

FRONIUS ECO

The compact project inverter for maximum yields











Smart Grid

Technology

Integrated data communication

Dynamic Peak Manager

Zero feed-in Ready

The three-phase Fronius Eco in power categories 25.0 and 27.0 kW perfectly meets all the requirements of large-scale installations. Thanks to its light weight and SnapINverter mounting system, this transformerless device can be installed quickly and easily either indoors or outdoors.

This inverter range is setting new standards with its IP 66 protection class. Furthermore, thanks to its integrated double fuse holders and optional overvoltage protection, string collection boxes are no longer necessary.

TECHNICAL DATA FRONIUS ECO

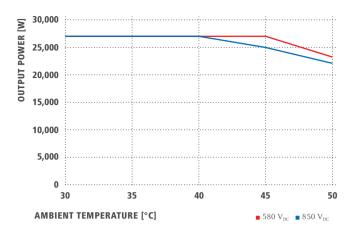
INPUT DATA	FRONIUS ECO 25.0-3-S	FRONIUS ECO 27.0-3-S
Number of MPP trackers	1	
Max. input current (I _{dc max})	44.2 A	47.7 A
Max. array short circuit current	71.6 A	
DC input voltage range (U _{dc min} - U _{dc max})	580 - 1,000 V	
Feed-in start voltage (U _{dc start})	650 V	
Usable MPP voltage range	580 - 850 V	
Number of DC connections	6	
Max. PV generator output (Pdc max)	37.8 kW _{neak}	

OUTPUT DATA	FRONIUS ECO 25.0-3-S	FRONIUS ECO 27.0-3-S
AC nominal output (Pac,r)	25,000 W	27,000 W
Max. output power	25,000 VA	27,000 VA
AC output current (I _{ac nom})	37.9 A / 36.2 A	40.9 A / 39.1 A
Grid connection (voltage range)	3-NPE 380 V / 220 V or 3-NPE 400 V / 230 V (+20 % / - 30 %)	
Frequency (frequency range)	50 Hz / 60 Hz (45 - 65 Hz)	
Total harmonic distortion	< 2.0 %	
Power factor (cos pac r)	0-lind/can	

GENERAL DATA	FRONIUS ECO 25.0-3-S	FRONIUS ECO 27.0-3-S
Dimensions (height x width x depth)	725 x 510 x 225 mm	
Weight	35.7 kg	
Degree of protection	IP 66	
Protection class	1	
Overvoltage category (DC / AC) 1)	2/3	
Night-time consumption	< 1 W	
Inverter concept	Transformerless	
Cooling	Regulated air cooling	
Installation	Indoor and outdoor installation	
Ambient temperature range	-25 - +60 °C	
Permitted humidity	0 to 100 %	
Max. altitude	2,000 m	
DC connection technology	6x DC+ and 6x DC- screw terminals 2.5 - 16 mm ²	
AC connection technology	5-pole AC screw terminals 2.5 - 16 mm²	
Certificates and compliance with standards	ÖVE / ÖNORM E 8001-4-712, DIN V VDE 0126-1-1/A1, VDE AR N 4105, IEC 62109-1/-2, IEC 62116, IEC 61727, AS 3100, AS 4777-2, AS 4777-3, CER 06-190, G59/3, UNE 206007-1, SI 4777, CEI 0-16, CEI 0-21	

 $^{^{1)}}$ According to IEC 62109-1. DIN rail for optional type 1 + 2 or type 2 surge protection device available. Further information regarding the availability of the inverters in your country can be found at www.fronius.com.

FRONIUS ECO 27.0.3-S TEMPERATURE DERATING



TECHNICAL DATA FRONIUS ECO

EFFICIENCY	FRONIUS ECO 25.0-3-S	FRONIUS ECO 27.0-3-S
Max. efficiency	98.2 %	98.3 %
European efficiency (ηEU)	98.0 %	98.0 %
MPP adaptation efficiency	> 99.9 %	

PROTECTION DEVICES	FRONIUS ECO 25.0-3-S	FRONIUS ECO 27.0-3-S
DC insulation measurement	Yes	
Overload behavior	Operating point shift, power limitation	
DC disconnector	Yes	
Integrated string fuse holders 1)	Yes	
Reverse polarity protection	Yes	

INTERFACES	FRONIUS ECO 25.0-3-S	FRONIUS ECO 27.0-3-S
WLAN / Ethernet LAN	Fronius Solar.web, Modbus TCP SunSpec, Fronius Solar API (JSON)	
6 inputs and 4 digital inputs/outputs	Interface to ripple control receiver	
USB (A socket) 2)	Datalogging, inverter update via USB flash drive	
2x RS422 (RJ45 socket) 2)	Fronius Solar Net	
Signalling output 2)	Energy management (floating relay output)	
Datalogger and Webserver	Included	
External input 2)	S0 meter connection / Evaluation of overvoltage protection	
RS485	Modbus RTU SunSpec or meter connection	

 $^{^{1)}}$ Optionally fitted with 6 fuses 15 A / 1,000 V on the plus side. $^{2)}$ Also available in the light version.

Further information and technical data can be found at www.fronius.com.

/ Perfect Welding / Solar Energy / Perfect Charging

THREE BUSINESS UNITS, ONE GOAL: TO SET THE STANDARD THROUGH TECHNOLOGICAL ADVANCEMENT.

What began in 1945 as a one-man operation now sets technological standards in the fields of welding technology, photovoltaics and battery charging. Today, the company has around 3,800 employees worldwide and 1,242 patents for product development show the innovative spirit within the company. Sustainable development means for us to implement environmentally relevant and social aspects equally with economic factors. Our goal has remained constant throughout: to be the innovation leader.

 $Further information about all \ Fronius \ products \ and \ our \ global \ sales \ partners \ and \ representatives \ can \ be \ found \ at \ www.fronius.com$

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