

FRONIUS ECO 27.0-3-S

Product code: F.Fronius.3F.wifi.00270-S



Manufacturer	FRONIUS
Inverter type	On-grid
Inverter phases	3
Max. AC power	27000
Output power	27000
Circuit breaker value	63
MPPT	1
WIFI	Tak
Ethernet	No
Compatible optimizers	Tigo
Warranty	7
CN code number	85044086
Quantity per pallet	10
Country of origin	Austria
Width	51
Height	75
Depth	23

Effective inverter for use in extensive systems with high income potential. The three-phase Fronius Eco inverter, available in power variants of 25.0 and 27.0 kW, perfectly meets the needs of areas with large installations. Thanks to its lightweight construction and innovative SnapINverter mounting system, this transformerless device can be easily and quickly installed both indoors and outdoors. With a high degree of protection IP 66, this inverter sets new safety standards. The use of integrated chain fuse sockets on both poles and optional DC surge protection eliminates the need for junction boxes for chains.

Product variants

Index	Price
FRONIUS ECO 27.0-3-S F.Fronius.3F.wifi.00270-S	Product prices only visible after login. If you do not have an account, please register.

Product description

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The three-phase Fronius Eco inverter, available in power variants of 25.0 and 27.0 kW, perfectly meets the needs of areas with large installations. Thanks to its lightweight construction and innovative SnapINverter mounting system, this transformerless device can be easily and quickly installed both indoors and outdoors. With a high degree of IP 66 protection, this inverter sets new safety standards. The use of integrated chain fuse sockets on both poles and optional DC surge protection eliminates the need for chain junction boxes.

Fronius ECO 27.0-3-S is an efficient inverter for use in extensive systems with high income potential.

Fronius ECO 27.0-3-S technical data:

Input data:

Number of MPP trackers

Maximum input current (I_{dc max}): 47.7 A

Maximum module field short-circuit current*: 80 A

Range of DC input voltages (U_{dc min} - U_{dc max}): 580 - 1000 V

Start-up voltage (U_{dc start}): 650 V

Nominal input voltage (U_{dc,r}): 580 V

MPP voltage range (U_{mpp min} - U_{mpp max}): 580 - 850 V

Usable MPP voltage range: 580 - 850 V

Number of DC connections: 6

Maximum photovoltaic generator power (P_{dc max}): 37.8 kW_{peak}

Output data:

AC rated power (P_{ac,r}): 27 kW

Maximum output power (P_{ac max}): 27 kVA

AC output current (I_{ac nom}): 40.9 / 39.1 A

Grid connection (U_{ac,r}): 3~ NPE 400/230, 3~ NPE 380/220 V

AC voltage range (U_{min} - U_{max}): 150 - 275 V

Frequency (f_r): 50 / 60 Hz

Frequency range (f_{min} - f_{max}): 45 - 65 Hz

Non-linear distortion factor <3% @P_{nom} (230/400VAC 50Hz)

Power factor (cos φ_{ac,r}): 0 - 1 ind./cap,

General data:

Dimensions / width: 512 mm

Dimensions (height): 751 mm

Dimensions (depth): 227.5 mm

Weight: 35.5 kg

Weight with packaging: 39.5 kg

Protection class: IP 66

Protection class: 1

Surge category (DC/AC) 1): 2 / 3

Night energy consumption < 1 W

Inverter construction concept: Transformerless

Cooling: Regulated ventilation

Installation: Installation inside and outside buildings

Ambient temperature range: -25°C - +60°C

Permissible air humidity: 0 - 100 %

Maximum altitude above sea level 2): 2,000 m / 2500 m

DC connection technology: Screw terminals 6x DC+ and 6x DC- 2.5-16 mm²

AC connection technology: 5-pin screw terminals AC 2.5-16 mm²

Protection:

DC insulation measurement: Yes

Behavior in overload conditions: Shift of operating point, power limiter

DC switch: Yes

Integrated chain fuse socket: Yes

DC protection against pole reversal: Yes

Fronius products come with a two-year factory warranty, which can be extended free of charge to 5 years through simple registration on the Fronius Solar.web portal.

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

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