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

Fronius Verto 15.0 Grid-Tie Inverter

EcoSolaris code: ECO-FV15.0 · Fronius article no.: 4,210,420 · Manufacturer: Fronius International GmbH, Austria



The Fronius Verto 15.0 is a three-phase grid-tie inverter for farms, small halls and office buildings that want to cover their daytime consumption with their own energy. The three MPPT inputs let you distribute the panels across roofs with different orientations without losing production.

Genuine Fronius product | Manufacturer warranty | Delivery across the UAE

EcoSolaris technical support

Technical specifications

Fronius product code	4,210,420
Nominal AC power	15 kW
Maximum apparent power	15 kVA
Maximum photovoltaic power	22.5 kWp
Number of MPPT trackers	3
MPP voltage range	210 – 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	22.7 / 21.7 / 19.7 / 18.1 A
Maximum efficiency	98.53%
European efficiency	98.19%
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

- **Good yield even on fragmented roofs** — the 3 MPPTs work independently, so a string shaded in the morning does not drag down the rest of the system.
- **European efficiency 98.19%** — conversion losses stay low throughout the day, not only at nominal power.
- **Quick installation, one person** — the 35.2 kg enclosure and the detachable connection cover shorten the installation time on the roof.
- **Withstands outdoor conditions without a canopy** — IP 66 and an operating range of -40 °C … +60 °C.
- **Oversizing up to 22.5 kWp** — you can fit 1.5 kWp of panels for every kW of inverter and gain production in winter and in overcast weather.
- **Integrated arc fault protection** — AFPE (AFCI) monitors the strings and shuts the system down before a loose contact can become a fire.

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.