E-A1KW12V

EURONET GEN-5 A SERIES INVERTER – 1kW

Off-Grid Inverter | MPPT Solar Charger



RATED POWER **1000VA/1000W**	BATTERY VOLTAGE **12V DC**
RATED PV POWER **600W**	MPPT RANGE **20–150V DC**
MAX SOLAR CURRENT **40A**	AC OUTPUT **230V AC**

OVERVIEW

The EURONET Gen-5 A 1K (E-A1KW12V) combines a pure sine wave inverter, MPPT solar charge controller and AC charger in one compact unit for homes and small off-grid systems. It delivers 1000VA / 1000W of stable 230V AC output at 50/60Hz from a 12V DC battery bank, harvests up to 600W of solar power across a 20V–150V DC MPPT range and charges at up to 40A from solar or 40A from the AC charger. It works with lithium and lead-acid batteries, shows real-time status on an LCD display and is CE / RoHS certified.

KEY FEATURES

Pure Sine Wave Output
Stable 230V AC, 50/60Hz output with ±5% regulation, suitable for home appliances and sensitive electronics

Built-in MPPT Solar Charger
Integrated MPPT charger with a 20V–150V DC range, up to 600W PV and 40A maximum solar charging current

AC Charger Built In
Charges the 12V battery bank from the 230V AC supply at up to 40A when solar is not enough

Lithium & Lead-Acid Ready
Compatible with lithium and lead-acid batteries for versatile energy storage on a 12V DC battery bank

Smart Battery Charging
Optimised charging management from solar and AC helps improve battery performance and extend its life

LCD Status Display
User-friendly LCD interface gives real-time system monitoring and operational status at a glance

TECHNICAL NOTE

A 1K: 1000VA / 1000W rated power on a 12V DC battery. Pure sine wave output 230V AC, 50/60Hz (±5%), output current 4.3A. MPPT solar charger: 600W rated PV power, 150V DC max. Voc, 20V–150V DC MPPT range, 40A max. solar current. AC charger: 230V AC, 5.88A input, 13.5V DC output, 40A max. charging current. IP21, -10°C to +50°C, CE / RoHS.

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E-A1KW12V

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-A1KW12V
Series	Gen-5 A Series (A 1K)
Product Type	Off-grid inverter · MPPT solar charger AC charger
Rated Power	1000VA / 1000W
Application	Residential & small off-grid systems
BATTERY	
Battery Voltage	12V DC
Battery Type	Lithium and lead-acid
Charging Management	Smart, optimised battery charging
PV INPUT / SOLAR CHARGER	
Charger Type	MPPT solar charge controller
Rated PV Power	600W
Max. Solar Voltage (Voc)	150V DC
MPPT Voltage Range	20V–150V DC
Max. Solar Current	40A
AC INPUT / AC CHARGER	
AC Charger Input	230V AC, 5.88A
AC Charger DC Output	13.5V DC
Max. AC Charging Current	40A
Charging Sources	MPPT solar charger + AC charger

PARAMETER	SPECIFICATIONS
AC OUTPUT	
Output Voltage	230V AC
Output Frequency	50/60Hz
Voltage Regulation	230V AC ±5%
Output Waveform	Pure sine wave
Output Current	4.3A
Max. Conversion Efficiency	Not available
PROTECTION & DISPLAY	
Protection	Comprehensive built-in protection
Display	LCD status display · real-time monitoring
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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