

YN-X206-Z 6000W High-Power
Ultrasonic Metal Welding
Machine - X Series Power
Battery Harness Welding Expert
YN-X206-Z



Product Overview

Specifications

Parameter	Specification
Input Voltage	220V AC
Operating Frequency	20KHz
Output Power	3000W / 4000W / 6000W (Optional)
Welding Area	10-50mm²
Equipment Dimensions	1020×610×1200mm
Equipment Weight	118kg
Application Fields	Power batteries, high-voltage wiring harnesses, IGBT modules

Product Features

- High-Precision Frequency Tracking : Utilizes 20KHz automatic tuning technology to match load changes in real-time, ensuring consistent and stable energy output, improving welding quality consistency.
- Flexible Multi-Power Options : Offers three power levels of 3000W, 4000W, and 6000W, which can be flexibly switched based on welding material thickness and area, adapting to different production needs.
- Robust and Durable Structure : The whole machine weighs 118kg, with an impact-resistant vibration base design and reinforced body, suitable for high-intensity continuous operation environments.
- Quick Mold Change Compatibility : Covers a welding area of 10-50mm², supports rapid replacement of various fixtures, reducing downtime and improving production efficiency.
- Intelligent Overload Protection : Built-in intelligent temperature control and current monitoring system, monitors equipment status in real-time, automatically triggers protection mechanisms, extending the lifespan of core components.

Applications

• New Energy Lithium Battery Production Lines

es Welding of power battery tabs, module busbars, energy storage battery pack assembly, with weld resistance $\leq 100\mu\Omega$, and extensive experience in daily production line integration.

• Automotive Wiring Harnesses and Connectors

rs Welding of high-voltage harness terminals, motor lead wires, and IGBT modules, replacing traditional crimping, reducing contact resistance by over 60%.

• Copper-Aluminum Transition Welding

ng Direct solid-state connection of copper-aluminum dissimilar metals without transition pieces, widely used in charging piles and the power electrical industry.

• Precision Electronic Components

ts Welding of micro terminals and sensor pins, with a minimal heat-affected zone, suitable for medical electronics and instrumentation.

Certifications

CB	3C	CQC	UL	FCC	CE	GS	UKCA
SAA	RCM	PSE	KC	KCC	NOM	BIS	BSMI