900VA/12V

EURONET LF SINE WAVE INVERTER – 900VA/12V

Pure Sine Wave Inverter / UPS | Toroidal Transformer



RATED CAPACITY	RATED OUTPUT
900VA	640W
BATTERY VOLTAGE	**PEAK LOAD RATIO**
12V DC	3:1 (max)
UPS TRANSFER TIME	**MAX AC CHARGE CURRENT**
≤10ms	16A

OVERVIEW

The EURONET LF Sine Wave Inverter 900VA/12V is a low-frequency inverter/UPS built around a toroidal transformer, delivering 900VA (640W) of pure sine wave power from a 12V battery bank. Its no-load loss is about half that of a high-frequency unit of the same power, and the 3:1 peak load ratio handles motors, pumps and sensitive loads. On mains it charges the battery at up to 16A and switches over in ≤10ms in UPS mode. An optional PWM solar controller accepts up to 400W of panels, and it works with external lead-acid, SMF or lithium batteries.

KEY FEATURES

Low-Frequency Toroidal Design
Toroidal-transformer design with no-load loss about half that of a same-power high-frequency inverter

Pure Sine Wave, 3:1 Peak Load
220V AC ±10% pure sine wave output, 50 or 60Hz ±1%, with a 3:1 peak load ratio for motors and pumps

Fast UPS Changeover
Switches to battery in ≤10ms in UPS mode and ≤20ms in inverter mode to keep connected loads running

Optional PWM Solar Controller
Optional PWM charger takes up to 400W of PV at 15V–50V DC input, with up to 30A of solar charging

Flexible Battery Choice
Works with external lead-acid, SMF or lithium batteries, charging at 13.7V DC with up to 16A

Full Protection & Alarms
Overload, short circuit, high/low voltage and battery reverse (fuse) protection with fault-coded alarms

TECHNICAL NOTE

LF Sine Wave 900VA/12V: low-frequency toroidal-transformer inverter/UPS, 900VA / 640W, 12V DC battery, charging 13.7V, max AC charge 16A. Input 220V AC (110V optional), 154V–264V AC normal / 185V–264V AC UPS, 50/60Hz ±5%. Output 220V AC ±10%, 50 or 60Hz ±1%, pure sine wave; transfer ≤10ms UPS / ≤20ms inverter; 3:1 peak load. Optional PWM: 400W, 15V–50V DC, 30A. Standby 8W, <45dB, -10°C to 50°C. Made in India.

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

900VA/12V

PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	900VA/12V
Series	LF Sine Wave Inverters
Rated Capacity	900VA
Rated Output	640W
Topology	Low frequency, toroidal transformer
Output Waveform	Pure sine wave
Peak Load Ratio	3:1 (max)
Standby Consumption	8W
Noise	<45dB
Settings	Parameters adaptable to user needs
AC INPUT	
Input Voltage	220V AC standard · 110V AC optional
Range, 220V Normal	154V–264V AC ±3V
Range, 220V UPS Mode	185V–264V AC ±3V
Range, 110V Normal	77V–132V AC ±3V
Range, 110V UPS Mode	92V–132V AC ±3V
Input Frequency	50/60Hz ±5%
AC OUTPUT	
Output On Mains	Same voltage & frequency as input
Inverter Output Voltage	220V AC ±10% (110V AC ±10%)
Inverter Output Frequency	50Hz or 60Hz ±1%
Transfer Time	≤10ms UPS mode · ≤20ms inverter mode

PARAMETER	SPECIFICATIONS
BATTERY & CHARGING	
Battery Type	External lead-acid, SMF or lithium
Battery Voltage	12V DC
Battery Charging Voltage	13.7V DC
Max AC Charging Current	16A
SOLAR CHARGER (OPTIONAL)	
Controller	Optional PWM solar controller
Max PV Array Power	400W
PV Input Range	15V–50V DC
Max PV Open-circuit Voltage	50V DC
Optimum Vmp Range	15V–20V DC
Max Solar Charging Current	30A
PROTECTION	
Mains Side	Input over-current (air switch)
Inverter Side	Overload, short circuit
Voltage	High and low voltage protection
Battery Reverse	Fuse-protected
DISPLAY & ALARMS	
Display	LCD + LED indicators
LCD Readings	AC V & Hz, PV V & A, output V & Hz, battery V, load current
LED Status	Mains/inverter mode, charging, fault
Buzzer	Fault-coded long and short beeps
PHYSICAL & ENVIRONMENTAL	
Unit Size (L × W × H)	325 × 263 × 123 mm
Package Size (L × W × H)	405 × 330 × 190 mm (pending)
Weight	Not available
Operating Temperature	-10°C to 50°C
Storage Temperature	-15°C to 45°C
Humidity	10–90% RH (non-condensing)
Origin	Made in India
In The Box	1 manual, 1 safety fuse

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

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