



Attachment 2: Electric rideable device lithium-ion battery safety

Factsheet for riders

Using an electric rideable device (ERD) is a great way to get around. Walking, wheeling and riding are good for your health and the environment and are a low-cost way to travel.

These devices are powered by Lithium-ion batteries that pose a fire risk. When fires occur, they are very difficult to contain and can endanger people and property.



What to do

- **Buy from a reputable supplier or reputable brand.** Speak to your local bicycle or micromobility retailer to make an informed purchase.
- **Only use the battery charger that comes with the device or certified third-party charging equipment compatible with the battery specifications.** A quality battery and charger are designed to work together and have safeguards such as an automatic cut-off to prevent overcharging. It's not safe to borrow a charger. Chargers should also have the Regulatory Compliance Mark (eess.gov.au/rcm/regulatory-compliance-mark-rcm-general).
- **Regularly check your battery for signs of damage.** Battery damage warning signs:
 - Very hot to the touch
 - Colour change
 - Change in shape (e.g. swelling or distortion)
 - Producing smoke, odour or leaking
 - Not keeping a charge.

- **Store and charge your battery in a cool, dry place with good ventilation.** At your workplace, only use the designated area to park and charge.
- **Charge your battery away from flammable materials** such as soft furnishings.
- **Use a timer** to turn off your charger to reduce the risk of overcharging.
- **Allow your battery to cool down before charging** to reduce the risk of overheating.
- **You don't need to maintain maximum battery charge.** Charging to below 100 per cent reduces the likelihood of overcharging and, if damaged, batteries with a lower state of charge are less likely to catch fire. When storing the battery for an extended period, keep around a 20 to 30 per cent charge.



What not to do

- **Don't use or charge a battery if damaged.**
- **Don't modify or use an ERD or battery that's been modified.** Modifications may override the safety mechanisms built into the battery and charger.
- **Don't charge a battery for extended periods or overnight.** Overcharging is a key cause of overheating. Disconnect the power when the battery reaches the desired level of charge.
- **Don't block exits when you park your device.** It's important to keep exits clear in case of an emergency.
- **Don't dispose of batteries in general waste or general recycling.** Find a drop off point: bcycle.com.au/drop-off