

## AWithZ U3

# AWithZ U3 7500mAh Portable Spot Welder User Manual

Model: U3 | Brand: AWithZ

## 1. INTRODUCTION

This manual provides detailed instructions for the safe and efficient operation of your AWithZ U3 7500mAh Portable Spot Welder. Please read this manual thoroughly before using the device to ensure proper function and to prevent damage or injury. Keep this manual for future reference.

## 2. SAFETY INFORMATION

Always observe the following safety precautions when operating the spot welder:

- Wear appropriate personal protective equipment, including safety glasses and gloves, to protect against sparks and heat.
- Ensure the work area is well-ventilated and free from flammable materials.
- Do not operate the device in wet conditions or with wet hands.
- Keep children and unauthorized personnel away from the operating area.
- Do not attempt to weld materials thicker than the specified maximum (0.35mm nickel sheet).
- Avoid touching the welding pens or welded materials immediately after operation, as they will be hot.
- Disconnect the power supply when not in use or during maintenance.
- Do not modify the device or use non-original accessories.

## 3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1x AWithZ U3 Spot Welder (with 7500mAh battery)
- 2x Spot Welding Pens
- 1x 2m Nickel-Plated Sheet
- 1x USB Type-C Charging Cable
- 1x User Manual

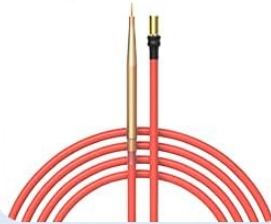
## Package Details

Built-in Multi-Language UI  
(English, German, French, Spanish, Italian)

Multi-Language  
User Manual



Spot welding pen  
(L=40 cm)



Typ-C charging cable  
(L=50 cm)



Nickel-Plate sheet  
(L=2 m, B=0,8 cm,  
thickness=0,1 mm)



Sandpaper



Image: Contents of the AWithZ U3 Spot Welder package, including the main unit, welding pens, nickel strip, and charging cable.

## 4. PRODUCT OVERVIEW

### 4.1 Key Features

- Integrated 7500mAh high-capacity battery for extended use.
- Large display with a 6-grid mobile user interface for easy navigation.
- Multi-language support (including English, German, French, Spanish, Italian).
- Adjustable power with 90 gears for precise welding control.
- Supports continuous spot welding for enhanced weld strength.
- Capable of welding nickel sheets from 0.05mm to 0.35mm thickness.
- Built-in preheating and intermittent welding functions.

- Can function as a power bank for charging mobile devices.



Image: Overview of the AWithZ U3 Spot Welder highlighting its multifunctional capabilities and intelligent precision welding features.

## 4.2 Device Components

Familiarize yourself with the main parts of your spot welder:

- **Main Unit:** Houses the battery, control board, and display.
- **Spot Welding Pens:** Connect to the main unit for precise welding.
- **Display Screen:** Shows welding parameters, battery status, and settings.
- **Control Buttons:** For navigation, power on/off, and parameter adjustment.
- **USB-A Output Port:** For charging external devices.
- **Type-C Input Port:** For charging the spot welder.

# Multifunctional Battery Spot Welder

Battery Manufacturing and Repair Solutions



## Intelligent Precision Welding

Welding Mode  
Gear  
Stitch welding  
Trigger Time  
Preheating



Image: The AWithZ U3 Spot Welder main unit connected to its spot welding pens.

## 5. SETUP

- 1. Charge the Device:** Before first use, fully charge the spot welder using the provided USB Type-C cable. The display will indicate charging status.
- 2. Connect Welding Pens:** Insert the two spot welding pens firmly into the designated ports on the top of the main unit. Ensure a secure connection.
- 3. Power On:** Press and hold the power button (usually the middle button) for a few seconds until the display screen illuminates.



Image: A visual guide showing the four quick steps to use the AWithZ U3 Spot Welder: charge, select mode/gear, install pens, and spot weld.

## 6. OPERATING INSTRUCTIONS

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### 6.1 Interface Navigation and Settings

The AWithZ U3 features a smart 6-grid user interface. Use the navigation buttons to select and adjust parameters.

- **Language Selection:** Press the three buttons simultaneously to change the interface language.
- **Mode Selection:** Choose between Automatic or Manual welding modes.
- **Gear Adjustment:** Adjust the welding power from 1 to 90 gears. Higher gears provide more power.
- **Preheating:** Set preheating time (e.g., 1-10ms) to remove surface oxides for stronger welds.
- **Intermittent Welding:** Adjust the interval between pulses (e.g., 1-20ms).
- **Continuous Spot Welding:** Set the number of continuous spots (e.g., 1-2 times) for enhanced weld strength.
- **Trigger Time:** Adjust the trigger delay (e.g., 0.5-5s).

# Newest Function

## Continuous Spot Welding

Support 0.1-0.35mm thickness  
90 Gear Adjustment, Empower your welder

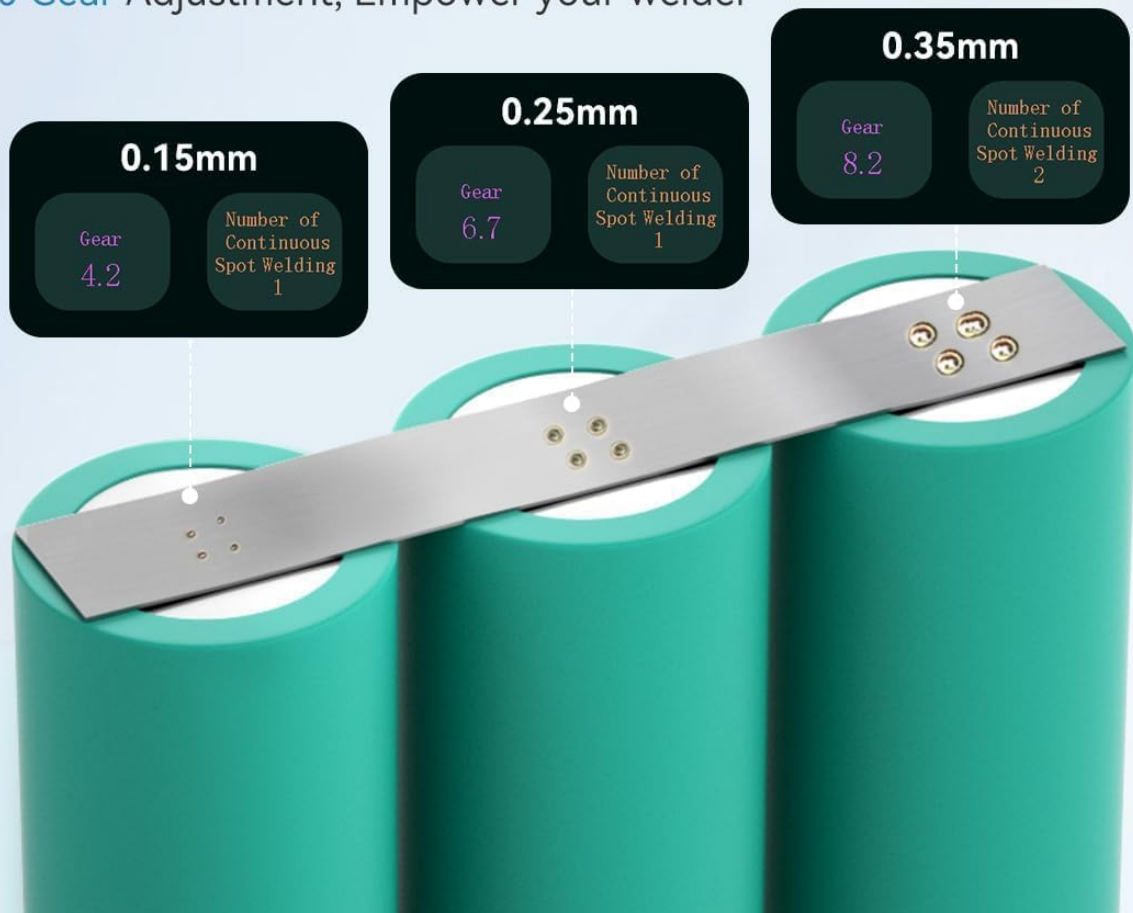


Image: The AWWithZ U3 Spot Welder's multi-language display showing various adjustable welding parameters.

## 6.2 Welding Process

The AWWithZ U3 is suitable for welding nickel sheets to cylindrical batteries (e.g., 18650, 26650, 32650), nickel-metal hydride, and nickel-cadmium batteries.

- 1. Prepare Materials:** Ensure battery terminals and nickel strips are clean. Place the nickel strip over the battery terminal.
- 2. Position Welding Pens:** Hold the welding pens firmly, ensuring both tips make contact with the nickel strip and the battery terminal. Apply slight pressure.
- 3. Initiate Weld:** In Automatic mode, the weld will trigger automatically after a set delay. In Manual mode, press the trigger button on the main unit or the foot pedal (if connected) to initiate the weld.
- 4. Inspect Weld:** After welding, carefully inspect the weld spots for strength and consistency. Adjust parameters as needed for optimal results.

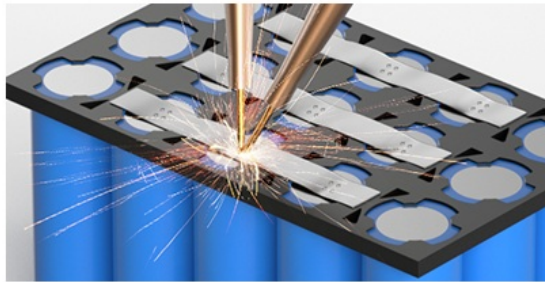
### Recommended Settings for 0.35mm Nickel Sheet:

- Continuous Spot Welding: 2 times
- Gear: 8.2

# ÁCIL DE HACER UN PAQUETE DE BATERÍAS

## 1.0~5.9~9.0 Engranaje Total 90 Engranaje Ajustable

Adecuado para Batería Cilíndrica



Tipo de Material de Soldadura  
Chapa Niquelada (MAX 0.35mm)



Algunos consejos:

Gear  
8.9

Chapa niquelada  
espesor 0.35mm-Gear  
8+Puntada de soldadura 2

Image: Demonstration of the spot welding process for battery pack assembly using the AWithZ U3.

### 6.3 Power Bank Function

The AWithZ U3 can also serve as a portable power bank. Connect your mobile device to the USB-A output port using a compatible charging cable to charge it.

# 7500mAh Powerful Battery Spot Welder



Image: The AWithZ U3 Spot Welder being used to charge a mobile phone via its USB-A output port.

## 6.4 Official Product Videos

Watch these official videos for further guidance on using AWithZ spot welders. While specific models may vary, the general operation principles apply.

Your browser does not support the video tag.

Video: AWithZ Spot Welder (UK1) Usage Tutorial. Demonstrates general operation and settings for an AWithZ spot welder.

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Video: AWithZ Spot Welder (UF20B) Welding Demonstration. Shows the welding process, including the use of a foot pedal, for an AWithZ spot welder.

## 7. MAINTENANCE

- **Cleaning:** Regularly clean the welding pen tips to ensure optimal conductivity. Use fine-grit sandpaper or a file to remove any buildup.
- **Storage:** Store the spot welder in a dry, cool place away from direct sunlight and moisture.
- **Battery Care:** For long-term storage, charge the battery to approximately 50-70% to prolong its lifespan. Avoid fully discharging the battery for extended periods.

- **Inspection:** Periodically check the welding pens and cables for any signs of wear or damage. Replace if necessary.

## 8. TROUBLESHOOTING

Problem	Possible Cause	Solution
No welding output	Low battery; loose welding pen connection; incorrect settings; dirty welding tips.	Charge the device; ensure pens are securely connected; adjust welding parameters (gear, preheating); clean welding tips.
Weak welds	Insufficient power (low gear); dirty materials; incorrect trigger time; material too thick.	Increase welding gear; clean battery terminals and nickel strips; adjust preheating/intermittent settings; ensure material thickness is within specifications.
Overheating warning	Continuous high-power operation; poor ventilation.	Allow the device to cool down; ensure adequate airflow around the unit.
Device does not power on	Battery fully discharged; power button not pressed long enough.	Charge the device; press and hold the power button for 3-5 seconds.

## 9. SPECIFICATIONS

Feature	Detail
Model Number	U3
Battery Capacity	7500 mAh Lithium Polymer
Voltage	3.7 Volts
Welding Thickness (Nickel Sheet)	0.05 - 0.35 mm
Adjustable Gears	90 levels
Special Features	Continuous spot welding function, Multi-language UI, Power Bank function
Product Dimensions	15 x 8 x 1.5 cm
Product Weight	600 g
Material	Thermoplastic

## 10. WARRANTY AND SUPPORT

Your AWithZ U3 Portable Spot Welder comes with a standard manufacturer's warranty. Please refer to the warranty card included in your package for specific terms and conditions. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact AWithZ customer service through the retailer where you purchased the product or visit the official AWithZ website.

