

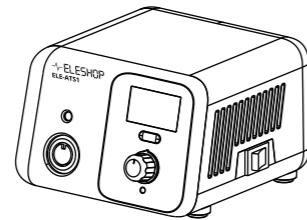


ELE-ATS1

Soldering Station User Manual

PACKING LIST

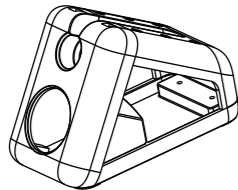
- Main unit: 1 pcs.
- Handle: 1 pcs.
- Iron stand: 1 pcs.
- User manual: 1 pcs.
- Brass wool: 1 pcs.



Main unit (ELE-ATS1)



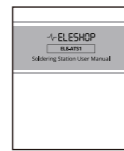
Handle



Iron stand



Brass wool



User manual

PRODUCT SPECIFICATIONS

Model No.	ELE-ATS1
Total Power	80 W
MAIN UNIT	
Output voltage	25 VAC
Temperature range	150 - 550 °C (302 - 1022 °F)
Temperature stability	±1°C (±1.8 °F) { > 200 °C (400 °F) }
Dimensions	148 x 120 x 85 mm
Weight (power cable excluded)	1.334 kg
HANDLE	
Power consumption	75 W
Tip to ground impedance	< 2 Ω
Tip to ground voltage	< 2 mV
Heating element	Integrated tip
Cable length	1.2 m
Weight	68 g
Note:	Specifications and appearance are subject to change for product improvement without prior notice

SAFETY AND PRECAUTIONS

For your own safety, please strictly abide by the following precautions.

Warning

When power is on, the temperature of the soldering iron tip might reach to 50 ~ 550 °C (120 ~ 1022 °F). Misuse may cause burns and fire, please strictly observe the following precautions:

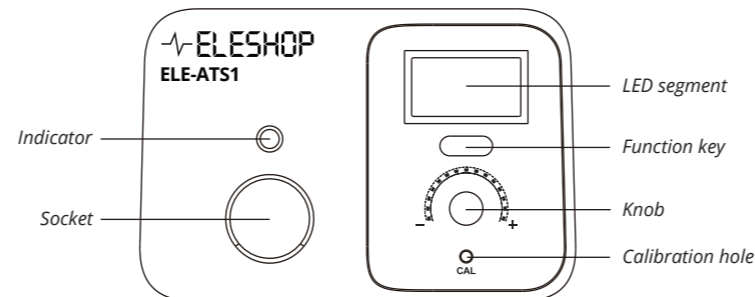
- Do not touch the soldering iron tip or the metal part around it while using
- Do not use it around combustibles
- Inform the people around of the potential risk caused by high temperature
- Turn the power off when not in use
- Before replacing parts or tip, turn off the power and wait till the iron tip cools down
- Do not use this product if you are inexperienced or have no sufficient necessary knowledge without the guidance of related qualified personnel
- Please keep it out of reach of children
- If the power cord is damaged, please ask the manufacturer or its service agent or similar qualified personnel to repair it, so as to avoid personal injury or damage to product

Please strictly observe the following precautions, otherwise it may cause injuries or death:

- Do not use this product for tasks other than soldering
- Do not use force on the handle for removing the tin on the iron tip
- Do not modify this product
- When replacing parts, one must only use original parts
- Do not soak the product in water or use it with wet hands
- Unplug it properly after using
- Smoke will be emitted during soldering, please use it in open space
- Do not engage in other dangerous acts with this product

OPERATION

1. Operation and display instructions



LED segment: digital display

Indicator: indicates the statement of heater (light on/off means power on/off)

Function key: function operation

Knob: to adjust temperature

Calibration hole: for calibration of the temperature

2. Turn on the power switch

After switching on, indicator lights up and LED segment displays **888** for 1 second. Now the power is on. And then it displays the temperature unit **--C** or **--F** for 1 second, so you know which unit is used right now. If the standby function is enabled in this soldering station, **SLP** will be displayed for 1 second to show standby function is available. Then displays the set temperature for 1.5 seconds, and finally displays the real time temperature. When the temperature is stable, indicator will flash.

Note: when not in use, please put the soldering iron in the holder. If it won't be used for a while, please cut off the power supply.

3. After use

After use, please clean the soldering iron tip and apply new solder on it.

4. Temperature unit conversion

First press function key, in the meanwhile switch on the power, till LED segment displays **888**, release the function key, now the temperature unit changes. If it was Fahrenheit, now switch to Celsius, and vice versa.

5. Temperature adjustment

Temperature range: 150 - 550 °C (302 - 1022 °F)

Note: as LED segment shows only 3 digits, "1022" will be displayed as "A22", "A" represents digit 10.

Temperature can be adjusted by turning the knob.

6. Screen brightness setting

- 1) Press and hold the function key till the the screen displays **LED**, to enter the brightness setting.
- 2) Show the current digital display brightness level **Ct1** - **Ct6**.
- 3) Adjust the brightness level through the knob: gear 1-6.
- 4) Press the function key or wait for 10 seconds to automatically save to complete the setting.

7. Standby and sleep functions

Standby function on and off:

- 1) Press and hold the function key till **SLP** display on LED segment to enter standby function on/off setting:
- 2) Display the current setting **ON** or **OFF**.
- 3) Adjust by knob: **ON** or **OFF** to turn on/off the standby and sleep function.
- 4) Press the function key or wait for 10 seconds to automatically save to complete the setting.

Standby function:

- 1) When standby function is turned on, the station will enter standby mode after not being used for 10 minutes.
- 2) In standby mode, LED segment displays **Stb** and temperature drops to 250 °C (482 °F).
- 3) When any operation is detected, such as using the soldering iron, adjusting knob or pressing the function key, it will return to the active mode.
- 4) When in standby mode, if no further operation is detected for 10 minutes, it will enter sleep mode.

Sleep function:

- 1) Short press the function key, or long time in standby mode, can make it enter sleep mode.
- 2) When entering sleep mode, screen displays **OFF** and heating is turn off.
- 3) Press the function key to return to normal, active mode.

8. Temperature locking function:

Temperature locking function on and off:

- 1) Turning the knob to adjust the temperature to be set.
- 2) Long press the function key till **LOC** is displayed.
- 3) Now LED segment displays **ON** or **OFF**.
- 4) Turn the knob to set the locking function to be **ON** or **OFF**.
- 5) Press the function key or wait for 10 seconds to automatically save to complete the setting.
- 6) When the temperature is locked, adjusting the knob does not change the setting temperature, it will display **LOC** for 1 second to show that the current temperature is locked.

9. Temperature calibration

The station is calibrated in factory. So there is no need to calibrate it before first use. In rare cases, and after long-term use, the station might have to be re-calibrated so that the actual temperature matches the set temperature again. Below you find the calibration steps, but be aware: only execute the steps if you fully understand what you are doing and have the right tools at your disposal.

- 1) Adjust the set temperature to 350 °C (662 °F) by knob and wait for 2 minutes to stabilize the temperature.
- 2) Apply some soldering tin. Then use a thermocouple immediately inside the soldering tin to measure the temperature of the soldering iron tip.
- 3) Use a cross screwdriver to adjust the calibration hole to make the displayed temperature value equal to the measured value. For example, if the measured value is 345 °C, adjust calibration hole to reduce display temperature 350 to 345, make the display temperature match the measured value.
- 4) Press the function key to complete calibration.

MAINTENANCE

In order to make this product durable, please maintain it regularly. The lifespan of this product depends on the used temperature, quality of solder wire and soldering paste, frequency of use etc. Please repair and maintain it according to specific use conditions.



Warning

Please pay close attention when the soldering station is in use at high temperature, cut off the power and unplug the power cord after use.

Soldering iron tip maintenance:

1. Set the temperature to 250 °C (480 °F).
2. After the temperature is stable, clean the soldering iron tip with a brass wool and check its condition.
3. If black oxide is attached to it, please apply new soldering tin (including flux) and wipe it repeatedly with brass wool until it's clean, then apply some new solder.
4. If the soldering iron tip has been deformed, perforated or worn out, please replace it with a new one.

How to extend soldering tip lifespan:

1. Do not set the temperature higher than necessary.
2. Do not apply pressure to the soldering iron / tip during soldering. Let the temperature do the job.
3. If you do not use the soldering station for a while, lower the temperature by e.g. putting the station in sleep mode or turning the soldering station off entirely.
4. After soldering, clean the soldering tip using the brass wool or a wet sponge. Then apply some fresh soldering tin and turn off the soldering station.
5. Do not apply pressure when cleaning the soldering iron with the brass wool or a wet sponge.
6. Use the right soldering tip for the solder task. For a proper heat transfer do not use a soldering tip that is too small for the job. Rule of thumb is to choose a soldering tip at least as big as the component you are soldering.

TROUBLESHOOTING GUIDE

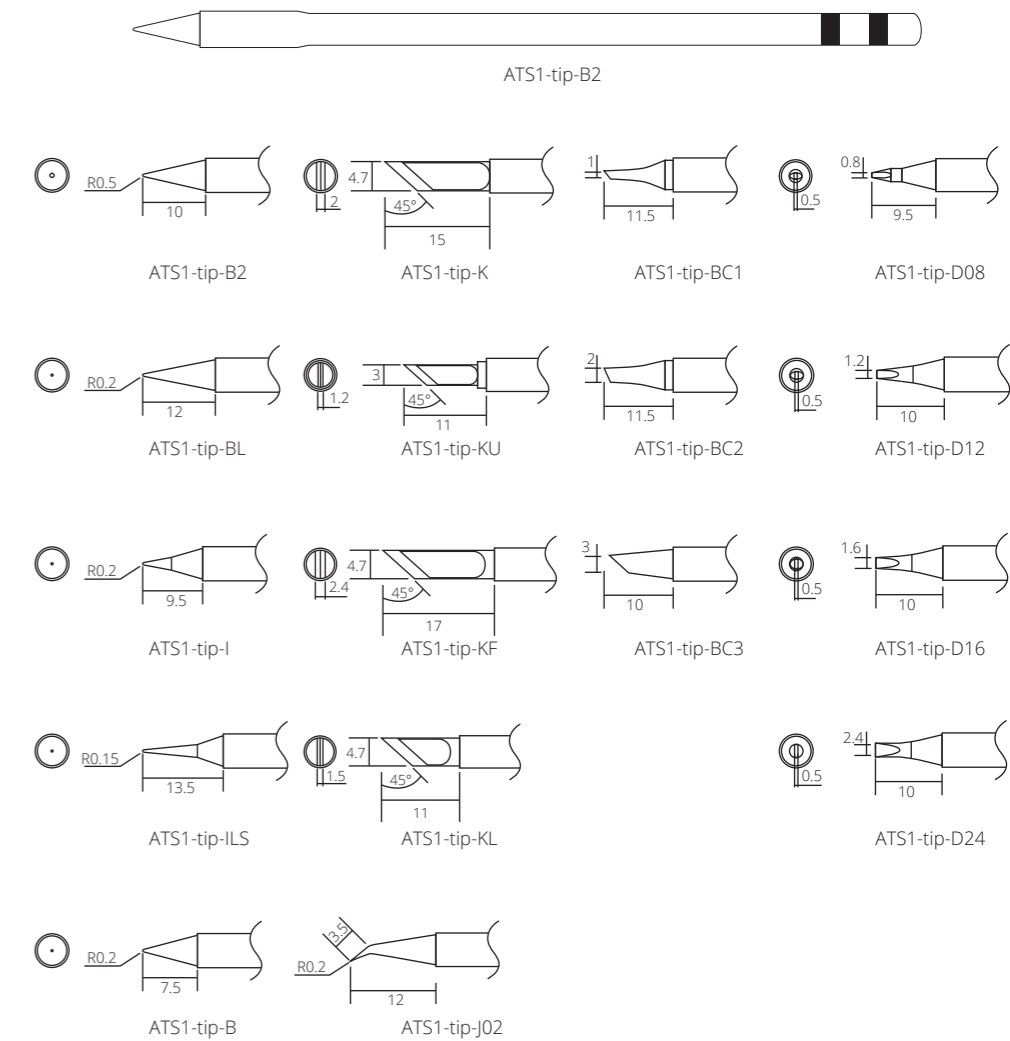


Warning

- When checking or replacing parts, be sure to pull out the power plug to prevent electric shock.
- If the power cable is damage, it must be sent to the manufacturer, agency store or maintenance personnel with the same qualification for repair to avoid accidents.

Failure phenomenon	Examination	Dealing method
Not working after power is on	Check whether the power cord is good, or plug falls off	Connect the power supply well
	Is the fuse OK	Figure out the cause of fuse damage: 1. Short circuit inside the station. 2. Inside the handle, the spring might meets the heating element. 3. Check whether the pin of heating element is twisted or short circuited. Even if the cause is unknown, please replace the fuse. If the fuse get burnt out again, please return the handle with the main unit for maintenance.
The display shows "S-E"	Whether the handle cable is well connected with main unit	Reconnected
	Whether the wire connecting to handle is broken	If so, please replace it with a new handle
	Whether the soldering tip is damaged.	If damaged, replace the soldering tip
The display shows "H-E"	Whether the wire connecting to handle is broken	If so, please replace it with a new handle
	Whether the soldering tip is damaged.	If damaged, replace the soldering tip
Iron tip heating is on and off	Whether the wire connecting to handle is broken	If so please replace it with a new handle
The solder won't get on the iron tip	Check whether the temperature of the iron tip is too high	Adjust to the proper temperature
	Check whether there is oxide on the tip	Clean the oxide with a brass wool and try again. If it doesn't help, replace soldering tip with new one.
Iron tip temperature is too low	Check whether there is oxide on the tip	Clean the oxide with a brass wool
	Whether the temperature is proper	Adjust to the proper temperature
The iron tip won't fit	Whether there is oxide on tip, or soldering iron tip expands	Change the soldering tip
	Not original tip or not same type tip	Use original factory tip only
The actual temperature can't reach the set temperature	Is the temperature set correctly	Adjust the set temperature again
	Haven't done temperature calibration for a long time	Re-calibrate temperature accordingly
	Is the temperature unit set correctly	Make sure that temperature unit is set to °C if that is meant to be. Or °F if that is meant to be set.

ELE-ATS1 SOLDERING TIPS



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