



THE UNIQUE FLOW BATTERY SYSTEM DESIGNED FOR YOUR HOME OR OFFICE

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What is ZCell?

ZCell is a new type of battery with performance characteristics that make it ideally suited to store energy for your home or office.

The Australian-designed ZCell is an innovative flow battery that can deliver 10 kilowatt hours (kWh) of stored energy each day, harvesting energy from your solar panels or lower-cost off-peak power, for use when you need it. About the size of an air-conditioning unit, ZCell is designed by ASX-listed company Redflow Limited (ASX:RFX), based on its core ZBM2 battery, which is operating at sites around the world including Australia, Asia, Africa, America and Europe.

Installing ZCell as part of your energy management system can reduce your power costs, keep your lights on during grid power cuts and increase your energy independence.



WHY ZCELL?



ZCell delivers 100% cycle depth of discharge, without any battery damage or reserve capacity required.



ZCell retains its full 10kWh of storage capacity for its warranted lifetime.



ZCell offers an unlimited shelf life & can switch off & hibernate at any state of charge, for extended periods of time.



ZCell can be used on-grid and off-grid & multiple ZCells can be connected for larger homes or businesses.



ZCell enables you to buy energy 'low' and consume when 'high' - during peak demand price periods.



ZCell allows the storage and shifting of renewables for anytime use.

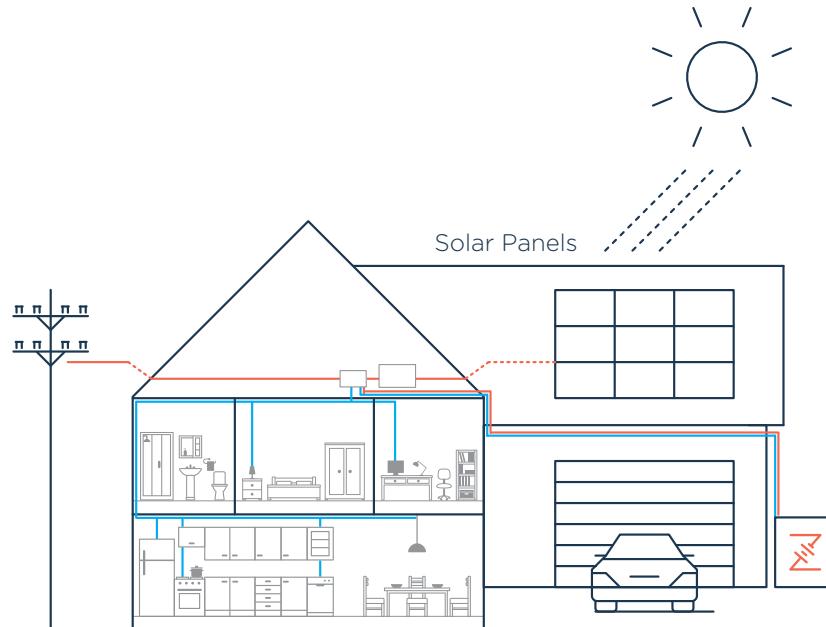
To learn more about installing ZCell in your home or business or becoming a ZCell installer, visit WWW.ZCELL.COM

Australian designed and developed ZCell components are recyclable or reusable



zcell

Powered by **redflow**
advanced energy storage



HOME BATTERY STORAGE FOR EVERYDAY, USE THE GRID AS A BACKUP

ZCell technical specifications:

- + 48 Volt DC nominal battery (typical operating range 40-60V)
- + Maximum 10kWh energy output per daily cycle
- + No reserved battery capacity requirement - full 10kWh cycle depth available
- + Warranted electrode stack lifetime 30,000 kWh energy throughput or 10 years (whichever comes first)
- + Expected electrode stack throughput 40,000 kWh
- + No cycle depth limitations - battery performance and lifetime is not sensitive to cycle depth
- + 3kW continuous: current up to 75A (40V disconnection point)¹
- + 5kW duration depending on the State of Charge (SOC): current up to 125A (40V disconnection point)^{1,2}
- + Operating electrolyte temperature range of 15-50 degrees Celsius. ZCell can typically operate at ambient temperatures outside this range for extended periods - visit the ZCell FAQ at faq.zcell.com for details

- + On-board battery management, control and monitoring system. Monitors electrolyte fluid and outside ambient temperature, cell voltage, charge/discharge current, and includes two fluid leak detectors
- + ZCell self-protects by suspending operations automatically if safe limits are exceeded. Where appropriate, ZCell will automatically return to normal operation when conditions improve
- + ZCell enclosure includes secondary electrolyte containment to accommodate the unlikely event of an electrolyte leak from the ZBM2 battery core
- + Bundled with the ZCell Battery Management System (BMS) - a WiFi/Web based configuration, control and monitoring system that interfaces one or more ZCell batteries to a range of energy inverter/charger/rectifier products. The ZCell BMS logs operating data and provides web-based system performance graphs.

¹ Values reported for ZBM2 at 100% state of health (SOH) and room temperature

² Redflow internal testing shows a 5kW supply for approximately 45 minutes before disconnection, for a ZBM2 starting at 100% state of charge (SOC)

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