PHOTOVOLTAIC ENERGY L.L.C.
www.ecosolaris.ae · contact@ecosolaris.ae
Tel / WhatsApp: +971 58 511 8662 · Toll-free: 800 00813
Canal Heights 4001, P.O. Box 25314, Dubai, UAE

DATASHEET · THREE-PHASE HYBRID INVERTER WITH BACKUP · FRONIUS VERTO PLUS

Fronius Verto Plus 17.5 Hybrid Inverter

EcoSolaris code: ECO-FVP17.5 · Fronius article no.: 4,210,452 · Manufacturer: Fronius International GmbH, Austria



The Fronius Verto Plus 17.5 hybrid inverter delivers 17.5 kW three-phase, accepts up to 26.25 kWp of panels and couples a Fronius Reserva battery directly on the DC side. The result is a system that covers its evening consumption without buying energy from the grid.

Genuine Fronius product | Manufacturer warranty | Delivery across the UAE

EcoSolaris technical support

Technical specifications

Fronius product code	4,210,452
Nominal AC power	17.5 kW
Maximum apparent power	17.5 kVA
Maximum photovoltaic power	26.25 kWp
Usable DC power (PV + battery)	26.25 kW
Number of MPPT trackers	3
MPP voltage range	150 – 870 V
MPP range at nominal power	245 – 870 V
Maximum current per string	28 A
Maximum output current / phase	32.3 A
Nominal output current / phase	26.5 / 25.4 / 23.0 / 21.1 A
Battery input – voltage	150 – 700 V
Battery input – maximum current	50 A
Battery input – maximum power	26.25 kW
Backup power (Full Backup)	17.5 kW (30 kVA at AC Boost, 5–10 s)
Backup current / phase	32.3 A / phase (43.5 A at AC Boost)
Backup switchover time	under 35 s (under 20 ms in fast switchover mode)
Nominal frequency in backup mode	53 / 63 Hz
Maximum efficiency	98.06%
European efficiency	97.54%
Night-time consumption	16 W
Dimensions (H x W x D)	865 x 574 x 279 mm
Weight	40.1 kg
Maximum DC input voltage	1,000 V
Start-up voltage	150 V
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

- **17.5 kW in backup mode** — the same power as in grid operation, with a 30 kVA peak when starting inductive loads.
- **DC coupling with the battery** — energy from the panels enters the battery without AC conversion, so losses drop by a few percent.
- **26.25 kWp PV array** — DC/AC ratio of 1.5 for useful production in the cold months.
- **Maximum efficiency 98.06%** — efficient conversion at all power levels.
- **Automatic self-consumption optimisation** — the surplus goes to the water heater via Ohmpilot or to the electric vehicle via Wattpilot.
- **Energy cost assistant** — Fronius Energy Cost Assistant charges the battery when the tariff is low and discharges it at peak prices.

Recommended applications

Self-consumption · **Battery storage** · **Backup power** · **Production halls** · **Farms** · **Guesthouses**

> **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.