

/ Perfect Welding / Solar Energy / Perfect Charging



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FRONIUS ECO THE COMPACT PROJECT INVERTER FOR MAXIMUM YIELDS

Fronius Eco:

The compact project inverter for maximum yields

Power categories: 25.0 and 27.0 kVA



FRONIUS ECO OVERVIEW

- / High system voltage: up to 1000 V DC
- / High degree of efficiency: > 98.0%
- / No need for additional DC or combiner boxes:
Direct connection of up to six strings
- / Overvoltage protection on DC side (optional)
- / Integrated fuse holder: All-pole fuse protection of all six strings
- / Extremely compact design: Highest power density in its class
- / Premium indoor and outdoor inverter: For installation indoors and in unsheltered outdoor locations (degree of protection 66)



SIMPLE MAINTENANCE & SERVICE

- / Unique SnapInverter technology**
Innovative hinged system for easy installation & easy servicing
- / Proven Fronius Service Partner programme**
Easy maintenance and service by an electrician (power stage set replacement) or by the trained Fronius Service Partner (power stage replacement + PC board replacement)
→ **Lowest service costs on the market**
- / Very lightweight: < 40 kg**
- / Easy, improved display navigation**
- / Setup wizard**
Saves time and money (language, country setup, time/date)



FUTURE-PROOF THANKS TO SIMPLE ADD-ONS

/ Smart Grid Ready

/ Slots

/ Optional plug-in cards, such as the Fronius Sensor Card

/ Future requirements

/ Enhanced energy management

/ Arc detector

/ Etc.



DATA COMMUNICATION

- / USB, Fronius Solar Net interface and signalling contacts
- / Smart Grid Ready: all extended Advanced Grid Features (AGF) are integrated
- / Fronius Datamanager 2.0: integrated as standard (Fronius Eco is also available as a light version)
- / **Two measuring channels:** A comparison of the installed system inverters or two measuring channels per inverter can be implemented via Fronius Solar.web or third-party interfaces (Fronius Datamanager 2.0).

Example: 1 MWp PV system

- / 37 x Fronius Eco 27.0-3-S
- / 5 strings per inverter
- / Failure of one string in an inverter

20% lower output of the inverter → shown in Fronius Solar.web!



DIMENSIONS / INSTALLATION

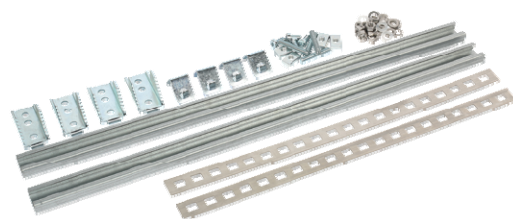
/ Weight

/ Approx. 38 kg

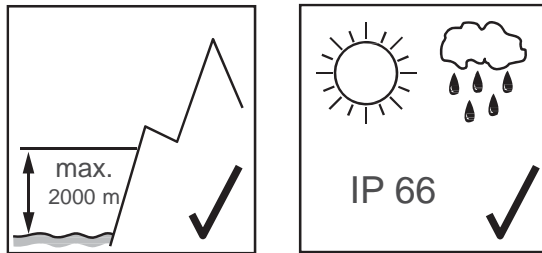
/ Installation

/ Pole mounting kit

/ Wall mounting



INSTALLATION



- / Maximum height above sea level 2000 m
- / Unprotected outdoor location (IP 66)



IP PROTECTION CLASS

/ IP 66

- / Highest protection class on the market
- / Completely dust tight and protected against strong jets of water from any angle



VENTILATION SYSTEM

/ Active cooling

- / Aluminium heat sink on the rear of the inverter
- / Two variable-speed fans
- / One fan cools the heat sink from the outside, the other one circulates air inside to prevent hot spots
- / Air inlet on side (right), outlet on top
→ installation side by side is possible



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FRONIUS ECO AT A GLANCE

STRAIGHTFORWARD SERVICING

- / Lowest service costs on the market
- / Easy, improved display navigation
- / Setup wizard

FUTURE-PROOF

- / Smart Grid Ready
- / Slots

COMPACT DESIGN

- / Very lightweight < 40 kg
- / Unique hinged system (SnapINverter mounting system)

HIGH DEGREE OF EFFICIENCY

- / High degree of efficiency
- / Maximum yields

IDEAL PROJECT INVERTER

- / For commercial systems and large-scale systems
- / Cost-effective
- / Low €/W price

TECHNICAL DATA¹⁾

TECHNICAL DATA	Eco 25.0-3-S	Eco 27.0-3-S
MPP voltage range	580 – 850 V	
Max. input voltage	1000 V	
Number of MPP trackers	1	
Number of DC connections	6	
AC nominal output	25,000 VA	27,000 VA
Maximum efficiency	98.2%	
European efficiency	97.9%	
Mains connection	3 ~ NPE 400 V / 230 V or 3 ~ NPE 380 V / 220 V	
Frequency	50 Hz / 60 Hz	
Degree of protection (electronics compartment)	IP 66	
Dimensions (height x width x depth)	725 x 510 x 225 mm	
Weight	Approx. 38 kg	

¹⁾ Preliminary data.

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SHIFTING THE LIMITS

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