

ZOEYEC HS-01

HS-01 Digital Smart Soldering Iron Kit User Manual

Model: HS-01 | Brand: ZOEYEC

1. INTRODUCTION

The ZOEYEC HS-01 is a state-of-the-art digital smart soldering iron designed for precision and portability. This manual provides comprehensive instructions for the safe and effective use, setup, operation, and maintenance of your HS-01 soldering iron kit.

Key Features:

- **Dual Power Input:** Supports both DC (up to 96W) and PD (up to 65W) power input via a versatile Type-C interface, with a working voltage range of 9-24V.
- **Rapid Heating:** Achieves desired temperatures in seconds, with a tinning time as fast as 8 seconds.
- **Precise Temperature Control:** Adjustable temperature range from 180°F to 780°F (80°C to 420°C), displayed accurately on a 0.87 HD color OLED screen.
- **Ergonomic & Portable Design:** Lightweight and comfortable to hold, making it ideal for mobile use and powered by a power bank.
- **Included Soldering Tips:** Comes with 6 different soldering tips for various applications.
- **Smart Functions:** Features PID smart constant temperature control, inductive sleep mode, and a left/right hand switch for display orientation.



Image showing the complete HS-01 Digital Smart Soldering Iron Kit, including the soldering iron, six different soldering tips, a power adapter, a Type-C cable, and a soldering iron stand with cleaning sponge.

Coexistence of appearance and performance

WHY CHOOSE **FNIRSI HS-01** [SMART SOLDERING IRON?]

Shh! I'm telling you, under the rose that... ▶▶▶▶▶



Mini pocket size



Ergonomic design



Aluminum material



OLED display



Left/Right
hand switch



Optional
input voltage



65W PD
protocol



6s
Melting tin



Efficient
heat radiation



PID Smart constant
temperature



Inductive
sleep



Integrated
soldering iron head

Infographic highlighting key features of the HS-01 soldering iron, such as mini pocket size, ergonomic design, aluminum material, OLED display, left/right hand switch, optional input voltage, 65W PD protocol, 6s melting tin, efficient heat radiation, PID smart constant temperature, inductive sleep, and integrated soldering iron head.

2. SETUP

2.1 Unpacking and Inspection

Carefully unpack all components from the box. Verify that all items listed in the kit contents are present and undamaged. If any items are missing or damaged, please contact customer support.

2.2 Attaching a Soldering Tip

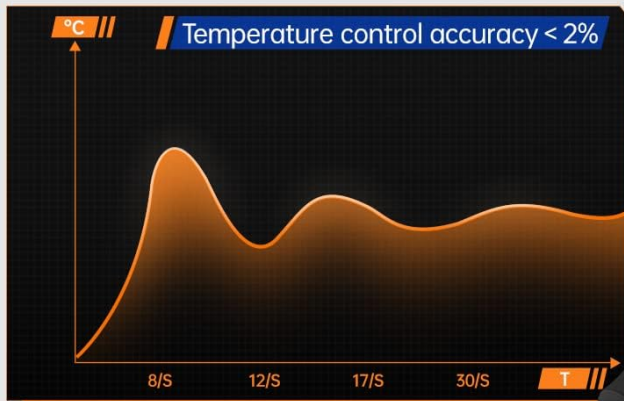
1. Select the appropriate soldering tip for your task from the included 6-piece set.
2. Gently insert the chosen soldering tip into the heating element receptacle of the HS-01 soldering iron until it is firmly seated. Ensure it is fully inserted to ensure proper heat transfer.

Adjustable input voltage **////>**

PID CONTROL TEMPERATURE

- ▶ HEAT UP, CONTROL TEMPERATURE,
- ▶ REWARMING RAPID & STABLE

32 Processor, Smart constant temperature, Accuracy < 2%



LEAD-FREE ▶ SOLDERING IRON TIP

Fast heat conduction, tinned



Close-up image illustrating the PID control temperature system and rapid heating capabilities of the HS-01 soldering iron, showing a temperature control accuracy of less than 2% and a heating curve, along with the soldering tip connection.

2.3 Power Connection

The HS-01 supports both DC and PD power inputs. Use the provided Type-C cable to connect the soldering iron to a compatible power source (e.g., PD fast charging head, power bank, or DC power adapter). The device will automatically detect the power source type.

Adjustable input voltage >>>>

DC,PD POWER SUPPLY ADJUSTABLE INPUT VOLTAGE

PD fast charging head,Power Bank,DC power adapter(Adapter cable)

OPERATING VOLTAGE	OPERATING CURRENT	POWER	MELTING TIME
20V	≥3.25A	65W	8s
15V	≥2.5A	37.5w	12s
12V	≥2A	24w	17s
9V	1.5A	13.5w	30s

NOTE: IF THE INPUT VOLTAGE IS LOWER THAN 9V, THE SCREEN WILL DISPLAY LOW VOLTAGE.

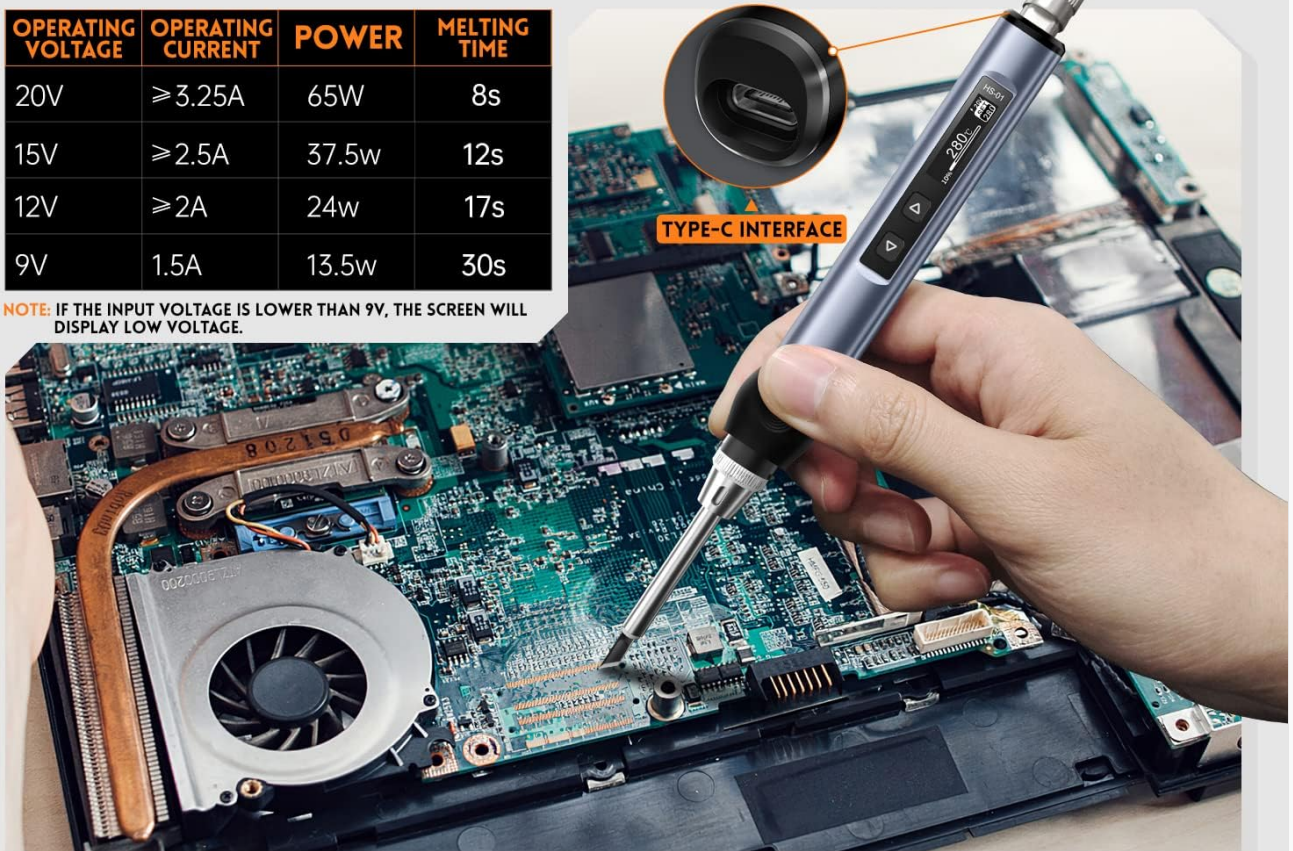


Image detailing the dual DC and PD power supply options for the HS-01, including a table showing operating voltage, current, power, and melting time for various input voltages, and highlighting the Type-C interface.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

Once connected to a power source, the HS-01 will automatically power on. To power off, disconnect the power source. The device also features an inductive sleep mode to conserve energy when not in active use.

3.2 Temperature Adjustment

The temperature can be precisely adjusted using the control buttons on the soldering iron. The current temperature and set temperature are displayed on the OLED screen. The adjustable range is 180°F to 780°F (80°C to 420°C).



Ergonomic handle design, like the paintbrush in Da Vinci's hand, HS-01 is integrated with your hand



Freely adjust the temperature whenever day and night



Silicone material
Comfortable/Anti-slip/Anti-scald



The calm personality endowed by the metal texture has buried the core of wisdom in the unassuming colors

Images demonstrating the ergonomic handle design for comfortable grip and the clear OLED display showing the adjustable temperature settings.

3.3 Left/Right Hand Switch

The HS-01 features a left/right hand switch function that adjusts the display orientation for optimal viewing, regardless of which hand you use to operate the iron. Refer to the device's menu or buttons for activating this feature.

Adjustable input voltage // // // ▶



LEFT / RIGHT HAND SWITCH



Images demonstrating the left and right-hand operation modes of the HS-01 soldering iron, showing how the display orientation adjusts for user convenience.

4. MAINTENANCE

4.1 Soldering Tip Care

- **Cleaning:** Always clean the soldering tip before and after use. Use a damp sponge or brass wool to wipe off excess solder and flux residue.
- **Tinning:** After cleaning, apply a small amount of fresh solder to the tip to prevent oxidation and prolong its lifespan. This is called 'tinning'.
- **Replacement:** Replace soldering tips when they become excessively worn, pitted, or corroded, as this can affect heat transfer and soldering quality.



HS01-KR



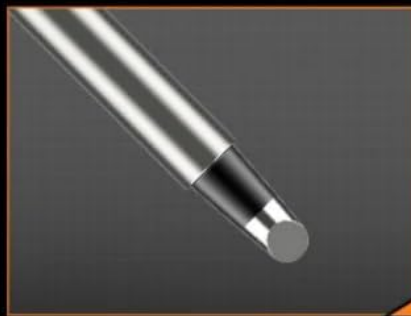
HS01-K65



HS01-B2



HS01-ILS



HS01-BC3



HS01-BC2

HS-01 Full Set

6pcs Soldering iron Tips

Image displaying the six different types of soldering tips included with the HS-01 kit: HS01-KR, HS01-K65, HS01-B2, HS01-ILS, HS01-BC3, and HS01-BC2.

4.2 General Cleaning

Ensure the device is powered off and cooled down before cleaning. Wipe the body of the soldering iron with a soft, dry cloth. Avoid using abrasive cleaners or solvents that could damage the casing or screen.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your HS-01 soldering iron.

Problem	Possible Cause	Solution
Soldering iron does not power on.	No power supply or faulty connection.	Ensure the Type-C cable is securely connected to both the iron and a working power source. Verify the power source is active.
Temperature not reaching set value or fluctuating.	Soldering tip not fully inserted, tip is oxidized/worn, or insufficient power supply.	Check that the tip is fully seated. Clean or re-tin the tip. If necessary, replace the tip. Ensure your power supply meets the required wattage (e.g., 65W PD or 96W DC).
"Low Voltage" message on screen.	Input voltage is below the minimum operating requirement (9V).	Use a power supply that provides at least 9V. For optimal performance, use a 20V PD or 24V DC power source.
Soldering iron enters sleep mode too quickly.	Inductive sleep setting is too sensitive or timeout is short.	Consult the device's menu (if available) to adjust the inductive sleep sensitivity or timeout duration.

6. SPECIFICATIONS

Model	HS-01
Power Input	PD 65W Max / DC 96W Max
Working Voltage	9-24V
Temperature Range	80-420°C / 180-780°F
Tinning Time	8 seconds (optimal conditions)
Screen	0.87 HD Color Screen
Soldering Tips Included	6 pieces
Power Supply Interface	Type-C
Color	Hs-01 Blue
Manufacturer	ZOEYEC

7. WARRANTY AND SUPPORT

7.1 Warranty Information

For specific warranty terms and conditions, please refer to the warranty card included with your product or contact the manufacturer directly. Warranty coverage typically includes defects in materials and workmanship under normal use.

7.2 Customer Support

If you encounter any issues not covered in this manual or require further assistance, please contact ZOEYEC customer support through their official website or the retailer from whom you purchased the product. Please have your model number (HS-01) and purchase details ready when contacting support.