

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



High output. High reliability. High protection.

The Powador XP500-HV TL outdoor and input power currently present, one of the Powador XP550-HV TL outdoor have mance, 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 power transistors: Depending on the IP protocol. The operation of all critical

several pulse-width modulation methods been especially conceived for outdoor is used. This means higher levels of effiuse. With the protection class IP54 they ciency and better yields. The Powador XP do not require a separate enclosed room series also offers maximum reliability: the for installation. This means that both internal power supply of the controller is units offer an alternative to central in- designed redundantly and an extremely verter stations depending on the project powerful cooling system protects sensirequirements. The latest signal-process- tive components. The speed of the cooling technology offers maximum perfor- ing fan is variably controlled depending on the load and ambient temperature.

The Powador XP500-HV TL outdoor and XP550-HV TL outdoor feature a powerful Human Machine Interface (HMI). It provides for local data logging via SD card as well as remote control and online moniincreases the switching efficiency of the toring via RS485 generic or Modbus TCP/

components is continuously monitored and potential faults are reported immediately.

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

Technical data

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

Electrical data	XP500-HV TL outdoor	XP550-HV TL outdoor
DC input		
MPP range	550 V 830 V	550 V 830 V
Operating range	550 V 1000 V	550 V 1000 V
No-load voltage	1 100 V ¹⁾	1 100 V ¹⁾
Max. input current	1091 A	1200 A
Number of DC inputs	6	6
AC output		
Rated output	500 kVA	550 kVA
Voltage to external transformer	3 x 370 V (+/- 10 %)	3 x 370 V (+/- 10 %)
Rated frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
Rated current	780 A	858 A
cos phi	0.80 inductive 0.80 capacitive	0.80 inductive 0.80 capacitive
General electrical data		
Max. efficiency	98.7 %	98.7 %
European efficiency	98.3 %	98.3 %
Consumption	<1650 W	<1650 W
Standby consumption	<110 W	<110 W
Mechanical data		
Interfaces	2 x RS485 / Ethernet / Wi-Fi 1 x digital input / -output SD card	22 x RS485 / Ethernet / Wi-Fi 1 x digital input / -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. 6940 m³/h)	fan (max. 6940 m³/h)
Protection class	IP54	IP54
Noise emission	< 70 dB(A) ²⁾	< 70 dB(A) ²⁾
H x W x D	2 125 x 2 600 x 860 mm	2 125 x 2 600 x 860 mm
Weight	2 200 kg	2 200 kg
Extras		
Ground fault detection	yes	yes
Protection against moisture	integrated hygrostat and heating combination	
Emergency stop	yes	yes
Overvoltage protection DC/AC/Ethernet	yes	yes
Certifications		
Safety	IEC 62109-1/IEC 62109-2/EN 61000-6-2/EN 61000-6-4/EN 61000-3-3/EN 61000-3-12	
Grid compliance	BDEW, for more see homepage/download area	

Conform to the country-specific standards and regulations according to what country version has been set. ¹⁾ To protect the hardware, the inverter starts up only at voltages < 1000 V.²⁾ Measured at a 10 m distance.



Powador XP500-HV TL outdoor XP550-HV TL outdoor

Highest efficiency

Maximum power density

Maximum flexibility due to transformerless design

Load-adaptive pulse-width modulation

Continuous, remote monitoring

Designed for outdoor use