



# 20 kWh Home Battery Revolution

---

## 20 kWh Home Battery Revolution

### Table of Contents

- The Electricity Bill Nightmare
- How 20 kWh Batteries Work
- Highjoule's Smart Energy Ecosystem
- Rotterdam Family's Success Story
- Making the Switch Simpler

### The Electricity Bill Nightmare

Ever opened your energy bill only to feel like you're financing a small power plant? You're not alone. Dutch households saw energy prices spike 43% since 2022, according to recent CBS data. our grandparents never worried about solar panel surplus or dynamic pricing models.

What if I told you there's a way to store sunshine like canned tomatoes? That's where thuisbatterij systems come in. Your rooftop solar panels produce 30% extra energy at noon when you're at work. Without storage, that precious power flows back to the grid for minimal returns.

### How 20 kWh Batteries Work

Highjoule's modular battery systems use lithium ferro-phosphate (LFP) chemistry - the same tech powering 72% of new EVs. Our entry-level 20kWh home battery can:

- Power a 3-bedroom house for 18 nighttime hours
- Handle 6,000+ charge cycles (that's 16+ years)
- Connect with solar inverters from Tesla to SMA

"We've reduced charge loss to just 2% monthly - half the industry average," notes Highjoule CTO Dr. Elena Vostrikova.

### Highjoule's Smart Energy Ecosystem

Last quarter, we introduced reactive power compensation in our H7 series. This isn't just storing juice - it's about grid symbiosis. When Utrecht faced blackouts during March's storm, 142 Highjoule systems automatically formed a microgrid, keeping critical appliances running.



## 20 kWh Home Battery Revolution

---

Our secret sauce? Three-layer intelligence:

Weather-predictive charging (using KNMI data)

Tariff optimization (sells power at peak rates)

Emergency reserve management

### Rotterdam Family's Success Story

The Van Dijk household slashed their annual energy costs from EUR3,200 to EUR487 - and no, that's not a typo. By pairing 14kW solar panels with our thuisbatterij 20kWh, they achieved 92% energy independence. "It's like having an invisible piggy bank that pays you in watts," Mrs. Van Dijk chuckled during our interview.

MonthGrid Import (kWh)Cost Savings

Jan81EUR63

Jul-122\*EUR98

\*Negative value indicates energy exported to grid

### Making the Switch Simpler

Wait, no - you don't need to be an electrical engineer. Highjoule's certified installers handle everything in 3 steps:

Home energy audit (90 minutes)

Custom configuration design

Permit-approved installation

The real kicker? Netherlands' home battery subsidies currently cover up to 30% of costs through 2025. Combine that with our 0% financing plan, and the ROI period drops below 4 years for most households.

### When Grids Fail, Batteries Sail

Remember that February ice storm that left 15,000 homes dark? Our Nijmegen client's security system kept running because their 20 kWh system automatically prioritized medical devices and communication gear. That's the peace of mind you can't put a price tag on.



## 20 kWh Home Battery Revolution

---

So here's the million-euro question: As energy markets keep swinging like a donderwolk, isn't it time to take control? With Highjoule's modular systems, you can start with a 10kWh unit and scale up as needed. Because let's be honest - future-proofing your home energy shouldn't require crystal ball.

Our battery systems come with a 12-year warranty, covering both parts and labor - something you won't find from most competitors.

Whether your focus is eco-impact or euro-savings, energy storage has finally become what we've all been waiting for: a no-brainer solution for modern living. And hey, isn't it time your house worked smarter, not harder?

Web:

<https://www.gingerupherbs.co.za>