

BSL Power BS500-48V-86V High-Performance Inverter

500W Pure Sine Wave / Wide Input 48V-86Vdc / Specialized for Electric Vehicles

Model: BS500-48V-86V | Input: 48V-86Vdc | Output: 220-230Vac

1. Product Overview

The **BSL Power BS500-48V-86V** is a high-reliability power converter specifically engineered for electric vehicles (E-bikes, scooters, and light EVs) and industrial DC battery banks. It supports a wide input voltage range of **48V to 86V**, converting DC power into stable, pure sine wave 220V/230V AC. Featuring a compact, modern design with an integrated LCD display, PD Type-C, and USB fast-charge ports, it is the ideal solution for mobile power needs in specialized transportation and field operations.

Key Features:

- **Pure Sine Wave Output:** Safe for all sensitive electronics.
- **Wide Range Input:** Compatible with 48V-72V battery systems.
- **Fast Charging:** Integrated Type-C PD and USB QC3.0 ports.
- **LCD Display:** Real-time monitoring of voltage and load.



2. Technical Specifications

Parameter	Specification
Rated Continuous Power	500 Watts
Peak (Surge) Power	1000 Watts
Input Voltage Range	48V - 86V DC (Suitable for 48V/60V/72V systems)
AC Output Voltage	220V / 230V AC $\pm$ 5%
Output Waveform	Pure Sine Wave (THD < 3%)
Conversion Efficiency	$\geq$ 90%
USB / Type-C Output	USB: 5V 2.4A / Type-C PD Support
Working Temperature	-20°C to +50°C
Protections	Over-voltage, Under-voltage, Overload, Overheat, Short-circuit

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