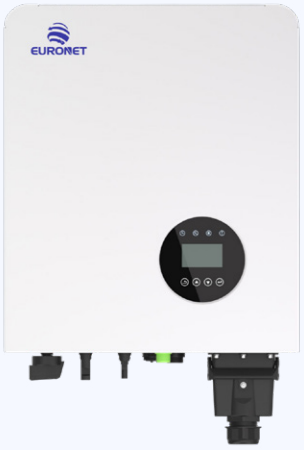
EU-OG/20KSF

EURONET ON-GRID STRING INVERTER – 20kW

Three-Phase Grid-Tied String Inverter | 2 MPPTs



RATED AC POWER	MAX DC INPUT VOLTAGE
20000W	1100V
MPPT VOLTAGE RANGE	**MPPTS / STRING INPUTS**
140V–1000V	2 / 4
MAX EFFICIENCY	**PROTECTION CLASS**
98.6%	IP66

OVERVIEW

The EURONET EU-OG/20KSF is a 20kW three-phase, transformerless on-grid string inverter for rooftops and businesses on a 400/230V supply. Two MPPTs with two strings each accept 30A per MPPT and track from 140V to 1000V, with up to 1100V DC input and a DC/AC ratio of up to 1.3 for larger arrays. It reaches 98.6% maximum efficiency (98.3% Euro) and includes a DC switch, anti-islanding, insulation detection and surge protection in a fan-cooled IP66 enclosure, with RS-485 and Wi-Fi / 4G monitoring.

KEY FEATURES

Four String Inputs
Two MPPTs with two strings each, 30A max. input and 40A max. short-circuit current on each MPPT

1100V Max. DC Input
140V–1000V MPPT range, 650V nominal and 250V start voltage for long, high-voltage PV strings

DC/AC Ratio up to 1.3
Supports a larger PV array than the 20000W AC rating for more yield from the same inverter

Up to 98.6% Efficiency
98.6% maximum and 98.3% 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 Type II / AC Type III surge (AC Type II opt.)

Rugged IP66 Enclosure
380 × 483 × 193mm, 20.7kg, fan cooled, rated for -25°C to +60°C ambient and altitudes up to 4000m

TECHNICAL NOTE

20000W nominal / 22000VA max. AC output, 400/230V 3P+N+PE, 50/60Hz ±5Hz, max. output current 31.9A. PV input 1100V max., 650V nominal, 250V start, MPPT 140V–1000V, 2 MPPTs × 2 strings, 30A per MPPT, DC/AC ratio up to 1.3. 98.6% max. / 98.3% Euro efficiency. IP66, fan cooling, 20.7kg, 380 × 483 × 193mm. RS-485 / Wi-Fi / 4G, LCD display.

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EU-OG/20KSF

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	EU-OG/20KSF
Type	Three-phase on-grid string inverter
Topology	Transformerless
INPUT (DC)	
Max. DC Voltage	1100V
Nominal DC Voltage	650V
Start Voltage	250V
MPPT Voltage Range	140V–1000V
Number of MPPTs	2
Strings Per MPPT	2
Max. Input Current / MPPT	30A
Max. Short-circuit Current / MPPT	40A
Max. DC/AC Ratio	1.3
OUTPUT (AC)	
Nominal AC Output Power	20000W
Max. AC Apparent Power	22000VA
Nominal AC Voltage	400/230V, 3P+N+PE
Grid Frequency	50/60Hz ±5Hz
Max. Output Current	31.9A
Power Factor (Cos φ)	0.8 leading – 0.8 lagging
THDi	<3%
EFFICIENCY	
Max. Efficiency	98.6%
Euro Efficiency	98.3%

PARAMETER	SPECIFICATIONS
PROTECTION	
DC Switch	Yes
Anti-islanding Protection	Yes
Output Over-current Protection	Yes
DC Reverse Polarity Protection	Yes
String Fault Detection	Optional
Insulation Detection	Yes
AC Short-circuit Protection	Yes
DC / AC Surge Protection	DC Type II · AC Type III (Type II optional)
COMMUNICATION & DISPLAY	
Communication	RS-485 / Wi-Fi / 4G
Wi-Fi / 4G	Plug-in module, optional
Display	LCD
PHYSICAL & ENVIRONMENTAL	
Dimensions (W × H × D)	380 × 483 × 193 mm
Weight	20.7 kg
Cooling	Fan cooling
IP Class	IP66
Operating Temperature	-25°C to +60°C
Max. Operating Altitude	4000m
Max. Operating Humidity	0–100% (no condensation)
AC Output Terminal	Connector
CERTIFICATION & STANDARDS	
Safety	EN/IEC 62109-1/2
Grid Connection	IEC 61727 · IEC 62116 · EN 50549-1
Grid Codes	VDE-AR-N-4105 · VDE 0126-1-1 · CEI 0-21 G99 · C10/11
Other Standards	NB/T 32004-2018 · GB/T 19964-2012
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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