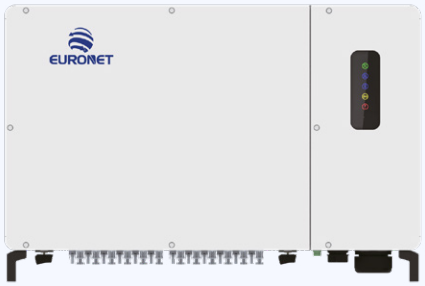
EURO-120KW

EURONET ON-GRID STRING INVERTER – 120kW

Three-Phase C&I String Inverter | 10 MPPTs



RATED AC POWER	MAX DC INPUT VOLTAGE
120kW @30°C	1100V
MPPT VOLTAGE RANGE	**MPPTS / STRING INPUTS**
200V–1000V	10 / 20
MAX EFFICIENCY	**PROTECTION CLASS**
98.7%	IP66

OVERVIEW

The EURONET EURO-120KW is a 120kW three-phase, transformerless string inverter for large commercial and industrial rooftops, carports and ground-mount PV plants. Ten MPPTs with two strings each give 20 string inputs, with up to 1100V DC input, a 200V–1000V MPPT range and a DC/AC ratio of up to 1.5. It reaches 98.7% maximum efficiency (98.3% Euro) and adds string fault detection, I-V curve scanning and AC leakage current protection in a fan-cooled IP66 enclosure, monitored over RS-485 or Bluetooth and app.

KEY FEATURES

10 MPPTs, 20 String Inputs
Ten MPPTs with two strings each, 30A max. input and 50A max. short-circuit current on each MPPT

1100V Max. DC Input
200V–1000V MPPT range, 550V–850V at full load, with 620V nominal and 250V min. start-up voltage

120kW Rated Output
120kW @30°C, 110kW @40°C and 100kW @50°C, with 121kVA max. apparent power and 174.6A max. current

Up to 98.7% Efficiency
98.7% maximum and 98.3% Euro efficiency, THDi below 3% and night power consumption below 10W

Smart Diagnostics
String fault detection, I-V curve scanning, AC leakage current protection and optional anti-PID

Rugged IP66 Enclosure
1055 × 700 × 336mm, 93kg, fan cooled, -25°C to +60°C ambient, 4000m max. (derating above 3000m)

TECHNICAL NOTE

120kW @30°C (110kW @40°C, 100kW @50°C), 121kVA / 121kW max. AC output, 320V–480V AC 3W+PE / 3W+N+PE, rated / max. output current 158.8A / 174.6A. PV input 1100V max., 620V nominal, 250V start, MPPT 200V–1000V (550V–850V full load), 10 MPPTs × 2 strings, 30A per MPPT. 98.7% max. / 98.3% Euro efficiency. IP66, fan cooling, 93kg, 1055 × 700 × 336mm. RS-485 / Bluetooth + app, LED display.

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EURO-120KW

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	EURO-120KW
Type	Three-phase on-grid string inverter
Topology	Transformerless
INPUT (DC)	
Max. DC Voltage	1100V
Nominal DC Voltage	620V
Min. / Start-up Voltage	250V
MPPT Voltage Range	200V–1000V
MPPT Range at Full Load	550V–850V
Number of MPPTs	10
Strings Per MPPT	2
Number of String Inputs	20
Max. Input Current / MPPT	30A
Max. Short-circuit Current / MPPT	50A
Max. DC/AC Ratio	1.5
OUTPUT (AC)	
Nominal AC Output Power	120kW @30°C · 110kW @40°C 100kW @50°C
Max. AC Apparent Power	121kVA
Max. AC Output Power	121kW
Nominal AC Voltage	320V–480V AC, 3W+PE / 3W+N+PE
Grid Frequency	45–55Hz / 55–65Hz
Rated Output Current	158.8A
Max. Output Current	174.6A
Power Factor (Cos φ)	0.8 leading – 0.8 lagging
THDi	<3%
EFFICIENCY	
Max. Efficiency	98.7%
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	Yes (standard)
Insulation Detection	Yes
AC Leakage Current Protection	Yes
I-V Curve Scanning	Yes
Anti-PID Function	Optional
DC / AC Surge Protection	DC Type II · AC Type III (Type II optional)
COMMUNICATION & DISPLAY	
Communication	RS-485 / Bluetooth + app
Wi-Fi / 4G	Optional module
Monitoring	Euronet app (Bluetooth) SCADA via RS-485 Modbus
Display	LED
PHYSICAL & ENVIRONMENTAL	
Dimensions (W × H × D)	1055 × 700 × 336 mm
Weight	93 kg
Cooling	Fan cooling
IP Class	IP66
Operating Temperature	-25°C to +60°C
Max. Operating Altitude	4000m (derating above 3000m)
Max. Operating Humidity	0–100%
Night Power Consumption	<10W
CERTIFICATION & STANDARDS	
Safety	EN/IEC 62109-1 · EN/IEC 62109-2
Grid Connection	IEC 61727 · IEC 62116 · EN 50549-1 EN 50549-2
Other Standards	NB/T 32004-2018 · GB/T 19964-2012
EMC	IEC/EN 61000-6-2 · 61000-6-4 · 61000-3-11 61000-3-12
Environmental / Test	IEC 61683 · IEC 60068 · IEC 60529

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

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