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DATASHEET · THREE-PHASE GRID-TIE INVERTER · FRONIUS VERTO

Fronius Verto 17.5 Grid-Tie Inverter

EcoSolaris code: ECO-FV17.5 · Fronius article no.: 4,210,422 · Manufacturer: Fronius International GmbH, Austria



The Fronius Verto 17.5 covers the power range required by machine workshops, guesthouses and farms with constant daytime consumption. With 17.5 kW on three phases and three MPPT trackers, it takes a PV array of up to 26.25 kWp and splits it across different roof sections.

Genuine Fronius product | Manufacturer warranty | Delivery across the UAE

EcoSolaris technical support

Technical specifications

Fronius product code	4,210,422
Nominal AC power	17.5 kW
Maximum apparent power	17.5 kVA
Maximum photovoltaic power	26.25 kWp
Number of MPPT trackers	3
MPP voltage range	245 – 870 V
Maximum input current	28 A / string (75 A total)
Permitted short-circuit current	50 A / string (100 A total)
Maximum output current / phase	38.5 A
Nominal output current / phase	26.5 / 25.4 / 23.0 / 21.1 A
Maximum efficiency	98.55%
European efficiency	98.29%
Night-time consumption	12 W
Noise level	56.5 dB(A)
Dimensions (H x W x D)	730 x 540 x 278 mm
Weight	35.2 kg
Maximum DC input voltage	1,000 V
Start-up voltage	150 V
Maximum current per string	28 A
Maximum power per MPPT	20 kWp
Nominal frequency	50 / 60 Hz
Grid voltage range	176 – 528 V
Power factor (cos φ)	0 – 1 ind./cap.
Total harmonic distortion	under 3%
Protection rating	IP 66
Protection class	1
Permitted ambient temperature	-40 °C … +60 °C
Relative humidity	0 – 100%
Topology	transformerless
DC disconnect	integrated
Arc fault detection AFCI (AFPE)	integrated
Cooling	regulated forced ventilation
Communication	WLAN, 2x Ethernet LAN, Modbus TCP/RTU SunSpec, Fronius Solar API
Monitoring	Fronius Solar.web (included)

Key features

- **Covers a 26.25 kWp array** — DC/AC ratio of up to 1.5, so you benefit from low-light hours.
- **Maximum efficiency 98.55%** — one of the best values in the 17 kW class.
- **Three MPPTs for three orientations** — east-west plus a south-facing section can be connected to the same inverter.
- **Night-time consumption of only 12 W** — the inverter does not eat into your savings when it is not producing.
- **Low noise, 56.5 dB(A)** — can be mounted next to work areas without complaints.
- **Integration with Wattpilot and Ohmpilot** — the surplus goes automatically to the electric vehicle or the water heater, through Fronius Solar.web.

Recommended applications

Industrial halls **Farms** **Commercial buildings** **Self-consumption** **On-grid systems**

Important: improper installation may damage the product, the electrical installation and the surroundings. Mounting, connection and commissioning must be carried out only by qualified, licensed personnel, in accordance with the manufacturer's installation manual and the requirements of the local grid operator. Unauthorised work voids the warranty.