

Yoidesu Yoidesuscnfkq70y

Yoidesu Handheld Battery Spot Welder User Manual

Model: Yoidesuscnfkq70y

1. PRODUCT OVERVIEW

The Yoidesu Handheld Battery Spot Welder is a compact and portable device designed for precise spot welding of various battery types and nickel-plated sheets. It features a 1.33-inch TFT color screen, 99 adjustable power gears, and supports both automatic and manual welding modes. Its dual-pulse output ensures strong and efficient welds.





Figure 1.1: Front view of the Yoidesu Handheld Battery Spot Welder, showing its compact design and integrated screen.

Key Features:

- **Portable Design:** Handheld and lightweight, ideal for on-the-go repairs and DIY projects.
- **Dual Modes:** Supports both automatic and manual welding modes for versatile operation.
- **99 Power Gears:** Offers precise power adjustment for various materials and thicknesses (0.10mm to 0.25mm nickel plating).
- **Dual Pulse Output:** Ensures strong, firm welds with rounded solder joints.
- **1.33-inch TFT Color Screen:** Provides clear display of settings and operational status.
- **Detachable Soldering Pin:** Allows for easy replacement and maintenance.
- **Safety Features:** Includes internal smart temperature detection for overheat protection.

2. SAFETY INFORMATION

WARNING:

- When welding, and immediately after welding, the temperature of the welding needle, nickel plate, and battery welding melt pool will be extremely high. **Do not touch these areas** as it may cause severe burns.
- Always wear appropriate personal protective equipment, including safety glasses, when operating the spot welder.
- Ensure proper ventilation in your work area.
- Do not operate the device if it is damaged or malfunctioning.
- Keep the device away from flammable materials.
- After use, always cover the welding pins with the protective cap to prevent accidental contact or damage.
- The device has an internal smart temperature detection system. If the device temperature exceeds 65°C, it will cut off charging input and prohibit spot welding until the temperature drops below 63°C. Do not attempt to bypass this safety feature.



Figure 2.1: Illustrates the various built-in protection features of the spot welder, including excellent battery cell, impact proof, voltage regulation, short circuit, low temperature, high temperature, overcharge, and overdischarge guards.

3. PACKAGE CONTENTS

Please check the package contents upon receipt to ensure all items are present and undamaged:

- 1 x Yoidesu Battery Spot Welder Unit
- 2 x Copper Welding Needles (Detachable)
- 1 x Sandpaper
- 1 x Nickel Tape Roll
- 1 x Charging Cable (USB)

- 1 x User Manual (This Document)

4. SETUP AND CHARGING

4.1 Initial Charging

Before first use, fully charge the spot welder. Connect the provided charging cable to the device's charging port and a 5V 1A USB power adapter (not included). The 1.33-inch TFT color screen will indicate the charging status.

4.2 Attaching Welding Needles

The copper welding needles are detachable. Gently insert the needles into the designated slots at the front of the device. Ensure they are securely seated to ensure proper electrical contact.



Figure 4.1: Close-up view of the spot welder's screen, highlighting its digital display and showing the detachable welding pins at the bottom.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off

Press and hold the power button (location typically near the screen) for a few seconds to turn the device on or off. The TFT color screen will illuminate upon power-on.

5.2 Mode Selection (Auto/Manual)

The device supports both automatic and manual welding modes. Use the control buttons (refer to the screen interface) to switch between these modes. In automatic mode, the device detects contact and welds automatically. In manual mode, you initiate the weld via a button press.

5.3 Adjusting Power Gears (1-99)

The spot welder offers 99 adjustable power gears. Use the up/down buttons to select the appropriate power level for your welding task. Higher numbers indicate higher welding power. Start with lower settings and gradually increase as needed for optimal results on your material.



Figure 5.1: Display of the spot welder's screen, showing options for Manual/Automatic dual mode, 99 gears power, and adjustable spot welding delay/preheat settings.

5.4 Welding Process

1. **Prepare Surfaces:** Ensure the nickel sheet and battery terminals are clean and free of oxidation. Use the provided sandpaper if necessary.
2. **Position Material:** Place the nickel sheet firmly against the battery terminal where the weld is desired.
3. **Apply Pressure:** Press the two welding needles firmly onto the nickel sheet, ensuring good contact with both the sheet and the battery terminal beneath.
4. **Initiate Weld:**
 - *Automatic Mode:* The weld will automatically trigger once sufficient contact and pressure are detected.
 - *Manual Mode:* Press the designated welding button to initiate the weld.
5. **Inspect Weld:** After the weld, carefully lift the welder and inspect the joint. A good weld will be firm and have a rounded appearance.

Strong Current, Dual Pulse

Suitable for 0.10mm-0.25mm thickness ni plating welding



Figure 5.2: The spot welder in action, demonstrating the welding process on a battery pack with a nickel strip, showing the sparks generated during a strong, dual-pulse weld.

5.5 Dual Pulse Technology

This spot welder utilizes dual pulse technology for superior welding results. The first pulse (deoxygenation pulse) helps to clean the welding surface, while the second, stronger pulse (welding pulse) creates the actual bond. This results in cleaner, stronger, and more consistent welds.

Strong output of double pulse blessing.

Both spot welding machines have the function of double pulse, and the welding is firm, the welding spot is round and the effect is outstanding.

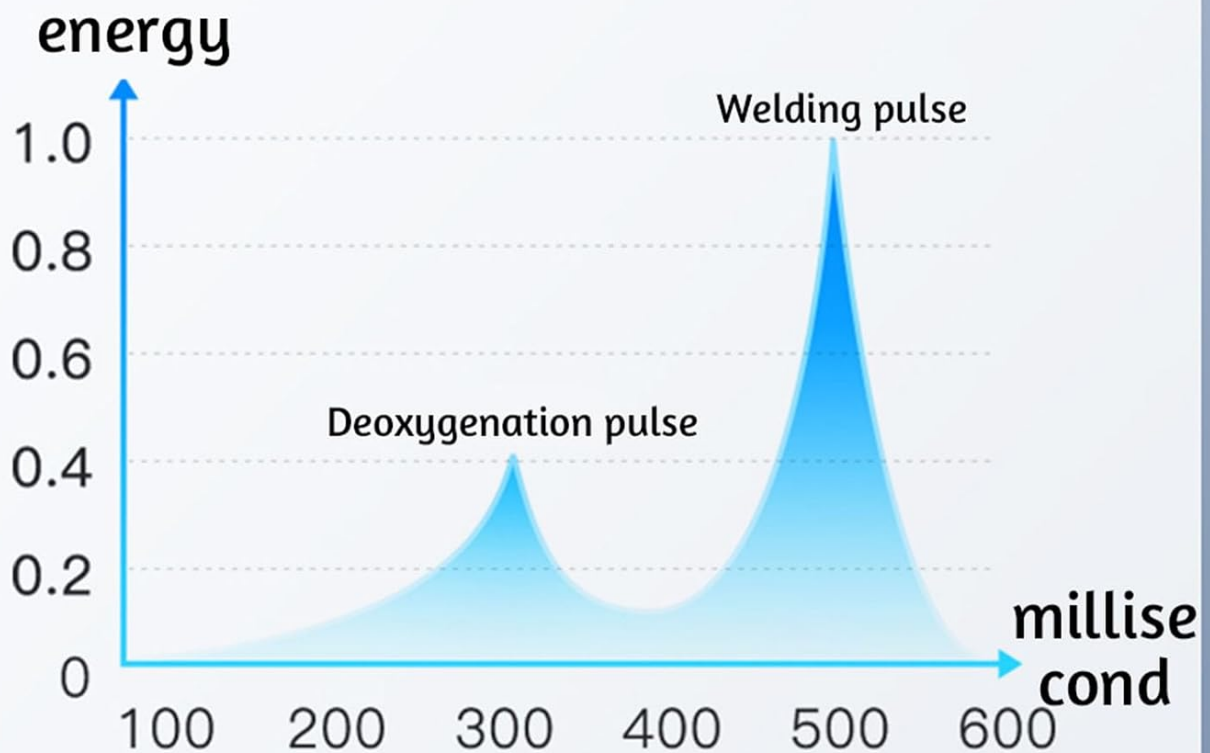


Figure 5.3: A graph illustrating the dual pulse output of the spot welder, showing a smaller deoxygenation pulse followed by a larger welding pulse over time, contributing to strong and efficient welds.

6. MAINTENANCE

6.1 Cleaning Welding Needles

Over time, the copper welding needles may accumulate residue or become oxidized. Use the provided sandpaper to gently clean the tips of the needles to ensure optimal conductivity and welding performance. Replace needles if they become excessively worn or damaged.

6.2 General Cleaning

Wipe the body of the spot welder with a soft, dry cloth. Do not use abrasive cleaners or solvents. Ensure no liquids enter the device.

6.3 Storage

Store the device in a cool, dry place away from direct sunlight and extreme temperatures. Always cover the welding needles with their protective cap when not in use.

7. TROUBLESHOOTING

- **Device does not power on:**

Ensure the device is fully charged. Connect it to the charging cable and allow sufficient time for charging.

- **Poor welds or no weld:**

- Check if the welding needles are clean and free of oxidation. Clean them with sandpaper if necessary.
- Ensure firm and consistent pressure is applied to both welding needles on the material.
- Increase the power gear setting. Start with a lower setting and gradually increase until a strong weld is achieved.
- Verify that the nickel sheet and battery terminals are clean.
- Ensure the material thickness is within the supported range (0.10mm to 0.25mm for nickel plating).

- **Device shuts off during operation:**

The device may have overheated. Allow it to cool down. The internal smart temperature detection system will prevent operation if the temperature exceeds 65°C. Operation will resume when the temperature drops below 63°C.



Figure 7.1: Diagram illustrating the internal smart temperature detection system, which automatically powers off the device if the temperature exceeds 65°C to prevent damage and ensures safety.

8. SPECIFICATIONS

Attribute	Value
Item Type	Battery Spot Welder
Product Material	ABS
Display Screen	1.33 inch TFT Color Screen
Battery Type	Lithium Cell 3000mAh (Built-in)

Output Voltage	4.2V
Output Current	800A
Charging Input	5V 1A
Power Gears	99 Gears
Welding Thickness (Ni Plating)	0.10mm to 0.25mm
Item Weight	10.1 ounces (approx. 286g)
Package Dimensions	9.06 x 3.54 x 1.18 inches (approx. 23 x 9 x 3 cm)
Model Number	Yoidesuscnfkoq70y

9. APPLICATIONS

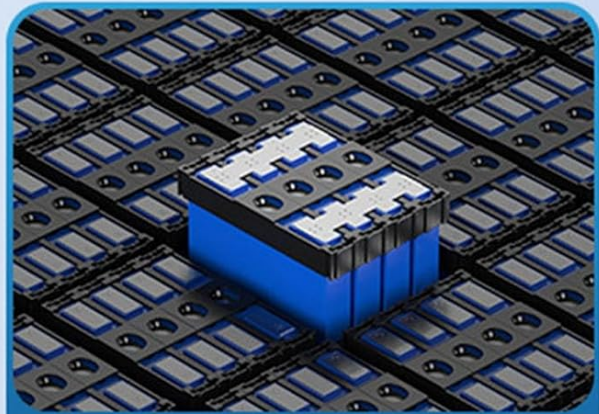
The Yoidesu Handheld Battery Spot Welder is versatile and suitable for a wide range of applications, including but not limited to:

- Lithium Cell Assembly
- LiFePO₄ Battery Assembly
- Mobile Phone Battery Repair and Replacement
- Electric Vehicle Battery Repair and Maintenance
- General DIY battery pack creation and repair

Wide Application



Lithium Cell Assembly



LiFePO₄ Battery Assembly



Mobile Phone Repair



Electric Vehicle Repair

Figure 9.1: Examples of the wide application range of the spot welder, including lithium cell assembly, LiFePO₄ battery assembly, mobile phone repair, and electric vehicle repair.

10. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the manufacturer's official website or contact the seller directly through your purchase platform. Keep your purchase receipt as proof of purchase.

For additional resources and product information, you may visit the [Yoidesu Store on Amazon](#).

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