



Manuals.plus /

› PowerSmith /

› PowerSmith PC1401 40V Max Lithium-Ion Battery Charger Instruction Manual

## PowerSmith PC1401

# PowerSmith PC1401 40V Max Lithium-Ion Battery Charger

Model: PC1401

## 1. IMPORTANT SAFETY INFORMATION

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Read and understand all safety warnings and instructions before using this battery charger. Failure to follow the warnings and instructions may result in electric shock, fire, and/or serious injury.

- **Risk of Fire, Explosion, and/or Chemical Burns:** Do not disassemble, crush, heat above 212°F (100°C), expose to fire, or incinerate the battery or charger.
- This charger is designed for PowerSmith 40V Max Lithium-Ion batteries only. Do not attempt to charge other types of batteries, as this may lead to personal injury and damage.
- Do not expose the charger to rain or wet conditions. Water entering a battery charger will increase the risk of electric shock.
- Do not use the charger if the cord or plug is damaged. If the charger is not working as it should, has been dropped, damaged, left outdoors, or dropped into water, return it to a service center.
- Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the charger. Keep cord away from heat, oil, sharp edges, or moving parts.
- Ensure the charger is unplugged from the power source before attempting any maintenance or cleaning.
- Always operate the charger in a well-ventilated area.

## 2. PRODUCT OVERVIEW

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The PowerSmith PC1401 is a 40V Max Lithium-Ion battery charger designed to quickly and efficiently recharge PowerSmith 40V Max batteries. It features an intelligent charging system that maintains battery capacity and includes indicator lights to show the charging status.



This image displays the PowerSmith PC1401 40V Max Lithium-Ion Battery Charger. A 40V PowerSmith lithium-ion battery is shown inserted into the charging slot. The charger is black with ventilation fins and indicator lights on the front panel. A black power cord with a European-style plug is visible on the left side.

### Key Features:

- Compatible with PowerSmith 40V Max Lithium-Ion batteries.
- Charge indication light for status updates.
- Fast charging capability, fully charging batteries in approximately 75 minutes.
- Designed for optimal battery pack charge maintenance.

### 3. SETUP

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1. **Unpack the Charger:** Carefully remove the charger from its packaging. Inspect for any damage that may have occurred during shipping.
2. **Choose a Location:** Place the charger on a stable, flat surface in a dry, well-ventilated area. Ensure it is away from direct sunlight, heat sources, and moisture.
3. **Connect to Power:** Plug the charger's power cord into a standard 120V AC electrical outlet. The charger's indicator lights may briefly illuminate upon connection.

## 4. OPERATING INSTRUCTIONS

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### Charging a Battery:

1. **Insert Battery:** Align the grooves on the 40V Max Lithium-Ion battery with the corresponding rails on the charger. Slide the battery firmly into the charger until it clicks into place.
2. **Monitor Indicator Lights:** The charger features indicator lights that display the charging status:
  - **Red Light (Solid):** Indicates the battery is charging.
  - **Green Light (Solid):** Indicates the battery is fully charged.
  - **Flashing Red Light:** May indicate a battery error or extreme temperature. Refer to the troubleshooting section.
3. **Charging Time:** A fully depleted PowerSmith 40V Max battery can be fully charged in approximately 75 minutes. Actual charging time may vary based on battery condition and ambient temperature.
4. **Remove Battery:** Once the green light indicates a full charge, press the battery release button (if present) and slide the battery out of the charger.
5. **Unplug Charger:** For energy conservation and safety, unplug the charger from the power outlet when not in use or when charging is complete.

## 5. MAINTENANCE

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### Cleaning:

- Always unplug the charger before cleaning.
- Use a soft, dry cloth to wipe down the exterior of the charger.
- Do not use water, solvents, or abrasive cleaners, as these can damage the charger.
- Keep the ventilation slots clear of dust and debris to ensure proper cooling.

### Storage:

- Store the charger in a cool, dry place, away from direct sunlight and extreme temperatures.
- Keep the charger and batteries out of reach of children.
- If storing for extended periods, ensure the battery is partially charged (not fully depleted or fully charged) to prolong its lifespan.

## 6. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Charger indicator lights do not illuminate.	No power to the charger; faulty outlet; damaged charger.	Check power outlet; ensure charger is plugged in securely; try a different outlet; inspect charger for damage.
Battery not charging (Red light not solid).	Battery not properly inserted; battery too hot/cold; faulty battery.	Re-insert battery firmly; allow battery to reach room temperature; test with a different battery if available.
Flashing Red Light.	Battery error; battery temperature outside operating range.	Remove battery, allow it to cool down or warm up to room temperature, then re-insert. If error persists, the battery may be faulty.
Slow charging.	Extreme ambient temperature; battery age/condition.	Ensure charging in a moderate temperature environment (5°C to 40°C / 41°F to 104°F). Older batteries may charge slower.

## 7. SPECIFICATIONS

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- **Model Number:** PC1401
- **Input Voltage:** 120 Volts AC
- **Output Voltage (Nominal):** 36V DC
- **Output Voltage (Max):** 40V DC
- **Battery Cell Type:** Lithium Ion
- **Approximate Charge Time (2.5Ah battery):** 75 minutes
- **Product Dimensions:** 20.32 x 15.24 x 10.16 cm
- **Item Weight:** 718 g
- **Included Components:** One 40V battery charger

## 8. WARRANTY AND SUPPORT

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The PowerSmith PC1401 40V Max Lithium-Ion Battery Charger is backed by the PowerSmith 3 Year Manufacturer Warranty. This warranty covers defects in material and workmanship under normal use.

For warranty claims, technical assistance, or customer support, please contact PowerSmith's US-Based Customer Support. Refer to the official PowerSmith website or product packaging for the most current contact information.

**Manufacturer:** PowerSmith

**Place of Business:** WILLIAMSTON, SC, 29697 US

For more information, visit the official PowerSmith brand page.