500W

EURONET MODIFIED INVERTER (BLUE) – 500W

Modified Sine Wave Inverter | 12V DC to 220V AC



RATED OUTPUT POWER **500W**	PEAK (SURGE) POWER **1000W**
INPUT VOLTAGE **12V DC**	OUTPUT **220V AC ±10%**
OUTPUT FREQUENCY **50/60Hz (auto)**	PEAK EFFICIENCY **90–93%**

OVERVIEW

The EURONET Modified Inverter (Blue) 500W converts 12V DC battery power into 220V AC ±10% for portable power, small off-grid systems, vehicles and electric tools. It delivers 500W continuous and 1000W peak (surge) output, so motor and compressor start-up loads are covered, with automatic 50/60Hz conversion and 90–93% peak efficiency. An LCD shows battery voltage, capacity, output voltage, frequency and load level, and a 5V USB output is built in. A temperature-controlled fan and a full protection suite keep it running safely with lead-acid or lithium batteries.

KEY FEATURES

Surge-Ready Output
500W continuous with 1000W peak (surge) power for motor and compressor start-up loads from 12V DC

Automatic 50/60Hz
Automatic frequency conversion gives a stable 220V AC at 50Hz or 60Hz for broad appliance compatibility

LCD Display & 5V USB
LCD shows battery voltage, capacity, output voltage, frequency and load level, plus a 5V USB port

Full Protection Suite
Overload, short circuit, over-temperature, battery over/under-voltage and fuse reverse-polarity guard

Smart Thermal Cooling
Intelligent temperature-controlled fan runs only when needed, reducing noise and extending component life

Lead-Acid or Lithium
Works with lead-acid and lithium batteries, with a low-battery alarm and automatic low-voltage cut-off

TECHNICAL NOTE

Rated 500W, surge 1000W. Input 12V DC (9.6–15.5V); 220V AC ±10%, 50/60Hz modified sine wave output; efficiency 90–93%. Conversion: 12V 100% max. Battery over/under-voltage, over-temperature, short-circuit and overload protection; fuse reverse polarity. -10°C to 50°C (derate 10% per °C above 40°C), 5–95% RH. Packaging 22 × 14.5 × 6 cm.

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PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	500W
Series	Modified Inverter (Blue)
Rated Output Power	500W
Peak (Surge) Power	1000W
Waveform	Modified sine wave
Peak Efficiency	90–93%
Applications	Off-grid solar/wind, vehicle, marine, portable
DC INPUT	
Input Voltage	12V DC
Input Range	9.6–15.5V
Conversion Capability	12V battery only, 100% max
AC OUTPUT	
Output Voltage	220V AC ±10%
Output Frequency	50/60Hz, automatic conversion
Waveform	Modified sine wave
USB Output	5V
BATTERY	
Battery Type	Lead-acid or lithium
Low-battery Alarm	Yes
Low-voltage Cut-off	Automatic

PARAMETER	SPECIFICATIONS
PROTECTION	
Battery	Over-voltage and under-voltage
Output	Short circuit and overload
Thermal	Over-temperature
Reverse Polarity	Fuse-protected
Fault Recovery	Auto restart when the fault clears
DISPLAY & COOLING	
Display	LCD
LCD Readings	Battery V, capacity, output V, frequency, load
Cooling	Intelligent temperature-controlled fan
PHYSICAL & ENVIRONMENTAL	
Unit Size	Not available
Packaging Size	22 × 14.5 × 6 cm
Weight	Not available
Operating Temperature	-10°C to 50°C
Derating	10% per °C above 40°C
Humidity	5–95% RH (non-condensing)
Storage Temperature	-20°C to 55°C
Altitude	Up to 1000m (derate above, GB/T 3859.2)
IP Rating	Not available
CERTIFICATION	
Product	CB, CE, IEC, SASO/SABER
Quality	ISO 9001:2015

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

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