

Fronius TAURO 50-3-D (3MPPT, DC/AC OVP 1+2)

Product code: F.Fronius.3F.wifi.00500-Tauro-3-D



Manufacturer	FRONIUS
Inverter type	On-grid
Inverter phases	3
Max. AC power	50000
Output power	50000
МРРТ	3
WIFI	Nie
Ethernet	Yes
Compatible optimizers	Tigo
Warranty	7
CN code number	85044086
Quantity per pallet	4
Country of origin	Austria
Weight	111
Width	75
Height	110
Depth	35

Three-phase Fronius Tauro inverter with a power of 50 kW ensures unparalleled performance even in the most demanding operating conditions. Its advanced hardware concept not only minimizes Balance of System (BOS) costs but also opens up new possibilities for flexible system design. The Fronius Tauro 50-3-D inverter enables complex implementations both in centralized (P variant) and distributed (D variant) forms for advanced rooftop installations. Easy installation and rapid service guarantee the highest level of safety among available market solutions. *BOS costs (Balance of System) include all additional expenses, such as wiring, DC boxes, distribution boards, etc. The Fronius Tauro 50-3-D is designed to achieve excellent results.

Product variants

Index

Fronius TAURO 50-3-D (3MPPT, DC/AC OVP 1+2) F.Fronius.3F.wifi.00500-Tauro-3-D Product prices only visible after login. If you do not have an account, please

register.

Price

Product description

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Key features of the TAURO 50-3-D inverter:

Flexibility in installation design Maximum performance even up to 50°C Direct sunlight Cost optimization Active cooling with double walls Exchangeable power modules Made in Austria / EU Technical data of the TAURO ECO 50-3-D inverter

INPUT DATA

Number of MPP trackers: 3 Max. input current (Idc max inverter): 134 A Range of DC input voltages (Udc min - Udc max): 400 - 870 V Start-up voltage (Udc start): 200 V Max. PV generator power (Pdc max): 75 kWpeak Max. input current PV1 (Idc max, PV1): 36 A Max. input current PV2 (Idc max, PV2): 36 A Max. input current PV3 (Idc max, PV3): 72 A Max. short-circuit current PV1 (Isc max, PV1): 72 A Max. short-circuit current PV2 (Isc max, PV2): 72 A Max. short-circuit current PV3 (Isc max, PV3)*: 125 A Max. PV installation power PV1 (Pdc max, PV1): 25 kWpeak Max. PV installation power PV2 (Pdc max, PV2): 25 kWpeak Max. PV installation power PV3 (Pdc max, PV3): 50 kWpeak Max. inverter short-circuit current (Isc max, inverter): 240 A Max. string short-circuit current (Isc max, String): 20 A Max. string input current (Idc max, String): 14.5 A Number of DC connections PV1: 4 Number of DC connections PV2: 3 Number of DC connections PV3: 7 Max. string short-circuit current - version 30 A: 30 A Max. string input current - version 30 A: 22 A Number of DC connections PV1 - version 30 A: 4 Number of DC connections PV2 - version 30 A: 5 Number of DC connections PV3 - version 30 A: 5

OUTPUT DATA

AC nominal power (Pac, r): 50 kW Max. output power (Pac max): 50 kVA AC output current (Iac nom): 75.8A at 220Vac, 72.5A at 230Vac Grid connection (Uac, r): 3~ NPE 380/220, 3~ NPE 400/230 V AC voltage range (Umin - Umax): 180 - 270 V Frequency (fr): 50/60 Hz Frequency range (fmin - fmax): 45 - 65 Hz Non-linear distortion factor <3% @Pnom (230/400VAC 50Hz) Power factor (cos φac, r) 1 ind./cap.

GENERAL DATA Dimensions Length 1109 mm Dimensions / width: 755 mm Dimensions (depth): 346.2 mm Weight: 92 kg Weight with packaging: 111 kg Protection class: IP65 Protection class: 1 Surge category (DC/AC) 1): 2 / 3 Night energy consumption: 15 W Installation: Installation inside and outside buildings 4) Ambient temperature range: -40°C - +65°C (optional AC disconnect mounted inside the inverter: from -30 Permissible air humidity: 0-100 % Maximum height above sea level 2): 4000 m Inverter construction concept: Transformerless Cooling: Active Cooling Technology and Double-Wall System Noise emission: 68.4 dB(A)

PROTECTION

DC insulation measurement: Integrated Behavior in case of overload: Shift of operating point, power limiter 5) DC disconnect: Integrated Integrated RCMU: Integrated Surge protection: Type 1 + 2 integrated, type 2 optional 6) Fuse protection: Integrated, 15 A or 20 A

AC CONNECTION TECHNOLOGY Cable diameter: 35 - 240 mm² Conductor material: Al; Cu Connection terminals: Cable lug or V-type terminals Single-core option (single-core cable): Cable gland: 5 × M40 (10 - 28 mm) Multi-core option (multi-core cable): Cable gland: 1 × Multi Core Ø 16-61.4 mm + 1 × M32 (10 - 25 mm) AC chain connection option (single-core wire): Cable gland: 10 × M32 (10 - 25 mm) DC CONNECTION TECHNOLOGY Cable diameter: 4 - 6 mm² Conductor material: Cu Connection terminals: Direct DC connection, Stäubli Multi Contact MC4

Fronius TAURO 50-3-D products come with a standard two-year warranty, which can be extended free of charge to 5 years by simple registration on the Fronius Solar.web portal.

Registering the inverter on Solar.web offers many benefits, including:

- Warranty protection for up to 5 years for registered products.
- Free monitoring of the photovoltaic system's performance on the Fronius Solar.web portal.
- Regular information about new features, accessories, compatible batteries, and solutions for home automation.