

Battery Guidelines and Warnings

DT Research tablets, laptops, and AIO computers are powered by lithium polymer or Lithium-Ion battery packs in proprietary form factors. Battery configurations for the DT Research devices include internal (bridge or backup), removable or swappable implementations. Battery usage cycles, or duration between necessary re-charge, vary with a number of factors, including device model, device usage pattern and battery health/aging. The DTR battery packs may be charged while attached to the device or when separated from the device and docked in proprietary battery charging cradles. Following the guidelines on good practice below can help to keep a battery pack healthy and prolong battery usage cycles and battery lifespan.

- For battery safety and optimal functionality and performance, we suggest charging the battery pack between 10 °C to 30 °C (50 °F to 86 °F).
- Avoid exposing the battery pack to extremely low temperatures or environmental conditions, low temperatures will cause shortened operating time and voltage instability, affecting the ability of the battery to deliver a consistent voltage. The appropriate operating temperature for the battery is 0 °C to 50 °C (32 °F to 122 °F).
- The battery is a consumable item, the rate of battery deterioration depends on the usage environment. Please be aware that improper usage may accelerate the aging process of the battery, thereby affecting its performance and lifespan. We suggest to replace the battery pack if signs of degradation or reduced performance occur.
- Avoid high heat conditions during operation, idle, charging, and storage states.
- Do not allow the battery to become over-discharged or depleted. Over-discharge occurs when a fully discharged battery pack (around 0%) is left unused for an extended period (weeks or months). In this state, the embedded battery controls enter protection mode, preventing recharging for safety reasons. To reduce this risk, recharge idle batteries regularly to a level between 30% and 80%. Battery status can be checked using the Windows Battery utility.
- For long term storage, it is recommended that removable battery packs be stored separated from the device. Otherwise, the system should be placed in Shutdown mode. The battery level will decrease with time and it is recommended that the battery packs be monitored or recharged every 2-3 months to maintain battery health.
- When the battery is used in normal situation and room temperature, the life cycle is around 300-500 cycles.
- If the computer is not used more than two weeks and not connected to the power adapter, please take out the battery from the computer. When the battery is not installed in the computer, please charge it at least every three months. If the battery is not used for a long time, it may be over discharged to cause damage.



- ※ The battery used in this device may present a risk of fire or chemical burn if mistreated. Do not disassemble, heat above 50 degree C, or incinerate. Replace battery with Manufacturer: DT Research Inc only. Use of another battery may present a risk of fire or explosion.
- ※ Dispose of used battery promptly. Keep away from children. Do not disassemble it and do not dispose of it in fire.
- ※ The Computer is provided with a battery-powered real-time clock circuit. There is a danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions. (Replacement of RTC battery or fuel cells by adequately trained personnel.)