



PS100-PV

One-phase photovoltaic inverter

Power range: 1.0 kW, 3 kW, 5.5 kW

- **PS100-PV** is a one-phase inverter designed for use in photovoltaic (PV) installations with powers up to 5.5 kW.
- It is characterised by low starting voltage.
- It has an advanced MPPT tracking system that guarantees finding the optimal working point even with panels partly shaded or serially connected.

Input - PV panel side

- MPPT voltage range: 60 – 450 V_{DC}
- Feed-in start voltage: 60 V_{DC}
- Nominal input voltage: 300 V_{DC}
- Maximum input voltage: 500 V_{DC}
- Number of MPPT independent inputs:

PS100-PV / 1kW, PS100-PV / 3kW	1
PS100-PV / 5.5kW	2
- Maximum input current / maximum short circuit current:

PS100-PV / 1kW	9 A	/	13 A
PS100-PV / 3kW	13 A	/	20 A
PS100-PV / 5.5kW	2x13 A	/	2 x 20 A

Output (electrical grid side)

- Voltage: 1 x 230 V_{AC}
- Frequency: 50 Hz (-2,5 Hz .. +1,5 Hz)
- Nominal power:

PS100-PV / 1kW	1000 W
PS100-PV / 3kW	3000 W
PS100-PV / 5.5kW	5500 W
- Maximum output current:

PS100-PV / 1kW	4,5 A
PS100-PV / 3kW	13 A
PS100-PV / 5.5kW	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: *advanced tracking system of the maximum global PV power point guaranteeing finding the optimal working point even with panels partially shaded or serially connected*
- Type: **on-grid, off-grid** (with additional module)
- Digital outputs (relays): 3
- Digital inputs: 5
- Communication: Ethernet, Modbus RTU (RS-485)
- 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



Dimensions and weight

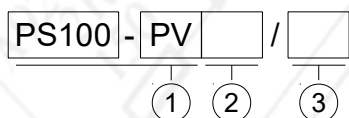
PS100-PV/1kW, PS100-PV/3kW

- Width x height x depth: 290 x 425 x 190 mm
- Weight: 14 kg

PS100-PV/5.5kW

- Width x height x depth: 340 x 455 x 190 mm
- Weight: 16 kg

Ordering info



- (1) **PS100-PV** – 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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