EU IN 4.2 KW

EURONET GOLD SERIES INVERTER – 4.2kW

Hybrid On/Off-Grid Inverter | 120A MPPT | Dual Output



RATED OUTPUT POWER **4200W / 4200VA**	MAX PV INPUT POWER **6200W**
BATTERY VOLTAGE **24VDC**	MPPT RANGE **60–450VDC**
MAX SOLAR CHARGING **120A**	MAX PV DC VOLTAGE **500VDC**

OVERVIEW

The EURONET Gold Series EU IN 4.2 KW is a 4200W / 4200VA single-phase hybrid on/off-grid inverter for homes running on a 24V battery bank. It accepts up to 6200W of PV through a 120A MPPT solar charger with a 60–450VDC range, and works in grid-tie, off-grid and hybrid modes. A dual output feeds a main load and a second load of 840W–2940W. It can run without a battery, activates lithium batteries automatically and delivers pure sine wave power at 94% battery efficiency, with Wi-Fi, GPRS and RS485 monitoring.

KEY FEATURES

120A MPPT Solar Charger
Takes up to 6200W of PV across a wide 60–450VDC MPPT voltage range, with 500VDC maximum DC voltage

Grid-Tie, Off-Grid, Hybrid
Three work modes; feeds the grid at 220/230/240VAC with power factor >0.99 and 98% max efficiency

Dual Load Output
Main load up to 4200W plus a second load range of 840W–2940W, cut off at 26VDC, back on at 27VDC

Runs With or Without Battery
Operates without a battery, and activates lithium batteries automatically on its 24V DC battery bus

Wi-Fi & GPRS Monitoring
RS232, RS485, Wi-Fi, GPRS and lithium battery ports, with an app for iOS and Android system monitoring

Anti-Dust Kit & Easy Reset
Built-in anti-dust kit for harsh sites, plus a one-key restoration to the factory settings

TECHNICAL NOTE

Model EU IN 4.2 KW, 1-phase, 24VDC. Rated 4200W / 4200VA; max PV input 6200W. PV 360 / 500VDC nominal / max, MPPT 60–450VDC, 1/18A. Grid output 220 / 230 / 240VAC, 195–253VAC, 18.2A, PF >0.99, 98% max efficiency. Second load 840W–2940W; cut-off / return 26VDC / 27VDC. AC input 90–280VAC or 170–280VAC, 24.7A. Charging 120A solar, 100A AC, 120A combined; 94% DC to AC. 420×350×110 mm, 8.0 kg.

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EU IN 4.2 KW

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	EU IN 4.2 KW
Series	Gold Series
Phase	1-phase
Work Modes	Grid-tie · off-grid · hybrid
Rated Output Power	4200W / 4200VA
Max PV Input Power	6200W
Output Power Factor	1.0
PV INPUT (DC)	
Nominal / Max DC Voltage	360 / 500VDC
Start-up / Initial Feeding	60 / 90VDC (grid-tie) · 90 / 120VDC (hybrid)
MPPT Voltage Range	60–450VDC
Max Input Current	1/18A
GRID OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240VAC
Output Voltage Range	195–253VAC
Nominal Output Current	18.2A
Power Factor	>0.99
Max Conversion Efficiency	98% (DC / AC)
TWO LOAD OUTPUT	
Full Load	4200W
Max Main Load	4200W
Second Load Range	840W–2940W
Load Cut-off / Return Voltage	26VDC / 27VDC

PARAMETER	SPECIFICATIONS
AC INPUT	
AC Start-up / Auto Restart	120–140VAC / 180VAC
Acceptable Input Range	90–280VAC or 170–280VAC
Frequency Range	50 ±1Hz / 60 ±1Hz
Max AC Input Current	24.7A
BATTERY MODE OUTPUT (AC)	
Nominal Output Voltage	220 / 230 / 240VAC
Waveform	Pure sine wave
Efficiency (DC to AC)	94%
BATTERY & CHARGER	
Nominal DC Voltage	24VDC
Max Solar Charging Current	120A
Max AC Charging Current	100A
Max Solar + AC Charging Current	120A
Max Charging Current, Hybrid	100A
Lithium Battery	Automatic activation
Battery-free Operation	Supported
PHYSICAL	
Dimensions (H×W×D)	420 × 350 × 110 mm
Carton (H×W×D)	500 × 415 × 180 mm
Net Weight	8.0 kg
Gross Weight	9.0 kg
Dust Protection	Built-in anti-dust kit
IP Rating	Not available
INTERFACE & ENVIRONMENT	
Communication Port	RS232 / RS485 / Wi-Fi / GPRS / lithium battery
Humidity	5% to 95% RH (non-condensing)
Operating Temperature	-10°C to 50°C
Compliance Safety	CE

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

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