

# Backup Power Solutions



## Why is power backup essential?

1. **Stay connected** – Keep your modem and internet active for Wi-Fi calling and online access.
2. **Protect your tech** – Prevent damage from surges and safely shut down or save work.
3. **Support vital devices** – Power medical or other critical equipment when the main power is out.
4. **Stay operational** – Keep EFTPOS machines, computers and essential services running.

## Selecting the right solution

### Assess your needs:

- **Essential equipment** – List the devices you must keep running, such as modems, routers, medical devices, or payment systems.
- **Your current setup** – Consider what kind of internet and phone connection you use and what power it requires.
- **Outage duration** – Decide how long you need backup power. Is it just long enough to shut down safely, or do you need extended operation for medical needs or business continuity?
- **Budget** – Factor in both the upfront cost and any ongoing expenses like battery replacement or maintenance.



## Types of solutions

**1. Uninterruptible Power Supply (UPS) systems:** provide immediate power during an outage, preventing data loss and downtime. Types of UPS systems:

- **Standby UPS:** Basic protection, good for home use and small offices. Ideal for small equipment like computers and routers.
- **Line-Interactive UPS:** Better for areas with frequent power fluctuations as they offer better protection and voltage regulation.
- **Online UPS:** Provides the highest level of protection with continuous power, ideal for critical equipment.

**Use cases:** Short-term outages, protecting sensitive electronics.

# Power back up for connectivity



**2. Generators:** provide power for longer durations. Types of generators:

- **Portable generators:** Small, movable units, ideal for temporary use.
- **Standby generators:** Fixed units that automatically activate during a prolonged outage.

**Use cases:** Extended outages, powering larger equipment or entire premises.

**3. Solar power systems with battery storage:** an eco-friendly renewable energy solution with lower long-term costs. Types of solar powered systems:

- **Grid-tied systems with battery backup:** Connected to the power grid but with batteries to store excess power for use during power outages.
- **Off-grid systems:** Completely independent of the power grid, ideal for remote locations.

**Use cases:** Sustainable long-term power backup, especially in sunny regions.

**4. Portable power stations:** a compact, rechargeable device designed to store and supply electrical power for use when you're away from traditional power sources.

Portable power stations are used to:

- Charge devices like phones, tablets, and laptops.
- Power small appliances such as fans, mini fridges, CPAP machines, lights, and even TVs.
- Provide backup power during emergencies or blackouts.
- Most models include AC, DC, and USB ports, and can be recharged via a wall socket, car charger, or solar panels (if supported).
- They're clean, quiet, safe for indoor use, and easy to transport.

## Regional Tech Hub

- Free and independent advice
- A range of online resources

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[www.regionaltechhub.org.au](http://www.regionaltechhub.org.au)



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