EU-OG/5KSF

EURONET ON-GRID STRING INVERTER – 5kW

Single-Phase Grid-Tied String Inverter | 2 MPPTs



RATED AC POWER **5000W**	MAX DC INPUT VOLTAGE **600V**
MPPT VOLTAGE RANGE **80V–560V**	MPPTS / STRING INPUTS **2 / 2**
MAX EFFICIENCY **98.3%**	PROTECTION CLASS **IP65**

OVERVIEW

The EURONET EU-OG/5KSF is a 5kW single-phase, transformerless on-grid string inverter for homes, villas and small rooftops. Two MPPTs with an 80V–560V tracking range and a DC/AC ratio of up to 1.5 let you connect a larger PV array, while up to 98.3% maximum efficiency (97.9% Euro) turns more of it into usable power. A built-in DC switch, anti-islanding and Type III DC/AC surge protection come in a compact 11kg, naturally cooled IP65 enclosure, with RS-485, plug-in Wi-Fi / 4G and a Bluetooth app for monitoring.

KEY FEATURES

Two MPPT Inputs
Two MPPTs, one string each, with 15A max. input current and 18A short-circuit current per MPPT

Wide MPPT Voltage Range
80V–560V MPPT range, 120V start voltage and 600V max. DC input voltage for flexible string design

DC/AC Ratio up to 1.5
Supports larger PV arrays compared with the 5000W AC rating, for more energy from the same inverter

Up to 98.3% Efficiency
98.3% maximum and 97.9% Euro efficiency, with THDi below 3% and power factor 0.8 lead – 0.8 lag

Built-In Protection
DC switch, anti-islanding, insulation detection, DC reverse polarity and Type III DC/AC surge

Compact IP65, Silent Cooling
380 × 380 × 150mm, 11kg, natural convection with no fan, operating from -25°C to +60°C ambient

TECHNICAL NOTE

5000W nominal / 5500VA max. AC output, 230V L-N, 50/60Hz ±5Hz, max. output current 24A. PV input 600V max., 380V nominal, 120V start, MPPT 80V–560V, 2 MPPTs × 1 string, 15A per MPPT. 98.3% max. / 97.9% Euro efficiency. IP65, natural convection, 11kg, 380 × 380 × 150mm. RS-485 / Wi-Fi / 4G, LCD + Bluetooth app. Regional power limits apply (see specifications).

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EU-OG/5KSF

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	EU-OG/5KSF
Type	Single-phase on-grid string inverter
Topology	Transformerless
INPUT (DC)	
Max. DC Voltage	600V
Nominal DC Voltage	380V
Start Voltage	120V
MPPT Voltage Range	80V–560V
Number of MPPTs	2
Strings Per MPPT	1
Max. Input Current / MPPT	15A
Max. Short-circuit Current / MPPT	18A
Max. DC/AC Ratio	1.5
OUTPUT (AC)	
Nominal AC Output Power	5000W
Max. AC Apparent Power	5500VA
Nominal AC Voltage	230V L-N
Grid Frequency	50/60Hz ±5Hz
Max. Output Current	24A
Power Factor (Cos φ)	0.8 leading – 0.8 lagging
THDi	<3%
EFFICIENCY	
Max. Efficiency	98.3%
Euro Efficiency	97.9%
REGIONAL OUTPUT LIMITS	
Nominal AC Output Power	4999W (Australia) 4600W (Germany, South Africa)
Max. AC Apparent Power	3680VA (UK) · 4999VA (Australia) 5000VA (Belgium) 4600VA (Germany, South Africa)
Max. Output Current	16A (England) · 21.7A (Australia) 20A (Germany, South Africa)

PARAMETER	SPECIFICATIONS
PROTECTION	
DC Switch	Yes
Anti-islanding Protection	Yes
Output Over-current Protection	Yes
DC Reverse Polarity Protection	Yes
Insulation Detection	Yes
AC Short-circuit Protection	Yes
DC / AC Surge Protection	DC Type III · AC Type III
COMMUNICATION & DISPLAY	
Communication	RS-485 / Wi-Fi / 4G
Wi-Fi / 4G	Plug-in module, optional
Display	LCD / Bluetooth + app
PHYSICAL & ENVIRONMENTAL	
Dimensions (W × H × D)	380 × 380 × 150 mm
Weight	11 kg
Cooling	Natural convection
IP Class	IP65
Operating Temperature	-25°C to +60°C
Max. Operating Altitude	4000m
Max. Operating Humidity	0–100%
AC Output Terminal	Quick connector
CERTIFICATION & STANDARDS	
Safety	EN/IEC 62109-1/2
Grid Connection	IEC 61727 · IEC 62116 · EN 50549-1
Grid Codes	AS 4777.2 · VDE-AR-N-4105 · VDE 0126-1-1 CEI 0-21 · G98/G99
Other Standards	C10/11 · UNE 217001/217002 · NRS 097 NB/T 32004-2018 · GB/T 19964-2012 INMETRO
EMC	IEC/EN 61000-6-2 · IEC/EN 61000-6-4
Environmental / Test	IEC 61683 · IEC 60068 · IEC 60529

**Specifications are subject to change without prior notice.*

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