5500VA/48V

EURONET LF SINE WAVE INVERTER – 5500VA/48V

Pure Sine Wave Inverter / UPS | Toroidal Transformer



RATED CAPACITY	CHARGING VOLTAGE
5500VA	54.8V DC
BATTERY VOLTAGE	**PEAK LOAD RATIO**
48V DC	3:1 (max)
UPS TRANSFER TIME	**MAX AC CHARGE CURRENT**
≤10ms	24A

OVERVIEW

The EURONET LF Sine Wave Inverter 5500VA/48V is the largest model in the low-frequency range, built around a toroidal transformer for pure sine wave power from a 48V 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 54.8V DC with up to 24A and switches over in ≤10ms in UPS mode. It works with external lead-acid, SMF or lithium batteries and has LCD and LED status display.

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

Flexible Battery Choice
Works with external lead-acid, SMF or lithium batteries, charging at 54.8V DC with up to 24A

LCD & LED Status Display
LCD shows AC, output and battery voltage plus load current; LEDs show mode, charging and fault status

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

TECHNICAL NOTE

LF Sine Wave 5500VA/48V: low-frequency toroidal-transformer inverter/UPS, 5500VA, 48V DC battery, charging 54.8V, max AC charge 24A. 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. Standby 32W, <45dB, -10°C to 50°C. Made in India.

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PRODUCT TECHNICAL SPECIFICATIONS

PARAMETER	SPECIFICATIONS
GENERAL	
Model	5500VA/48V
Series	LF Sine Wave Inverters
Rated Capacity	5500VA
Rated Output	Not available
Topology	Low frequency, toroidal transformer
Output Waveform	Pure sine wave
Peak Load Ratio	3:1 (max)
Standby Consumption	32W
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	48V DC
Battery Charging Voltage	54.8V DC
Max AC Charging Current	24A
SOLAR CHARGER (OPTIONAL)	
PWM Solar Controller	Not available
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, 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)	Not available
Package Size (L × W × H)	Not available
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.*

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