

MINALOX T12-PRO MAX 30000mAh SOLDERING IRON

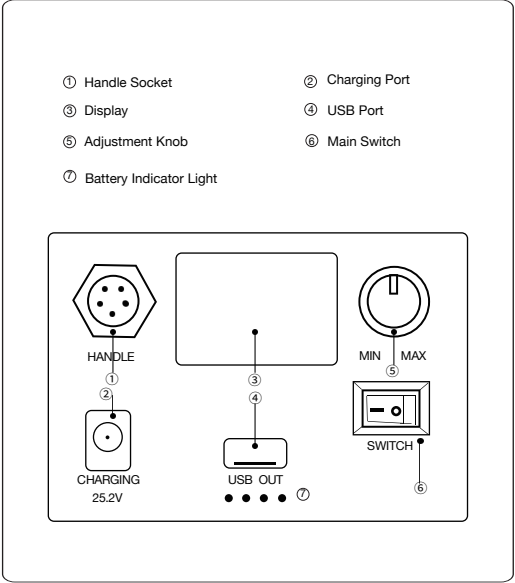
MNLXT12PM/30000mAh

User Manual

MINALOX
LIGHTING

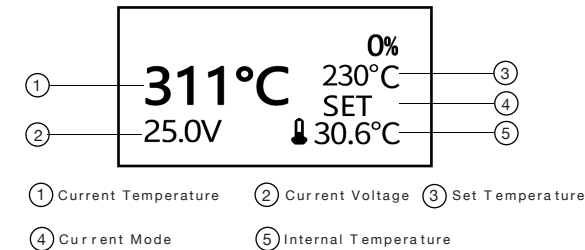
Product Introduction

The lithium-powered soldering station is a portable device that integrates a rechargeable soldering iron with a fast-charging USB power supply, enabling soldering operations outdoors without access to mains electricity. Powered by a lithium battery as its energy storage unit, it typically features high capacity, multi-functionality, compact size, extended lifespan, and reliable safety. This versatile tool provides soldering capabilities for diverse applications including high -altitude work, operations in power-deficient areas, and solar energy projects



Read this user guide before installing or using the product, and keep it for future reference.

Screen Function Overview



Soldering Iron Tip Installation and Maintenance



- When unpacking the soldering station, first remove the metal cap and sleeve from the handle. Insert the soldering tip, then reattach the sleeve and cap onto the tip and tighten them securely. This completes the installation. Plug in the main unit to begin use.
- When using a new soldering tip for the first time at higher temperatures, the display may oscillate between showing “no handle” and normal status. This is normal behavior and will resolve itself after two days of use.

Main Screen Operation Guide

- Upon startup, the device enters heating mode. At this point, you can adjust the desired temperature using the knob. Turning the knob counterclockwise lowers the temperature, while turning it clockwise raises the temperature. The temperature adjustment range is 180–480°C.
- Press and hold the knob for about one second to enter manual standby mode. The screen will display “Standby” in the upper left corner as a prompt, and the temperature will drop to the preset level. At this point, lifting the handle or moving the knob will wake up the soldering station and restore it to the previously set temperature.
- When the soldering station remains unused for extended periods, it will sequentially enter standby mode and then power off according to the parameters set in the menu. To resume normal operation at the previously set temperature, simply lift the handle or turn the knob.

Menu Settings

In any operational state, press and hold the knob for 2 seconds to enter setup mode. The menu consists of primary menus and secondary submenus. Press the knob to enter a menu for configuration. Rotate left to return to the previous menu level. Rotate right to scroll down and select submenus. After selecting an item and pressing the knob, you can configure its parameters. Press and hold the knob to exit the menu and save the settings.

Basic Settings

Op-amp gain: Default 250, range 100–350, typically does not require adjustment.
Offset voltage: Default 0, range 0–400 mV, typically does not require adjustment.
Thermocouple parameter: Default 42, range 30–50. Adjust when actual temperature differs from displayed temperature.

Standby Settings

Standby temperature: Default 200°C, range 180–250°C.
Standby time: Default 2 minutes, range 1–30 minutes.
Wake-up mode: Encoder / Vibration.

Sleep Settings

Sleep time: Default 5 minutes, range 0–30 minutes. Setting to 0 minutes enables immediate startup upon power-on.

Enter hibernation automatically after sleep time elapses.

Enhanced Configuration

Increase temperature: Default 50 degrees, range 20–100 degrees.
Strengthening duration: Default 1 minute, range 1–10 minutes with step settings.
Step setting: Default 10 degrees, range 1–10 degrees (temperature increase or decrease per encoder increment).

Screen Settings

Title position: Top / Bottom.

Screen saver duration: Default 15 seconds, range 0–240 seconds. Set to 0 to disable screen saver.

Buzzer Settings

Buzzer switch: Default On, selectable On / Off.
Reminder method: Save / All (set types of buzzer alerts).

Voltage Settings

Buzzer voltage: Default 4V, range 4–20V. Setting to 4V disables buzzer function.
Sleep voltage: Default 4V, range 4–20V. Setting to 4V disables sleep function.

Restore Defaults

Yes / No. Selecting “Yes” will restore the system to its default settings.

About Charging

- Charge only with the included charger. Never leave the device unattended while charging.
- Keep away from fire sources and flammable or explosive materials during charging.
- Avoid exposing the battery to extreme heat or direct sunlight.
- Do not disassemble, puncture, or expose the battery to open flames.
- Store in a cool, dry place. Do not short-circuit the battery terminals.
- If bulging, leakage, or overheating occurs, stop using immediately.

General Safety Instructions

- Operate in a well-ventilated area.
- Wear eye protection and avoid contact with hot surfaces.
- Keep this product out of reach of children.
- Before replacing the soldering iron tip or performing maintenance, unplug the power source and allow the device to cool down.