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 15.0 Hybrid Inverter

EcoSolaris code: ECO-FVP15.0 · Fronius article no.: 4,210,450 · Manufacturer: Fronius International GmbH, Austria



The Fronius Verto Plus 15.0 hybrid inverter combines a 15 kW three-phase inverter with a high-voltage battery input and a backup function on all three phases. Choose it when you want to use your own energy in the evening too, and keep the workshop or farm powered during a power outage.

Genuine Fronius product | Manufacturer warranty | Delivery across the UAE

EcoSolaris technical support

Technical specifications

Fronius product code	4,210,450
Nominal AC power	15 kW
Maximum apparent power	15 kVA
Maximum photovoltaic power	22.5 kWp
Usable DC power (PV + battery)	22.5 kW
Number of MPPT trackers	3
MPP voltage range	150 – 870 V
MPP range at nominal power	210 – 870 V
Maximum current per string	28 A
Maximum output current / phase	32.3 A
Nominal output current / phase	22.7 / 21.7 / 19.7 / 18.1 A
Battery input – voltage	150 – 700 V
Battery input – maximum current	50 A
Battery input – maximum power	22.5 kW
Backup power (Full Backup)	15 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	98.03%
European efficiency	97.35%
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

- **Three-phase backup power** — Full Backup supports 15 kW continuous and 30 kVA for 5–10 seconds, enough to start a motor or a pump.
- **Switchover in under 20 ms** — in fast switchover mode, computers and automation systems do not reset.
- **High-voltage battery input** — 150 – 700 V, up to 50 A and 22.5 kW — direct DC coupling with Fronius Reserva, with no double-conversion losses.
- **Three MPPTs for 22.5 kWp** — you split the roof across different orientations and extract the maximum from each zone.
- **Multi Flow Technology** — energy flows run in parallel: the panels supply the load, charge the battery and support backup simultaneously.
- **Outdoor installation, IP 66** — you do not need a technical room; it operates between -40 °C and +60 °C.

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.