E-ONYX100012V

EURONET ONYX SOLAR INVERTER – 1.0kW

Off-Grid Solar Inverter | MPPT 40A Solar Charger



RATED POWER	BATTERY VOLTAGE
1000VA / 1000W	12V DC
SURGE POWER	**MAX PV ARRAY POWER**
2000VA	600W
MPPT SOLAR CHARGER	**MAX AC CHARGE CURRENT**
40A	40A

OVERVIEW

The EURONET E-ONYX100012V is a 1.0kW (1000VA / 1000W) pure sine wave off-grid solar inverter from the Onyx Series, built for 12V battery banks. Its built-in MPPT solar charger delivers up to 40A from as much as 600W of panels (MPPT range 20V–150V DC), and the AC charger adds up to 40A from the grid or a generator. Programmable PV, battery or grid priority sends solar energy to the load first, and the inverter works with lithium batteries through BMS communication or with lead-acid batteries. A built-in anti-dust kit protects the unit, with RS232 / RS485 standard and Wi-Fi as an option.

KEY FEATURES

Pure Sine Wave Output
Rated 1000W with 2000VA surge power, regulated to 230V AC ±5% when running from the battery

Built-in MPPT Charger
Up to 40A solar charge current from as much as 600W of PV, with a 20V–150V DC MPPT voltage range

Programmable Supply Priority
Programmable PV, battery or grid supply priority, with solar energy sent directly to the connected load first

Lithium & Lead-Acid Ready
Works with lithium batteries through BMS communication or lead-acid, with a smart charge design for long life

Wide AC Input Range
230V AC input accepts 170V–280V AC (PC mode) or 90V–280V AC (appliance mode), 50/60Hz auto-sensing

Anti-Dust Kit & Monitoring
Built-in anti-dust kit; RS232 / RS485 as standard with Wi-Fi as an option for app and web monitoring

TECHNICAL NOTE

E-ONYX100012V off-grid; 1000VA / 1000W; 12V DC battery. Surge 2000VA. MPPT 20V–150V DC, max PV 600W, Voc 150V DC; max solar charge 40A, AC charge 40A, solar + AC 80A. Float 13.5V / overcharge protection 16V. AC input 230V AC (170V–280V PC / 90V–280V appliances), 50/60Hz. Output 230V AC ±5%, transfer 10ms / 20ms, peak efficiency 98% PV / 94% battery. 290×240×91mm, 3.5 kg net / 4.0 kg gross. IP21, -10°C to 50°C, 5–95% RH.

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E-ONYX100012V

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	E-ONYX100012V
Series	Onyx Series
Type	Off-grid solar inverter
Rated Power	1000VA / 1000W
Surge Power	2000VA
Output Waveform	Pure sine wave
Supply Priority	Programmable: PV, battery or grid
Solar Use	Solar energy sent to the load first
BATTERY	
Battery Voltage	12V DC
Battery Type	Lithium (BMS communication) or lead-acid
Float Charge Voltage	13.5V
Overcharge Protection	16V
Max AC Charge Current	40A
Max Solar + AC Charge Current	80A
Charging	Smart charge design for longer battery life
PV INPUT / SOLAR CHARGER	
Charger Type	MPPT, built in
Max PV Array Power	600W
MPPT Voltage Range	20V–150V DC
Max PV Open-circuit Voltage	150V DC
Max Solar Charge Current	40A

PARAMETER	SPECIFICATIONS
AC INPUT	
Nominal Input Voltage	230V AC
Input Range (PC Mode)	170V–280V AC
Input Range (Appliance Mode)	90V–280V AC
Frequency	50/60Hz (auto-sensing)
AC Sources	Grid or generator
AC OUTPUT	
Output Voltage (Battery)	230V AC ±5%
Waveform	Pure sine wave
Transfer Time	10ms (PC) · 20ms (home appliances)
Peak Efficiency, PV to Inverter	98%
Peak Efficiency, Battery to Inverter	94%
COMMUNICATION	
Interfaces	RS232 / RS485 (standard)
Wi-Fi	Optional
Battery Communication	Lithium BMS
Monitoring	Cloud app / web (via Wi-Fi)
PHYSICAL & ENVIRONMENTAL	
Dimensions	290 × 240 × 91 mm
Carton Dimensions	340 × 295 × 145 mm
Net Weight	3.5 kg
Gross Weight	4.0 kg
Dust Protection	Built-in anti-dust kit
Operating Temperature	-10°C to 50°C
Humidity	5–95% RH (non-condensing)
IP Rating	IP21
CERTIFICATION	
Compliance	CE

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

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