and regulations. You can also select from a variety of menu languages independent of the country of installation.

From July on, the XP series are able to provide reactive power. New devices are available for order as of now.



Powador XP200-HV TL XP250-HV TL

Highlights

- Maximum flexibility due to transformerless design
- Unique power electronics control
- Load-adaptive pulse-width modulation
- Controller power supply is redundant
- Continuous, remote monitoring
- 16:9 LCD touchscreen
- Multi-language menu

Electrical data	XP200-HV TL	XP250-HV TL
Input variables		
PV max. generator output	220 kW	275 kW
MPP range	450 V ... 830 V	450 V ... 830 V
No-load voltage	1 000 V	1 000 V
Max. input current	467 A	611 A
Ripple voltage	< 3 %	< 3 %
Ripple current	< 4 %	< 4 %
Output variables		
Rated output	200 kVA	250 kVA
Voltage to external transformer	3 x 290 V (+/- 10 %)*	3 x 290 V (+/- 10 %)*
Rated frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Rated current	398 A	498 A
cos phi	0.80 inductive ... 0.80 capacitive	
Distortion factor	< 3 % at rated output power	
General electrical data		
Max. efficiency	98.2 %	98.1 %
European efficiency	97.8 %	97.8 %
Consumption	< 1 % of rated output power	
Standby consumption	< 100 W	< 100 W
Auxiliary power supply	230 V	230 V
Network monitoring	acc. to local requirement	
Mechanische Daten		
Display	TFT LCD Touchscreen	TFT LCD Touchscreen
Interfaces	RS485 / Ethernet / USB 4 x analog input 1 x digital input 1 x S0-input 1 x digital output 1 x S0-output SD card	RS485 / Ethernet / USB 4 x analog input 1 x digital input 1 x S0-input 1 x digital output 1 x S0-output SD card
Ambient temperature	-20 °C ... +50 °C	-20 °C ... +50 °C
Cooling	fan (max. 4 040 m³/h)	fan (max. 4 040 m³/h)
Protection class	IP21	IP21
Noise emission	< 70 dB (A)	< 70 dB (A)
EMC	acc. to EN 61000-6-2 / EN 61000-6-4	
CE-conformity	yes	yes
H x W x D	2 120 x 2 400 x 870 mm	2 120 x 2 400 x 870 mm
Weight	1 170 kg	1 200 kg

Conform to the country-specific standards and regulations according to what country version has been set.
* Inverter needs to be operated in conjunction with an additional, appropriate transformer.

EN 311001009-01-100525

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