

Data sheet
Powador
XP500-HV TL
outdoor **NEW**
XP550-HV TL
outdoor **NEW**



High output. High reliability. High protection.

The central inverters Powador XP500-HV TL outdoor and Powador XP550-HV TL outdoor.

The central inverters Powador XP500-HV TL outdoor and Powador XP550-HV TL outdoor are specially designed for outdoor applications. With the protection class IP54 they do not require a separate enclosed room for installation. This means that both units offer an alternative to central inverter stations depending on the project requirements. The latest signal-processing technology offers maximum performance, efficiency and reliability. The fully digital controller makes operation and maintenance user-friendly and offers a multitude of options for monitoring and communications.

Our unique power electronics control increases the switching efficiency of the

power transistors: Depending on the input power currently present, one of several pulse-width modulation methods is used. This means higher levels of efficiency and better yields. The Powador XP Series also offers maximum reliability: the internal power supply of the controller is designed redundantly and an extremely powerful cooling system protects sensitive components. The speed of the cooling fan is variably controlled depending on the load and ambient temperature.

The digital user interface makes control and monitoring of the units easy. You can monitor your system remotely over the internet. The operation of all critical components is continuously monitored

and potential faults are reported immediately. If a fault occurs, diagrams that guarantee rapid localisation of the source of the fault are generated.

The Powador XP is an inverter for the world: country-specific settings can be activated at the press of a button.

It goes without saying that all units in the XP series fulfil the requirements of the German Low and Medium Voltage Directives.

The units are available in Q4/2012.

Technical data

Powador XP500-HV TL outdoor | XP550-HV TL outdoor

Electrical data	XP500-HV TL outdoor NEW	XP550-HV TL outdoor NEW
Input variables		
Max. recommended PV generator power	600 kW	660 kW
MPP range	550 V ... 830 V	550 V ... 830 V
No-load voltage	1 100 V*	1 100 V*
Max. input current	1 091 A	1 200 A
Ripple voltage	< 3 %	< 3 %
Ripple current	< 4 %	< 4 %
Output variables		
Rated output	500 kVA	550 kVA
Voltage to external transformer	3 x 370 V (+/- 10 %)	3 x 370 V (+/- 10 %)
Rated frequency	50 Hz	50 Hz
Rated current	780 A	858 A
cos phi	0.80 inductive ... 0.80 capacitive	0.80 inductive ... 0.80 capacitive
Distortion factor	< 3 % at rated output power	< 3 % at rated output power
General electrical data		
Max. efficiency	98.7 %	98.7 %
European efficiency	98.3 %	98.3 %
Consumption	< 1 650 W	< 1 650 W
Standby consumption	< 110 W	< 110 W
Auxiliary power supply	230 V	230 V
Grid monitoring	acc. to local requirement	acc. to local requirement
Mechanical data		
Interfaces	2 x 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	2 x 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 full rated power, no derating	-20 °C ... +50 °C full rated power, no derating
Cooling	fan (max. 6 660 m ³ /h)	fan (max. 6 660 m ³ /h)
Protection class	enclosure: IP44, electronics: IP54	enclosure: IP44, electronics: IP54
Noise emission	< 70 dB (A)	< 70 dB (A)
EMC	acc. to EN 61000-6-2 / EN 61000-6-4	acc. to EN 61000-6-2 / EN 61000-6-4
CE-conformity	yes	yes
H x W x D	2 150 x 2 600 x 860 mm	2 150 x 2 600 x 860 mm
Weight	2 200 kg	2 200 kg

Conform to the country-specific standards and regulations according to what country version has been set.
To protect the hardware, the inverter starts up only at voltages < 1000 V



Powador
XP500-HV TL outdoor
XP550-HV TL outdoor

Maximum flexibility due to transformerless design

Load-adaptive pulse-width modulation

Continuous, remote monitoring

Conforms to the German Medium and Low Voltage Directives

Your retailer
