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

Fronius Verto 25.0 Grid-Tie Inverter

EcoSolaris code: ECO-FV25.0 · Fronius article no.: 4,210,432 · Manufacturer: Fronius International GmbH, Austria



The Fronius Verto 25.0 delivers 25 kW three-phase to the loads of a production hall or a large farm. It stays in the compact 35 kg enclosure but accepts 37.5 kWp of panels on three independent MPPTs — useful when the roof has skylights, chimneys or different slopes.

Genuine Fronius product | Manufacturer warranty | Delivery across the UAE

EcoSolaris technical support

Technical specifications

Fronius product code	4,210,432
Nominal AC power	25 kW
Maximum apparent power	25 kVA
Maximum photovoltaic power	37.5 kWp
Number of MPPT trackers	3
MPP voltage range	350 – 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	36.1 / 32.8 / 30.1 A
Maximum efficiency	98.56%
European efficiency	98.35%
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

- **25 kW from 35.2 kg** — the most compact 25 kW inverter in the Fronius range, installable by a single crew.
- **37.5 kWp permitted PV power** — room for oversizing, even with 600 W panels.
- **Three independent MPPTs** — you split the roof into three zones and treat shading from ventilation installations separately.
- **European efficiency 98.35%** — several hundred kWh more annual production than 97% inverters.
- **String current 28 A** — compatible with modern high-current modules, without additional string boxes.
- **Monitoring included, no subscription** — Fronius Solar.web Premium is free for the duration of the warranty.

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.