

### Specifications

Model	ESM-50WL
Battery	14.4V 3.45Ah 50Wh Lithium Ion
Heat time	<10 seconds (to lowest heat setting)
Fuel Gauge	4 levels: 25%*, 50%, 75%, 100%
Temperature Control	LO (6W/480°C), MID (9.5W/520°C), HI (13W/570°C)
Charger	110-240VAC 1A charger and 12VDC 1A car charger
Power Consumption	Standby Mode: <200μA; Shutdown Mode: <50μA
Dimensions	235mm x 37.8mm x 52mm (excluding tip)
Net Weight	304g (excluding tip)

*\*When the 25% capacity LED starts to blink, there is around 6% of battery power remaining.  
Please recharge immediately.*

### OPERATING INSTRUCTIONS

## **LITHIUM ION BATTERY POWERED CORDLESS SOLDERING IRON (ESM-50WL)**



## LITHIUM ION BATTERY POWERED CORDLESS SOLDERING IRON (ESM-50WL)

### SAFETY INFORMATION

Please read these Operating Instructions before use. Please keep these Operating Instructions in a safe place for future reference. Children shall not play with the soldering iron or its parts. Cleaning and user maintenance shall only be performed by a competent person. Use the soldering iron and its parts exclusively for the purpose indicated in these Operating Instructions under the conditions specified here. The manufacturer shall not be liable for injury or damage resulting from misuse of the soldering iron and its parts or unauthorised alterations.

### BEFORE FIRST USE

When new, the ESM-50WL will be in SHUTDOWN MODE - a unique feature that helps preserve battery life. To "wake up" the iron, connect the iron to its AC or DC charger (included) and charge before use. If the ESM-50WL needs to be stored for extended periods, SHUTDOWN MODE can be activated by holding down the temperature select button for seven (7) seconds.

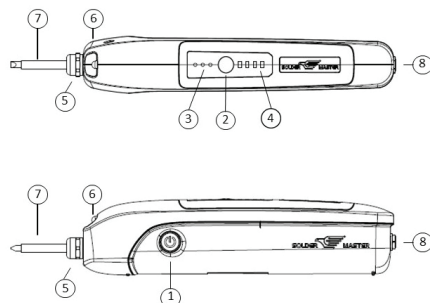
### FEATURES

- Adjustable 3-level temperature selection (Lo / Mid / Hi)
- Battery capacity indicator
- Battery charge status indication
- LED worklight
- Hold On/Off button to solder, release to stop

### ONE-PRESS BOOST FUNCTION

When higher temperature is required for a short time to complete current soldering job release and press soldering button again to boost temperature for 25 seconds without the need to change pre-selected temperature level. After 25 seconds, iron temperature will gradually drop to its originally selected temperature level. **It is not recommended to press and release soldering button consecutively as soldering tip may overheat and sustain damage.**

### PRODUCT DIAGRAM



1. Solder On/Off button
2. Mode (temperature select) button
3. Temperature level indicator
4. Battery level indicator
5. Nut
6. LED worklight
7. Interchangeable soldering tip
8. AC/DC direct plug-in charge port

### LED INDICATORS

- Battery capacity level LED x 4 (25%\* / 50% / 75% / 100%)
- Temperature level LED x 3 (Lo / Mid / Hi)
- LED worklight x 1

*\*When the 25% capacity LED starts to blink, there is around 6% of battery power remaining. Please recharge immediately.*

### 3-LEVEL TEMPERATURE SELECT

**LO:** 480°C - Suitable for wires up to 16AWG.

**MID:** 520°C - Suitable for wires up to 12AWG.

**HI:** 570°C - Suitable for wires up to 10AWG.

*\*It is possible for Solder Master to solder up to 8AWG or 6AWG wires under Hi temperature level when used in combination with One-Press Temperature Boost function.*

### POWER CONSUMPTION

STANDBY MODE: <200µA

SHUTDOWN MODE: <50µA

### SAFETY CHECK BEFORE OPERATION

- Read Operating Instructions and understand the dangers and risks.
- Ensure work area is clean and tidy
- Ensure work area is well ventilated.
- Examine iron and soldering tip for obvious signs of damage. Do not use if iron or tip appears damaged.
- Wear protective equipment including safety glasses.

### OPERATION

#### CHANGING SOLDERING TIP

1. Unscrew the nut and insert soldering tip until it cannot go down further, then tighten the nut again.
2. To replace soldering tip, wait until the tip has cooled and unscrew the nut to remove the tip.

#### CHARGING

1. Charge ESM-50WL iron before initial use. Only use supplied chargers for charging.
2. Battery capacity indicator will light up from 25%, 50%, 75% to 100% until battery is fully charged. When the iron is fully charged, remove charger before use. Iron will not operate during charge phase.

#### SOLDERING

1. Select soldering temperature level before use. Selected temperature level is automatically memorised for future use. If no selection is made the default temperature level is LO.
2. Press and hold soldering button for the iron to come to full temperature. Worklight LED will stay lit while soldering button is pressed and held.
3. Start solder according to material requirements.
4. When done, release the soldering button.
5. Place protective cap back on after soldering tip temperature has cooled down.

#### ACCESSORIES

Use only recommended accessories. Non-recommended accessories and parts may be hazardous, cause injury or damage to the iron or to equipment and/or void warranty.

#### STORAGE & SHUTDOWN MODE

Should the iron not be used for any prolonged period, press temperature select button for seven (7) seconds to activate SHUTDOWN MODE to conserve battery power.

SHUTDOWN MODE may be deactivated when charger is plugged back into the iron. While a full charge is not required to "wake up" the iron from SHUTDOWN MODE, it is recommended for the user's convenience.

#### MAINTENANCE

Follow the instructions above on soldering tip replacement. Use original replacement parts

only. Always have your soldering iron repaired by an authorised distributor. For more information please visit [www.soldermaster.com.au](http://www.soldermaster.com.au).

#### WARNING!

- Risk of burns!
- Do not touch the hot soldering tips and keep them away from inflammable objects.
- After the soldering process, the soldering tip is still hot.
- Never leave the iron unattended, especially after soldering when the tip is still hot.
- Keep explosive and flammable objects well away from the iron.
- Only replace solder tips when cold.
- Wear appropriate protective clothing to protect yourself against burns. Protect your eyes by wearing eye protection.
- Never work on voltage-carrying parts.
- Do not use if there are obvious signs of damage. The iron must be operated only in good technical working order.
- Avoid unintentional operation. Store the soldering iron in its protective carry case while not in use.
- Do not modify the iron in any way.

#### LIABILITY STATEMENT

Upon using this iron, the user agrees to have read and understood the instructions in these Operating Instructions. User assumes responsibility for any damage or losses incurred from improper use of the iron and its accessories.

#### DISPOSAL

Do not dispose of electric tools together with household waste material! Check your local regulatory guidelines on waste electrical and electronic equipment and its implementation in accordance with national law.

#### WARRANTY INFORMATION

24 months of warranty is provided for the iron. 3 months of warranty is provided for the tip/s. Tips are consumables. No replacement will be provided for used tips.

See enclosed Warranty Information and Procedure card for further details.