



PS100-WT

One-phase wind turbine inverter

Power range: 1 kW, 3 and 5.5 kW

PS100-WT is one-phase output inverter intended for use with small wind power plants based on permanent magnet generators.

Input (generator side)

- Generator type: permanent magnet synchronous generator up to 5.5 kW
- Nominal voltage: 3 x 230 Vac
- Voltage range: 3 x 60 – 290 Vac
- Maximum current:

PS100-WT/1kW	7 A
PS100-WT/3kW	13 A
PS100-WT/5.5kW	24 A

Output (electrical grid side)

- Voltage: 1 x 230 Vac
- Frequency: 50 Hz (-2,5 Hz .. +1,5 Hz)
- Nominal power:

PS100-WT /1kW	1000 W
PS100-WT /3kW	3000 W
PS100-WT /5.5kW	5500 W
- Nominal current:

PS100-WT /1kW	4,5 A
PS100-WT /3 kW	13 A
PS100-WT /5.5 kW	25 A
- Total harmonic distortion factor for output current (THDi): < 3%
- Energy consumption in stand-by mode: 2 W

General features

- Maximum efficiency: 97%
- Overload: 110%
- MPPT: 16-point characteristics $i=f(\omega)$,
where: i - turbine load, ω – turbine frequency
on-grid, off-grid (with additional module)
- Type: 3
- Digital outputs (relays): 5
- Digital inputs: Ethernet, Modbus RTU (RS-485)
- Communication: Ethernet, Modbus RTU (RS-485)
- Terminals for controlling the position of the wind turbine tail
- Terminals for connecting generator braking resistors
- Terminals for connecting an anemometer with an NPN type OC output
(ex. NP-3 Fardata)
- IP 65

Protections

- Anti-island detection • short-circuit and overvoltage protection
- Undervoltage from electric grid side • Thermal protection

Monitoring by WWW

- Dedicated Internet site: www.inverters.pl
- Monitored data:
 - » instantaneous power and last day energy
 - » total energy since the installation time
 - » input/output currents and voltages
 - » heatsink temperature
 - » wind speed (with optional anemometer)

Dimensions and weight

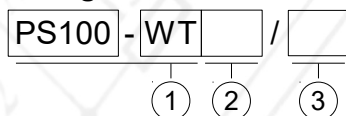
Width x height x depth:

- PS100-WT/1kW, PS100-WT/3kW: 290 x 425 x 190 mm
- PS100-WT/5.5kW: 340 x 455 x 190 mm

Weight:

- PS100-WT/1kW, PS100-WT/3kW: 14 kg
- PS100-WT/5.5kW: 16 kg

Ordering info



- (1) **PS100-WT** – 1-phase inverter with permanent magnet synchronous generator input (AC)
- (2) Built-in battery charger module:
„without sign” - not present
+BC - present
- (3) Power of inverter:
1 kW; 3 kW; 5.5 kW

We may make changes to specifications and product descriptions at any time, without any notice.

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