



Powador
30.0 TL3
37.5 TL3
39.0 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 twelve strings. They operate with three separate MPP trackers that can handle asymmetric loads 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.

Highlights

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

Technical Data

Powador 30.0 TL3 | 37.5 TL3 | 39.0 TL3

Electrical data	30.0 TL3	37.5 TL3
Input variables		
PV max. generator output	30 000 W	37 500 W
MPP range	350 V ... 800 V	350 V ... 800 V
No-load voltage	1 000 V	1 000 V
Max. input current	3 x 34.0 A	3 x 34.0 A
Max. power/tracker	20 kW	20 kW
Number of strings per MPP controller	3x1 based on design M / 3x4 based on design XL	3x1 based on design M / 3x4 based on design XL
Number of MPP controllers	3	3
Output variables		
Rated output	25 000 VA	30 000 VA
Supply voltage	acc. to local requirements	acc. to local requirements
Rated current	3x36.2 A	3x43.5 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	98 %	98 %
European efficiency	97 %	97 %
Night consumption	< 1 W	< 1 W
Switching plan	self-inverted, transformerless	self-inverted, transformerless
Network monitoring	acc. to local requirements	acc. to local requirements
Clock frequency	18 kHz	18 kHz
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, S0 output
Fault signalling relay	potential-free NOC max. 230 V / 1 A	potential-free NOC max. 230 V / 1 A
Connections	AC connection via screw terminals, bushing 1 x M50, max cross section: 50 mm ² (flexible); DC connection of M version: spring-type terminals 6-35 mm ² ; DC connection of XL version: screw and spring-type terminals 10 mm ² , bushing 6 x M32	AC connection via screw terminals, bushing 1 x M50, max cross section: 50 mm ² (flexible); DC connection of M version: spring-type terminals 6-35 mm ² ; DC connection of XL version: screw and spring-type terminals 10 mm ² , bushing 6 x M32
Ambient temperature	-20 °C ... +60 °C*	-20 °C ... +60 °C*
Temperature monitoring	> 75 °C temperature-dependent impedance matching, > 85 °C cut-out	> 75 °C temperature-dependent impedance matching, > 85 °C cut-out
Cooling	forced cooling / RPM-regulated fan, max. 600 m ³ / h	forced cooling / RPM-regulated fan, max. 600 m ³ / h
Protection class	IP54	IP54
Noise emission	58 dB (A) (only fan noise)	58 dB (A) (only fan noise)
DC switch	integrated	integrated
Casing	sheet steel	sheet steel
H x W x D	1 360 x 840 x 355 mm	1 360 x 840 x 355 mm
Weight	151 kg	151 kg

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*Derating at higher temperatures

Electrical data	39.0 TL3
Input variables	
PV max. generator output	39 000 W
MPP range	350 V ... 800 V
No-load voltage	1 000 V
Max. input current	3 x 34.0 A
Max. power/tracker	20 kW
Number of strings per MPP controller	3x1 based on design M / 3x4 based on design XL
Number of MPP controllers	3
Output variables	
Rated output	33 300 VA
Supply voltage	acc. to local requirements
Rated current	3x48.3 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, bushing 1 x M50, max cross section: 50 mm ² (flexible); DC connection of M version: spring-type terminals 6-35 mm ² ; DC connection of XL version: screw and spring-type terminals 10 mm ² , bushing 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	1 360 x 840 x 355 mm
Weight	151 kg

*Derating at higher temperatures



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