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

Fronius Verto 30.0 Grid-Tie Inverter

EcoSolaris code: ECO-FV30.0 · Fronius article no.: 4,210,404 · Manufacturer: Fronius International GmbH, Austria



The Fronius Verto 30.0 delivers 29.99 kW three-phase and accepts up to 45 kWp of panels on four MPPTs. It is the usual configuration for logistics halls, small factories and livestock farms that consume continuously during working hours.

Genuine Fronius product | Manufacturer warranty | Delivery across the UAE | EcoSolaris technical support

Technical specifications

Fronius product code	4,210,404
Nominal AC power	29.99 kW
Maximum apparent power	29.99 kVA
Maximum photovoltaic power	45 kWp
Number of MPPT trackers	4
MPP voltage range	360 – 870 V
Maximum input current	28 A / string
Permitted short-circuit current	40 A / string (120 A total)
Maximum output current / phase	53.7 A
Nominal output current / phase	45.5 / 43.5 / 39.4 / 36.1 A
Maximum efficiency	98.02%
European efficiency	97.80%
Night-time consumption	16 W
Noise level	54.6 dB(A)
Dimensions (H x W x D)	865 x 574 x 279 mm
Weight	43.0 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

- **29.99 kW nominal AC power** — a good fit for installations that must stay just below a 30 kW connection limit.
- **45 kWp of panels on four MPPTs** — great flexibility when designing strings on long halls.
- **Maximum efficiency 98.02%** — stable production throughout the year.
- **MPP range 360 – 870 V** — long strings, low losses on the DC cable.
- **Standby consumption 16 W** — negligible parasitic energy for a commercial installation.
- **Open interfaces** — Modbus TCP/RTU SunSpec for integration into the building's SCADA or BMS.

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.