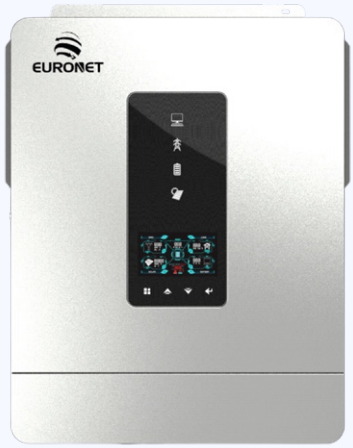
E-S10.2KW48V

EURONET GEN-5 S SERIES INVERTER – 10.2kW

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



RATED POWER	BATTERY VOLTAGE
10200W	48V DC
MAX PV INPUT POWER	MAX SOLAR CHARGE
10.8kW	160A
MAX PV VOLTAGE	AC OUTPUTS
500V DC	2 independent

OVERVIEW

The EURONET Gen-5 S 10.2K (E-S10.2KW48V) is the flagship of the S Series, built for larger homes and light commercial sites. It delivers 10200W at full load on a 48V DC battery and has two independent MPPT inputs of 5400W + 5400W (10.8kW in total) across a 90V–450V DC range, with up to 160A solar charging and 98% peak efficiency. 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.

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

Dual Independent MPPT Inputs
Two MPPT channels of 5400W + 5400W (18A + 18A), ideal for split roof arrays with different orientations

160A Solar Charging
Up to 160A solar charging and 140A AC charging for high-capacity residential and light commercial banks

Configurable Load Voltages
User-defined main load cut-off voltage (52V DC) and return (54V 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 10.2K: 10200W (full load) on a 48V DC battery, max. DC input current 212.5A. PV: 90V–450V DC range, 500V DC max., 18A + 18A max. current, 5400W + 5400W max. input power, 360V DC nominal operating voltage, 160A max. solar charging. AC charger 230V AC, 60A, 48V DC output, max. 140A. AC output 230V AC, 44.3A; second load 2040W–7140W. IP21, -10°C to +50°C, CE / RoHS.

© 2026 Euronet Technologies LLC. All rights reserved. | ISO 9001:2015 Certified

E-S10.2KW48V

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-S10.2KW48V
Series	Gen-5 S Series (S 10.2K)
Product Type	Dual-output solar inverter
Rated Power	10200W (full load)
Operating Modes	On/off-grid · battery-free PV mode
Max. Conversion Efficiency	98%
BATTERY	
Battery Voltage	48V DC
DC Input Current (Max.)	212.5A
Battery Integration	Full lithium BMS communication
PV INPUT / SOLAR CHARGER	
MPPT Inputs	Dual independent MPPT
PV Voltage Range	90V–450V DC
Max. PV Voltage	500V DC
Nom. PV Operating Voltage	360V DC
Max. PV Current	18A + 18A
Max. PV Input Power	5400W + 5400W (10.8kW total)
Max. Solar Charging Current	160A

PARAMETER	SPECIFICATIONS
AC INPUT / AC CHARGER	
AC Charger Input	230V AC, 60A
AC Charger DC Output	48V DC
Max. AC Charging Current	140A
AC OUTPUT	
AC Output	230V AC, 44.3A
Full Load	10200W
AC Outputs	2 independent (main and second load)
Second Load Range	2040W–7140W
Main Load Cut-off Voltage	52V DC (user-defined)
Main Load Return Voltage	54V 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.*

© 2026 Euronet Technologies LLC. All rights reserved. | ISO 9001:2015 Certified