

AWithZ UF20B

AWithZ 10.5KW Farad Capacitor Spot Welder

Model: UF20B - User Manual

INTRODUCTION

The AWithZ 10.5KW Farad Capacitor Spot Welder (Model UF20B) is a high-performance, battery-powered resistance spot welding machine designed for precise and efficient welding of various metal sheets. It is specifically engineered for the repair and assembly of rechargeable battery packs, including 18650 and LiFePO4 lithium batteries. Utilizing supercapacitor technology, this welder provides stable and powerful output for reliable connections.

SETUP

1. Unpacking and Contents Check

Carefully unpack the spot welder and all included accessories. Verify that all components are present and undamaged:

- AWithZ UF20B Spot Welder Unit
- 2 Spot Welding Pens (40cm long, supporting intelligent handheld control)
- 1.5m Power Cable
- 2m Foot Pedal
- 2m Nickel-Plated Strip (0.1mm thick)
- Sandpaper
- Multi-Language User Manual

Precise Adjustment, Easy to Use

0-99 Levels of Welding Power Adjustment



Figure 1: Complete accessories included with the UF20B Spot Welder, ready for immediate use.

2. Connecting the Power Supply

The UF20B spot welder must be connected to a power source for operation. Plug the provided 1.5m power cable into the power input port on the back of the welder and then into a compatible 110-220V AC outlet. Ensure a stable power supply for optimal performance.

3. Connecting Welding Pens and Foot Pedal

Connect the two spot welding pens to the designated ports on the front panel of the welder. The intelligent handheld control allows for precise placement. If using the foot pedal mode, connect the 2m foot pedal to its dedicated trigger interface port.



Figure 2: The AWithZ UF20B Spot Welder with welding pens and foot pedal connected, ready for operation.

OPERATING INSTRUCTIONS

1. Powering On and Interface Overview

Press the power button to turn on the device. The intelligent display screen will illuminate, showing various settings and real-time temperature. The interface includes a Confirmation Button, Adjustment Buttons (P+ and P-), Smart Spot Welding Pen Port, and a standard Spot Welding Pen Port.

Robust Body, Stable Operation

Aluminum Alloy Shell with Ventilation Design



Figure 3: Detailed view of the UF20B's smart display screen and control buttons for easy operation.

2. Selecting Welding Modes

The UF20B offers three distinct spot welding modes to suit various applications:

1. **Intelligent Spot Welding Pen Control:** Allows for precise manual control via the welding pens.
2. **Automatic Mode:** The machine automatically detects contact and initiates the weld.
3. **Foot Pedal Mode:** Welding is triggered by pressing the connected foot pedal.

3 Spot Welding Modes

Flexible Switching to Meet Diverse Needs



Figure 4: The three flexible spot welding modes of the UF20B, adaptable to diverse welding needs.

3. Adjusting Welding Parameters

The welding power can be adjusted from 0 to 99 levels, allowing for fine-tuning based on material thickness and type. The integrated multi-core functions on the display allow adjustment of:

- **Preheating:** 1-10ms
- **Intermittent:** 1-20ms
- **Trigger Time:** 0.5-5.0s
- **Gear (Power Level):** 01-99
- **Number of Continuous Spot Welding:** 1-2 times

Use the adjustment buttons to navigate and change these settings for optimal welding results.

Complete Accessories Ready to Use

UF20B built-in farad capacitor battery
Must plugged in for use



Spot Welder (W=1.2kg, Size=181x95x80mm)



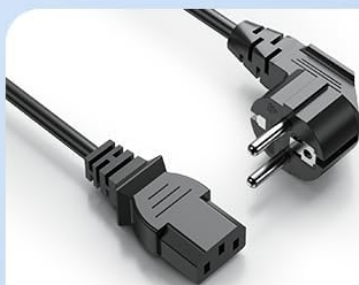
**Spot Welding
Pen Needles (1 pair)**



**Detachable Spot
Welding Pen (L=40cm)**



**Nickel-Plated Strips
(L=2m, Thickness=0.1mm)**



3-Pin Power Cable (L=1.5m)



Foot Pedal (L=2m)



**Multi-Language
User Manual**

Figure 5: Precise adjustment options on the UF20B display for fine-tuning welding power and timing.

4. Supported Materials and Thickness

The AWithZ UF20B is capable of welding various metal sheets. Refer to the table below for recommended maximum thicknesses:

Material	Max Thickness
Pure Nickel	0.25mm
Nickel-Plated	0.4mm
Steel Sheet	0.4mm

Material	Max Thickness
Iron Sheet	0.4mm
Copper	0.1mm

AWithZ Farad Spot Welder

- Persistent Power & Stable Output -

10.5 KW

Welding Materials & Thickness

(Model:UF20B)

Pure nickel
0.25mm

Nickel-plated
0.4mm

Steel sheet
0.4mm

Iron sheet
0.4mm

Copper
0.1mm

Figure 6: Visual representation of materials and their compatible thicknesses for welding with the UF20B.

5. Applications

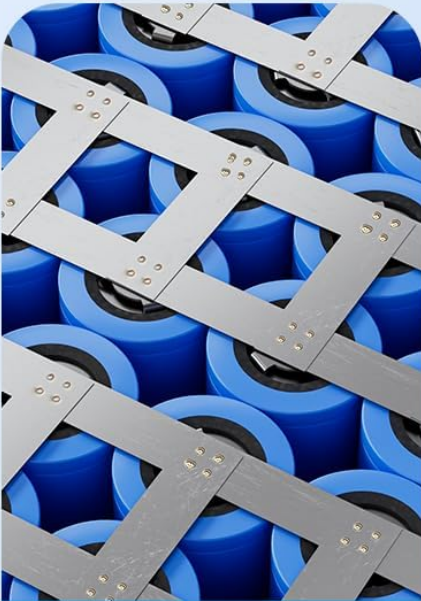
The UF20B is a versatile tool for various applications related to battery and metal work:

- Manufacturing new energy lithium-ion and lithium-polymer battery packs.
- Adding lead labels to battery cells.

- General hardware processing requiring spot welding.

Farah Capacitor Battery Spot Welder

Make & Repair Solutions:
New Energy Li-Battery/Li-Polymer Battery



**Manufacturing
battery packs**



**Adding
lead labels**



**Hardware
processing**

Figure 7: Common applications for the AWithZ Farad Capacitor Spot Welder in battery and hardware work.

MAINTENANCE

To ensure the longevity and optimal performance of your AWithZ UF20B Spot Welder, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the welding pens and the main unit to remove any metal dust or debris. Use a soft, dry cloth. For stubborn residue on welding tips, use the provided sandpaper or a fine abrasive.
- **Heat Dissipation:** The unit features a unique heat dissipation design. Ensure that the ventilation openings are not obstructed during operation to prevent overheating.

- **Storage:** Store the spot welder in a clean, dry environment away from direct sunlight, moisture, and extreme temperatures.
- **Inspection:** Periodically inspect the power cable, welding pens, and foot pedal for any signs of wear or damage. Replace any damaged components immediately.

UF20B-Farad Capacitor Spot Welder

Aluminum alloy shell with ventilation design



Service Life **90%**



Welding Firmness **75%**



Welding Experience **70%**

Figure 8: The UF20B's robust aluminum alloy shell and ventilation design contribute to stable operation and effective heat dissipation.

TROUBLESHOOTING

The AWithZ UF20B Spot Welder is designed for reliable operation. If you encounter any issues, consider the following:

- **No Power:** Ensure the power cable is securely connected to both the welder and a functional power outlet. Check the power button.
- **Weak Welds:** Adjust the welding power (Gear level) to a higher setting. Ensure the welding tips are clean and have good contact with the material. Verify the material thickness is within the supported range.
- **Overheating Alarm:** The unit has real-time temperature display and an automatic alarm/shutdown function for deviations. If

an alarm sounds, allow the unit to cool down. Ensure ventilation is not blocked.

- **Inconsistent Welds:** Check for proper contact of the welding pens. Ensure the material surfaces are clean and free of oxidation. Adjust preheating and intermittent settings if necessary.

For any persistent issues or further assistance, please refer to the Warranty and Support section.

SPECIFICATIONS

Feature	Detail
Manufacturer	AWithZ
Model Number	UF20B
Product Dimensions	9 x 8 x 18 cm
Weight	1.85 kg
Material	Aluminum Alloy
Max Output Power	10.5 kW
Power Source Type	Battery-driven (requires external power for use)
Voltage Compatibility	110-220 V
Welding Power Levels	0-99 Levels
Included Components	Spot Welder, 2 Spot Welding Pens, 2m Nickel-Plated Strip, Sandpaper, Charging Cable, 1.5m Power Cable, 2m Foot Pedal

WARRANTY AND SUPPORT

AWithZ is committed to providing hassle-free customer service. If you have any questions, concerns, or require technical assistance regarding your UF20B Spot Welder, please contact our expert support team. We are dedicated to assisting you with any inquiries you may have.

Please refer to your purchase documentation or the AWithZ official website for specific warranty terms and contact information.

ASK A QUESTION ABOUT THIS MANUAL

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