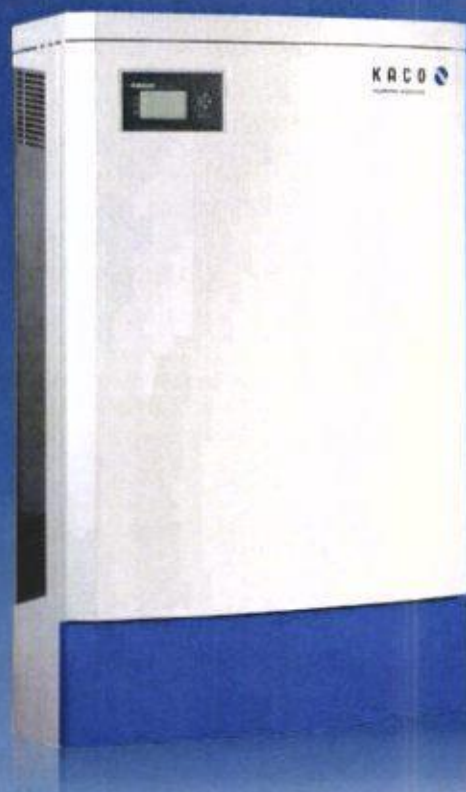




KACO 
new energy.

Data sheet

Powador

30.0 TL3 | 33.0 TL3

36.0 TL3 | 39.0 TL3

40.0 TL3 | 60.0 TL3

Efficient. Flexible. Future-oriented.

Transformerless three-phase inverters Powador 30.0 TL3 to 60.0 TL3.

The transformerless three-phase inverters Powador 30.0 TL3 to 60.0 TL3 are designed specifically for decentralised installation of photovoltaic systems for commercial and industrial applications, such as hangars and factory roofs.

These units give you extreme flexibility in designing your PV system. They operate using three separate MPP trackers that can handle both symmetrical and asymmetrical loads to allow for optimum adjustment. Each tracker is able to process 20 kW. This enables them to meet all the typical demands of more complex designs involved with inhomogenous installation of the photovoltaic generator. Three MPP trackers can also compensate for mismatches between modules, such as those resulting from temperature differences and uneven solar radiation. Depending on the design of the units, one string (variant M) or four strings (variant XL) can be connected per MPP tracker.

Each of the three MPP trackers of the Powador 60.0 TL3 XL can even be connected to five strings.

The input voltage range is particularly broad: the inverters switch to the grid from 250 V, and, when in operation, they still feed in at 200 V to ensure the solar yield from comparatively small areas. The peak efficiency is 98%. The European efficiency of 97.8% is also worth noting and is due to the fact that the unit has a very high partial load efficiency in the lower power ranges. At just 5% rated power they operate at 95% efficiency.

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.

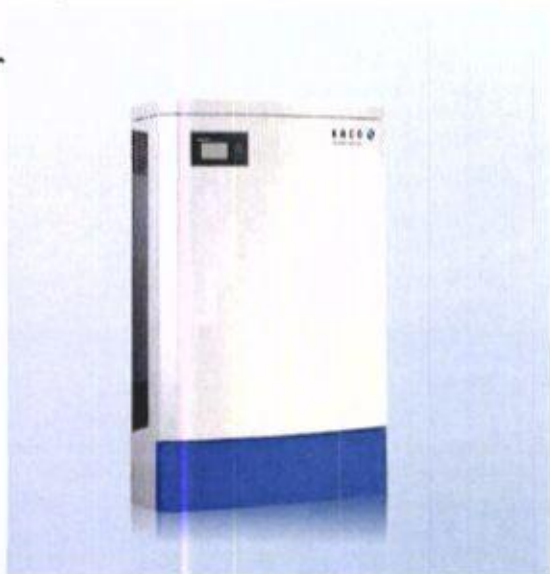
A number of country-specific default settings are programmed into the inverters. These are easy to select during on-site installation. The interface language can be selected separately. The inverters support the functions of the Powador-protect for grid and plant protection.

The integrated string collector with string fuses and overvoltage protection for the XL variant of the units opens up significant cost advantages. The M variants use the external Powador Mini-Argus string collector instead.

Powador	30.0 TL3	33.0 TL3	36.0 TL3	39.0 TL3	40.0 TL3	60.0 TL3
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[illegible]

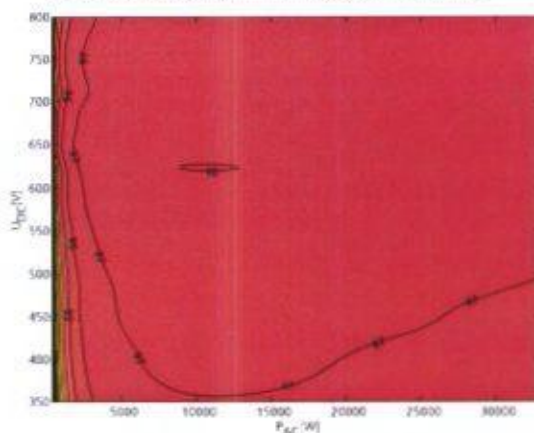
^a If the possible input power is reduced at voltages lower than 480 V, the input current is limited to 34.0 A per engine.



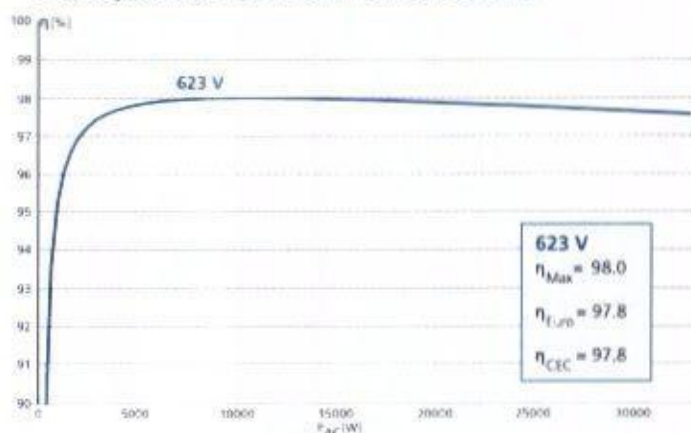
Powador
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40.0 TL3 | 60.0 TL3

Graphical Display of efficiency

3D efficiency diagram for Powador 39.0 TL3



Efficiency characteristic curve for Powador 39.0 TL3



98 % efficiency

3 MPP trackers, symmetrical
and asymmetrical loading possible

Multilingual menu

Cost-saving XL version with
integrated combiner box

Graphical display

Integrated web server

USB connection for updates

www.kaconewenergy.com

Your retailer