E-RS4.2KW24V

EURONET GEN-5 RS SERIES INVERTER – 4.2kW

Smart Wall-Mount Hybrid Inverter | Movable LCD



RATED POWER **4200VA/4200W**	BATTERY VOLTAGE **24V DC**
MAX PV INPUT POWER **6200W**	MAX SOLAR CHARGE **120A**
MAX PV VOLTAGE **500V DC**	LCD RANGE **Up to 100 m**

OVERVIEW

The EURONET Gen-5 RS 4.2K (E-RS4.2KW24V) is a smart wall-mount hybrid inverter for premium homes, combining a pure sine wave inverter, MPPT solar charger and AC charger in one unit. It delivers 4200VA / 4200W on a 24V DC battery, accepts up to 6200W of solar across a 60V–450V DC range (500V DC max.) and charges at up to 120A from solar or 100A from the AC charger. Its movable LCD can be placed up to 100 m away, BMS and WiFi ports work at the same time, and battery-free operation lets PV power loads directly to reduce system cost.

KEY FEATURES

Movable LCD up to 100 m
The LCD display can be placed up to 100 m from the inverter, so it suits almost any building layout

Dual Communication Ports
Independent BMS and WiFi ports operate at the same time, with no compromise on battery or app monitoring

Battery-Free Operation
The PV system powers loads directly without a battery present, reducing the total system cost

Lithium Battery Auto-Activation
Built-in protocol wakes protected lithium packs automatically, with no manual intervention required

WiFi and GPRS Monitoring
iOS and Android app shows real-time energy data and sends remote alerts to installers and owners

Dual AC Load Output
Main and second load outputs (840W–2940W second load) with user-defined cut-off voltages via LCD

TECHNICAL NOTE

RS 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, full-load MPPT 240V–450V DC, 120A max. solar charging. AC charger 230V AC, 26.2A, 27V DC output, 100A max. (default 30A). Output 230V AC, 50/60Hz pure sine wave, 18.2A. IP21, -10°C to +50°C, CE / RoHS.

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E-RS4.2KW24V

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-RS4.2KW24V
Series	Gen-5 RS Series (RS 4.2K)
Product Type	Smart wall-mount hybrid inverter
Rated Power	4200VA / 4200W
Mounting	Wall-mount
Max. Conversion Efficiency	Not available
BATTERY	
Battery Voltage	24V DC
DC Input Current (Max.)	175A
Lithium Battery	Auto-activation of protected packs
Battery-free Operation	PV powers loads directly
PV INPUT / SOLAR CHARGER	
PV Voltage Range	60V–450V DC
Max. PV Voltage	500V DC
Nom. PV Operating Voltage	240V DC
Full-load MPPT Range	240V–450V 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, 1Ph
AC Charger DC Output	27V DC
Max. AC Charging Current	100A (default 30A)
AC OUTPUT	
Output	230V AC, 50/60Hz, pure sine wave
Max. Main Load	4200W
Full Load	4200W
AC Output Current	18.2A
Load Outputs	Dual (main and second load)
Second Load Range	840W–2940W
Main Load Cut-off / Return	22V / 26V DC (user-defined)
DISPLAY & COMMUNICATION	
Display	Movable LCD, extensible up to 100 m
Communication	Dual ports – BMS and WiFi concurrently
Monitoring	WiFi and GPRS · iOS and Android app
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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