

## Important information regarding the use of lithium batteries

### Safety Measures

1. **Proper Installation:** Ensure that the lithium battery is installed by a certified professional. Incorrect installation can lead to short circuits and other hazards.
  2. **Ventilation:** Install the battery in a well-ventilated area to prevent overheating. Avoid placing it near flammable materials.
  3. **Temperature Control:** Lithium batteries should be kept within the recommended temperature range. Extreme temperatures can affect performance and safety.
  4. **Regular Inspections:** Conduct regular inspections for any signs of damage, wear, or leaks. Address any issues immediately.
  5. **Fire Safety:** Have fire extinguishers rated for electrical fires nearby. In case of a fire, do not use water to extinguish it.
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1. **Avoid Overcharging:** Use a charge controller to prevent overcharging, which can cause overheating and potential explosions.
  2. **Proper Disposal:** Dispose of old or damaged batteries according to local regulations. Do not throw them in the trash.

### Instructions for Safe Use

1. **Read the Manual:** Always read and follow the manufacturer's instructions and safety guidelines.
2. **Use Compatible Equipment:** Ensure that all components of the solar energy system are compatible with the lithium battery.
3. **Monitor Battery Health:** Use a battery management system (BMS) to monitor the health and performance of the battery.
4. **Avoid Physical Damage:** Handle the battery with care to avoid punctures or impacts that could cause internal damage.
5. **Emergency Procedures:** In case of a malfunction, disconnect the battery from the system and contact a professional for assistance.
6. **Storage:** If storing the battery for an extended period, keep it at a partial charge and in a cool, dry place.
7. **Training:** Ensure that all household members are aware of the safety measures and emergency procedures.

Following these guidelines will help ensure the safe and efficient use of lithium batteries in your home solar energy system. Stay safe and power on! 🌞🔋

<https://www.worksafe.govt.nz/topic-and-industry/energy-safety/safe-use-of-lithium-ion-batteries-and-battery-products/>