E-S4.2KW24V

EURONET GEN-5 S SERIES INVERTER – 4.2kW

Dual-Output Solar Inverter | On/Off-Grid Operation



RATED POWER **4200VA/4200W**	BATTERY VOLTAGE **24V DC**
MAX PV INPUT POWER **6200W**	MAX SOLAR CHARGE **120A**
MAX PV VOLTAGE **500V DC**	AC OUTPUTS **2 independent**

OVERVIEW

The EURONET Gen-5 S 4.2K (E-S4.2KW24V) is a dual-output solar inverter for medium-to-large homes that need high PV input. It delivers 4200VA / 4200W on a 24V DC battery, accepts up to 6200W of solar across a 60V–450V DC PV range (500V DC max.) and charges at up to 120A from solar or 100A from the AC charger. Two independent AC outputs separate critical and general loads, battery-free mode lets PV power loads directly, and full lithium BMS communication with WiFi and GPRS monitoring keeps the system easy to manage. Conversion efficiency reaches 98%.

KEY FEATURES

Dual AC Load Output
Two independent AC outputs control critical and general loads separately, configurable per site

Battery-Free Operation Mode
PV powers loads directly when the battery is absent or depleted, with no interruption to the supply

High PV Input Power
Accepts up to 6200W of solar on a 60–450V DC PV range, with 500V DC max. PV voltage for flexible string design

120A Solar Charging
Up to 120A solar charging plus up to 100A from the AC charger (default 30A) on a 24V DC battery bank

Configurable Load Voltages
User-defined main load cut-off voltage (22V DC) and return (26V DC) voltages for battery management

Lithium BMS & Remote Monitoring
Full lithium BMS communication plus WiFi and GPRS monitoring, on/off-grid operation and 98% efficiency

TECHNICAL NOTE

S 4.2K: 4200VA / 4200W on a 24V DC battery, max. DC input current 175A. PV: 60V–450V DC range, 500V DC max., 27A max. current, 6200W max. input power, 240V DC nominal operating voltage, 120A max. solar charging. AC charger 230V AC, 26.2A, 27V DC output, max. 100A (default 30A). AC output 230V AC, 18.2A; second load 840W–2940W. IP21, -10°C to +50°C, CE / RoHS.

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E-S4.2KW24V

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-S4.2KW24V
Series	Gen-5 S Series (S 4.2K)
Product Type	Dual-output solar inverter
Rated Power	4200VA / 4200W
Operating Modes	On/off-grid · battery-free PV mode
Max. Conversion Efficiency	98%
BATTERY	
Battery Voltage	24V DC
DC Input Current (Max.)	175A
Battery Integration	Full lithium BMS communication
PV INPUT / SOLAR CHARGER	
PV Voltage Range	60V–450V DC
Max. PV Voltage	500V DC
Nom. PV Operating Voltage	240V DC
Max. PV Current	27A
Max. PV Input Power	6200W
Max. Solar Charging Current	120A

PARAMETER	SPECIFICATIONS
AC INPUT / AC CHARGER	
AC Charger Input	230V AC, 26.2A
AC Charger DC Output	27V DC
Max. AC Charging Current	100A (default 30A)
AC OUTPUT	
AC Output	230V AC, 18.2A
Full Load	4200W
AC Outputs	2 independent (main and second load)
Second Load Range	840W–2940W
Main Load Cut-off Voltage	22V DC (user-defined)
Main Load Return Voltage	26V DC (user-defined)
COMMUNICATION	
Monitoring	WiFi and GPRS
Battery Communication	Lithium BMS
PHYSICAL & ENVIRONMENTAL	
Ingress Protection	IP21
Operating Temperature	-10°C to +50°C
Colour	Silver and black
Dimensions (W × H × D)	Not available
Net Weight	Not available
CERTIFICATION	
Certification	CE / RoHS
Test Conditions	Specifications at 25°C ambient unless stated

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

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