SKY TOPPOWER 110v 60w Solder Station

SKY TOPPOWER Soldering Station User Manual

Model: 110v 60w Solder Station

PRODUCT OVERVIEW

The SKY TOPPOWER Soldering Station is a 60W digital display soldering iron station kit designed for precision electronics work, industrial applications, and DIY projects. It features a pure copper transformer, anti-static and grounding wire for safety, and a built-in transformer. The temperature is adjustable from 392°F to 896°F (200°C to 480°C) with rapid heating and improved temperature stabilization.

Image: Complete SKY TOPPOWER Soldering Station kit, including the main unit, soldering iron, iron stand, and various soldering tips.

Key Features:

- **Pure Copper Transformer:** Built-in professional copper transformer and grounding design ensure user safety and stable power output.

- **Digital Display & PID Temperature Control:** MCU computer thermostatic PID temperature control circuit for stable output power and precise temperature setting from 392°F to 896°F.

- **Low-Voltage AC Power Supply:** Single-group output AC24V voltage, ESD protection, anti-static, no leakage, and no interference, designed to prevent damage to electronic components.

- **Durable Construction:** High-temperature insulation handle with non-slip design, and a built-in four-core stainless steel heating core for extended life and precise temperature control.

- **Wide Application:** Suitable for professional soldering, industrial and manufacturing, precision electronics, school labs, home and hobby use, electronic DIY, and repair.

What's in the Box:

- Soldering Station Unit
- Soldering Iron
- Soldering Iron Stand
- Cleaning Sponge
- Assorted Soldering Tips (5 pieces)

SAFETY INFORMATION

Always observe the following safety precautions when operating the soldering station:

- Ensure the soldering station is connected to a properly grounded outlet to utilize its ESD safe features.
- Do not touch the soldering iron tip or heating element when the unit is powered on, as temperatures can reach up to 896°F (480°C).
- Use in a well-ventilated area to avoid inhaling solder fumes.
- Always place the soldering iron in its stand when not in use.
- Keep flammable materials away from the soldering area.
- Disconnect the power cord from the outlet before cleaning or performing maintenance.

Safe and Reliable

Metal soldering iron holder cleaning sponge

High temperature resistance

Control switch safe conversion

Image: The soldering station unit with its dedicated iron holder and cleaning sponge, highlighting safe and reliable operation.

SETUP

1. Unpack all components from the packaging.
2. Place the soldering station on a stable, heat-resistant surface.
3. Connect the soldering iron to the station's front port. Ensure the connector is firmly seated and not loose.
4. Place the soldering iron stand next to the station. Insert the cleaning sponge into the designated tray in the stand and dampen it with water.
5. Connect the power cord to the back of the soldering station and then to a 110V AC power outlet.

Connector, connected firmly and not easy to loosen

SKY TOPPOWER   Soldering Station

350

HD-937D

Min   Max   CAL

ESD SAFE

Temperature adjustment knob

Metal aviation

Power Voltage 220V, AC/50Hz

SKY TOPPOWER
Soldering Station

MODEL: HD-937b
INPUT: 110VAC 60Hz
POWER: 50W(MAX)
FUSE: 1A
Shenzhen SKY TOPPOWER Technology Co., Ltd.

Q.C. PASSED

CE
MADE IN CHINA

32112008354056

Power Consumption: 60W

Power Connector

Image: Detail of the soldering station's metal aviation connector for the iron and the power input at the rear, indicating a 110V AC, 60W power consumption.

OPERATING INSTRUCTIONS

Power On and Temperature Adjustment:

1. Turn the power switch on the front of the station to the 'ON' position. The digital display will illuminate.
2. Adjust the temperature using the rotary knob on the front panel. The display will show the set temperature.
3. Allow a few moments for the iron to reach the desired temperature. The PID control ensures rapid heating and stable temperature maintenance.

Switching Between Celsius (°C) and Fahrenheit (°F):

The soldering station allows you to switch between Celsius and Fahrenheit temperature displays. Follow these steps:

1. If the station displays °C, turn the unit off. Turn the temperature knob clockwise to the maximum setting. Switch the unit on. When the display shows "C", quickly turn the knob counter-clockwise to the minimum. The display will now show the degree of °F.
2. If the station displays °F, turn the unit off. Turn the temperature knob clockwise to the maximum setting. Switch the unit on. When the display shows "F", quickly turn the knob counter-clockwise to the minimum. The display will now show the degree of °C.

Soldering Iron Handle and Heating Core:

The soldering iron is equipped with a high-temperature insulation handle for comfortable and safe use. Inside, it features a four-core stainless steel heating core, which provides independent temperature control and efficient heating, contributing to the iron's durability.

Image: Detailed view of the soldering iron handle, showing its non-slip design and high-temperature resistant plastic construction with a silicone sheath.

Image: Exploded view of the soldering iron's internal components, highlighting the stainless steel heating core and its structure.

MAINTENANCE

Soldering Tip Care:

- Always tin the soldering tip before and after each use to prevent oxidation and prolong its lifespan.
- Regularly clean the tip using the damp sponge provided in the iron stand.
- If the tip becomes heavily oxidized, gently clean it with a brass wire cleaner or specialized tip tinner.

Station Cleaning:

- Ensure the unit is powered off and unplugged before cleaning.
- Wipe the exterior of the station with a soft, dry cloth. Avoid using abrasive cleaners or solvents.
- Periodically clean the iron stand and sponge tray.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Iron not heating / "H-E" error on display	Loose connection, faulty heating element, or damaged handle.	Ensure the soldering iron connector is securely plugged into the station. If the issue persists, contact customer service for assistance, as a replacement handle or heating element may be required.
Temperature fluctuates wildly or is inaccurate	Poor quality or worn-out soldering tip.	Replace the soldering tip with a new, high-quality tip. Ensure the tip is properly seated.
Solder not melting easily	Insufficient temperature setting, oxidized tip, or incorrect solder type.	Increase the temperature setting. Clean and tin the soldering tip. Ensure you are using appropriate solder for your application.

SPECIFICATIONS

Image: Dimensions of the soldering station unit and the soldering iron stand, illustrating their compact size.

Specification	Value
Model Number	110v 60w Solder Station

Specification	Value
Wattage	60 watts
Voltage	110V (USA plug)
Temperature Range	392°F to 896°F (200°C to 480°C)
Display Type	LCD Digital Display
ESD Safe	Yes
Transformer Type	Pure Copper Transformer
Item Weight	4.08 Pounds
Package Dimensions	9.92 x 8.35 x 5.39 inches

WARRANTY AND SUPPORT

SKY TOPPOWER provides 7/24 customer service and lifetime technical support for this product. If you have any concerns, questions, or suggestions, please do not hesitate to contact us.

For a detailed user manual in PDF format, please refer to the official document: User Manual (PDF).