A-Z TRADERS

In-house production and development in the Czech Republic

Rozváděče pro fotovoltaiku

Inteligentní regulace

Dobíjecí stanice pro elektromobily

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Monitoring

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A-Z WATER INVERTER

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Water heating from photovoltaics AZ WATER INVERTER (e.g. for NZÚ light) offers efficient direct powering of the boiler from the sun. The optimal economic and technical solution for powering the boiler directly from photovoltaics without the need for large, heavy and expensive technology. According t...

View product | Price after registration

PRODUCT DESCRIPTION

Water heating from photovoltaics **AZ WATER INVERTER** (e.g. for NZÚ light) offers efficient direct powering of the boiler from the sun. The optimal economic and technical solution for powering the boiler directly from photovoltaics without the need for large, heavy and expensive technology. According to the set mode, the device directly feeds the boiler from the production of solar panels without unnecessary losses.

For optimal efficiency, the output from the panels is processed via MPPT, which guarantees the optimal operating point and the highest efficiency of electricity production. Since the boiler is essentially a purely ohmic load, the power is processed practically from the first produced watt (> 50W production) of energy from the panels directly to
warm water.

With regard to the universality of use, the output voltage is alternating with the frequency of the network, thereby eliminating the need to use special boilers for DC power supply. The unit is designed for an input voltage of 50 to 400 V DC with regard to the operating voltage of the boiler's heating cartridge.

In practice, the optimal combination of four to five panels with a power of 450-550 W per panel with a boiler at 230 V. The unit is supplied with a temperature sensor, thanks to which it is possible to set the final temperature for heating from FVE or HDO, according to the function mode.

The unit does not need an HDO signal input, it can be switched directly as a consumer (boiler). Of course, the unit is equipped with a fuse on the DC side and a disconnector.

Technical parameters	Value
DC input voltage (from PV panels)	50-400 V including transients and voltage peaks
AC input voltage (mains)	230/240 V 50 Hz
Output voltage (AC)	50 to 400 V
Maximum PV current	15 A
Maximum AC current	16 A
Maximum power of the heating cartridge	3500W
Output voltage frequency	115-125 Hz
Efficiency	> 95%
Set temperature range	30-70 °C
Operating temperature of the unit	-10 to 45 °C
PV power connector	MC4

Technical parameters	Value
AC power connector	spring clamp 1.5 – 4 mm2
AC output (boiler)	spring clamp 1.5 – 4 mm2
Protections	overcurrent, overheating, undervoltage
Cooling	active (fan) 2 stages
Cover	IP20
Dimensions	155x222x70 mm
Weight	1050 g