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 25.0 Hybrid Inverter

EcoSolaris code: ECO-FVP25.0 · Fronius article no.: 4,210,456 · Manufacturer: Fronius International GmbH, Austria



The Fronius Verto Plus 25.0 hybrid inverter delivers 25 kW to the grid and the same 25 kW in backup mode, with a 50 kVA peak for starting motors. It is the right configuration for small production halls that must ride through grid interruptions without stopping the line.

Genuine Fronius product | Manufacturer warranty | Delivery across the UAE

EcoSolaris technical support

Technical specifications

Fronius product code	4,210,456
Nominal AC power	25 kW
Maximum apparent power	25 kVA
Maximum photovoltaic power	37.5 kWp
Usable DC power (PV + battery)	32.5 kW
Number of MPPT trackers	3
MPP voltage range	150 – 870 V
MPP range at nominal power	350 – 870 V
Maximum current per string	28 A
Maximum output current / phase	53.7 A
Nominal output current / phase	37.9 / 36.2 / 32.8 / 30.1 A
Battery input – voltage	150 – 700 V
Battery input – maximum current	50 A
Battery input – maximum power	35 kW
Backup power (Full Backup)	25 kW (50 kVA at AC Boost, 5–10 s)
Backup current / phase	53.7 A / phase (72.5 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	98.16%
European efficiency	97.74%
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

- **50 kVA peak in backup** — you start compressors and pumps without a generator set.
- **53.7 A per phase at output** — high tolerance for weak grids and unbalanced loads.
- **37.5 kWp of panels on three MPPTs** — fully cover the daytime consumption of a small hall.
- **DC-coupled battery, up to 35 kW** — fast charging and discharging, with minimal losses.
- **Maximum efficiency 98.16%** — the best in the Verto Plus series.
- **40.1 kg IP 66 enclosure** — outdoor wall mounting, no canopy required.

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.