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

Fronius Verto Plus 33.3 Hybrid Inverter

EcoSolaris code: ECO-FVP33.3 · Fronius article no.: 4,210,460 · Manufacturer: Fronius International GmbH, Austria



The Fronius Verto Plus 33.3 hybrid inverter is the top of the range: 33.3 kW on-grid, 50 kWp of permitted PV array and full three-phase backup power. Use it in small factories and farms where a power outage means lost production.

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

Technical specifications

Fronius product code	4,210,460
Nominal AC power	33.3 kW
Maximum apparent power	33.3 kVA
Maximum photovoltaic power	50 kWp
Usable DC power (PV + battery)	39 kW
Number of MPPT trackers	3
MPP voltage range	150 – 870 V
MPP range at nominal power	410 – 870 V
Maximum current per string	28 A
Maximum output current / phase	53.7 A
Nominal output current / phase	50.5 / 48.3 / 43.7 / 40.1 A
Battery input – voltage	150 – 700 V
Battery input – maximum current	50 A
Battery input – maximum power	35 kW
Backup power (Full Backup)	33.3 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	98.15%
European efficiency	97.95%
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

- **33.3 kW on-grid and in backup** — the highest three-phase backup power in the Fronius range for buildings.
- **50 kWp of panels on three MPPTs** — you reduce the number of inverters in an industrial installation.
- **High-voltage battery, 35 kW** — cover consumption peaks without drawing from the grid.
- **50 kVA peak for 5–10 seconds** — reliable starting for large motors, even in island mode.
- **Maximum efficiency 98.15%** — low losses across the entire power range.
- **Same enclosure as the rest of the Plus series** — common accessories, parts and service procedures.

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.