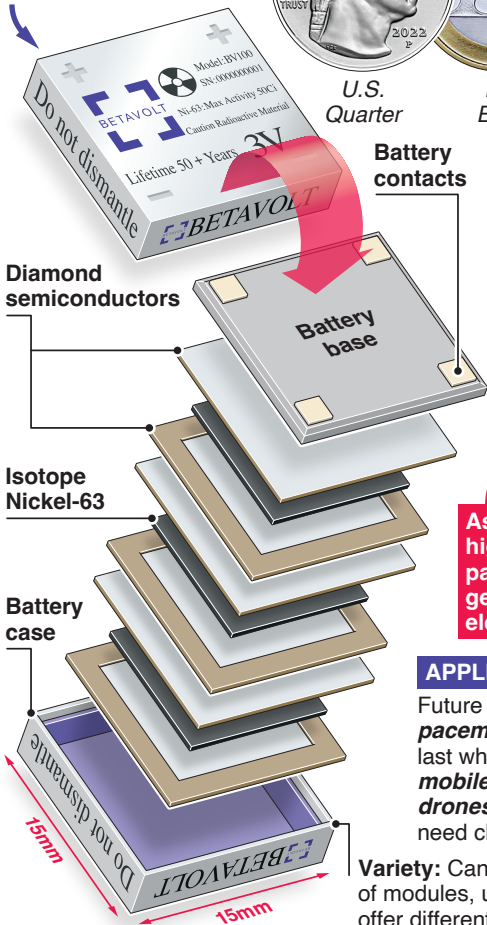


The tiny battery with a 50-year lifespan

The Chinese company *Betavolt* is mass-producing a nuclear battery that is smaller than a coin, produces no external radiation and can achieve stable power generation for 50 years without recharging

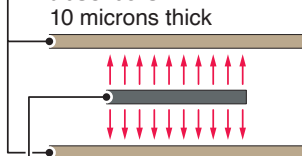
SIZE COMPARISON

Flipping battery over and opening it lets us see how it works



PHYSICS

Single-crystal diamond semiconductor absorbers
10 microns thick



Nickel-63 radioactive emitter
2 microns thick

As emitter naturally decays, high-speed electrons (beta particles) strike absorbers, generating small but stable electric current

APPLICATIONS

Future could see **pacemakers** that last whole life and **mobile phones** and **drones** that never need charging



Variety: Can be composed of any number of modules, used in series or parallel to offer different sizes and capacities