



Data sheet

Powador 6.0 TL3 | 7.8 TL3 9.0 TL3

Small power stations for the energy turnaround.

Transformerless three-phase inverters Powador 6.0 TL3 to 9.0 TL3.

The Powador 6.0 TL3 to 9.0 TL3 operate using two separate MPP trackers that can handle both symmetrical and asymmetrical loads to allow for optimum adjustment. Each tracker is able to process all of the AC output. This allows for all typical requirements of complex designs to be fulfilled; on the one hand, for example, full configuration of an east/westfacing roof (symmetrical load) or, on the other hand, the regular configuration of a south-facing roof without having to dispense with the solar yield of a dormer (asymmetrical load).

The MPP trackers can also be connected in parallel: installation costs less (you do not need an additional external disconnector) when strings need to be combined before the inverter. Two strings can be connected per MPP controller, i.e. 4 strings for each unit.

The rated input voltage range is particularly broad. From 250V the units switch to the mains and during operation they still feed in at 200V. This means that solar yields are optimum for comparatively small areas such as dormers or carports but they also operate for more of the day. The units have a peak efficiency of about 98% and the European efficiency is also above average.

The compact design weighing 40 kg combined with the DC connection via solar connectors makes installation very easy and economical. Protection class IP65 ensures the greatest possible flex-ibility when selecting the installation location.

It is easy to achieve perfect communication with these units. They are fitted with an integrated data logger with web server, a graphical display for showing operating data and a USB port for installing firmware updates. The current software can be downloaded free of charge from the download area of our homepage. The yield data can be called from the web server or via USB for evaluation. The integrated data logger can also be connected directly to the Powador web internet portal for professional evaluation and visualisation of the inverter data.

A number of country-specific default settings are programmed into the inverters. These are easy to select during on-site installation. The interface language can be selected separately. The inverters support the functions of the Powador-protect for grid and plant protection and also power management.

And, if you want to use your self-generated solar power in your own home, the Powador 6.0 TL3 to 9.0 TL3 also come with our Priwatt function for managing self-use.

Technical data

Powador 6.0 TL3 | 7.8 TL3 | 9.0 TL3

Electrical data	6.0 TL3	7.8 TL3
Input variables		
Max. recommended PV generator power	6000 W	7 800 W
MPP range	200 V 800 V ¹⁾	200 V 800 V ²⁾
Starting voltage	250 V	250 V
No-load voltage	1000 V	1 000 V
Max. input current	2x11.0 A	2x11.0 A
Number of MPP trackers	2	2
Max. power/tracker	5.2 kW	6.7 kW
Number of strings	2x2	2x2
Output variables		
Rated output	5000 VA	6500 VA
Supply voltage	acc. to local requirements	acc. to local requirements
Rated current	3x7.25 A	3x9.5 A
Rated frequency	50 Hz / 60 Hz	50 Hz / 60 Hz
cos phi	0.80 inductive 0.80 capacitive	0.80 inductive 0.80 capacitive
Number of grid phases	3	3
General electrical data		
Max. efficiency	97.8 %	97.8 %
Europ. efficiency	96.3 %	96.7%
Night consumption	1.5 W	1.5 W
Switching plan	transformerless	transformerless
Grid monitoring	acc. to local requirements	acc. to local requirements
Mechanical data		
Display	graphical display + LEDs	graphical display + LEDs
Control units	4-way navigation + 2 buttons	4-way navigation + 2 buttons
Interfaces	Ethernet, USB, RS485, S0 output	Ethernet, USB, RS485, SO output
Fault signalling relay	potential-free NOC max. 230 V / 1 A	potential-free NOC max. 230 V / 1 A
Connections	DC: solar connector, AC: cable connection M40 and terminal (max. cross-section: 16 mm ² flexible, 10 mm ² rigid)	DC: solar connector, AC: cable connection M40 and terminal (max. cross-section: 16 mm ² flexible, 10 mm ² rigid)
Ambient temperature	-25 °C +60 °C ⁴⁾	-25 °C +60 °C 4)
Cooling	temperature-dependent fan	temperature-dependent fan
Protection class	IP65	IP65
Noise emission	< 52 dB (A) (noiseless when operated without fan)	< 52 dB (A) (noiseless when operated without fan)
DC switch	integrated	integrated
Casing	aluminium casting	aluminium casting
H x W x D	690 x 420 x 200 mm	690 x 420 x 200 mm
Weight	40 kg	40 kg

Electrical data	9.0 TL3
Input variables	
Max. recommended PV generator power	9000 W
MPP range	200 V 800 V ³⁾
Starting voltage	250 V
No-load voltage	1 000 V
Max. input current	2x11.0 A
Number of MPP trackers	2
Max. power/tracker	7.7 kW
Number of strings	2x2
Output variables	
Rated output	7 500 VA
Supply voltage	acc. to local requirements
Rated current	3x10.9 A
Rated frequency	50 Hz / 60 Hz
cos phi	0.80 inductive 0.80 capaci
Number of grid phases	3
General electrical data	
Max. efficiency	97.9%
Europ. efficiency	96.9%
Night consumption	1.5 W
Switching plan	transformerless
Grid monitoring	acc. to local requirements
Mechanical data	
Display	graphical display + LEDs
Control units	4-way navigation + 2 buttor
Interfaces	Ethernet, USB, RS485, SO ou
Fault signalling relay	potential-free NOC max. 23
Connections	DC: solar connector, AC: cal (max. cross-section: 16 mm ²
Ambient temperature	-25 °C +60 °C 4)
Cooling	temperature-dependent fan
Protection class	IP65
Noise emission	< 52 dB (A) (noiseless when without fan)
DC switch	integrated
Casing	aluminium casting
H x W x D	690 x 420 x 200 mm
Weight	40 kg
	¹⁾ The possible input pow ²⁾ The possible input pow ³⁾ The possible input pow

³⁾ The possible input power is reduced at voltages lower than 350 V. The input current is limited to 11.0 A per input. ⁴⁾ Power derating at high ambient temperatures.

Conforms to the country-specific standards and regulations according to the country version that has been set.

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wer is reduced at voltages lower than 240 V. The input current is limited to 11.0 A per input. ower is reduced at voltages lower than 310 V. The input current is limited to 11.0 A per input. The possible input power is reduced at voltages lower than 350 V. The input current is limited to 11.0 A per input. ⁴⁾ Power derating at high ambient temperatures.

Conforms to the country-specific standards and regulations according to the country version that has been set.



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Up to 97.9 % efficiency

Two MPP trackers, symmetrical and asymmetrical loading possible

Multilingual menu

Graphical display

Data logger with web server

USB connection for updates

Priwatt function for the self-use of solar power

Your retailer