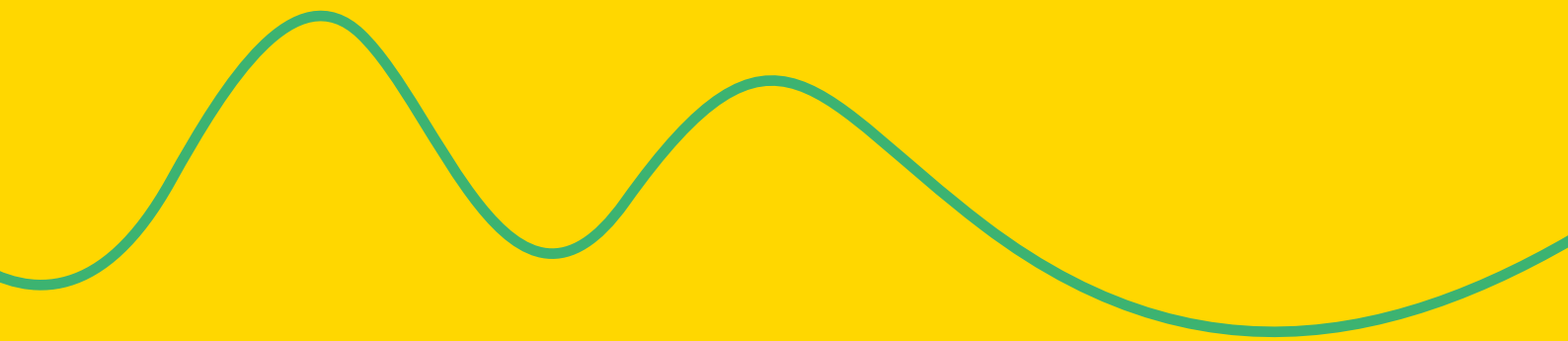


Meet the kit from Polar ESS

the affordable
energy storage
people



PRODUCT BROCHURE

Your energy independence, **sorted.**

We're Polar ESS, and we build trusty little battery storage systems that won't break the bank. Energy bills are crazy, inflation is crazy, and carbon emissions are crazy.

And home energy storage solutions can help tackle all those problems. So, we're making the tech affordable for everyone.

No more **dirty** energy. No more **daft** bills.

A Polar ESS battery storage system will help you save loads of money on your energy bills. It'll help get your home off fossil fuels.

And it will help you track and control your energy in a super easy way.

85%

potential energy bill savings per year

<1

day installation turnaround

50-60%

of the cost of the battery storage heavies

>300

/p.a. average carbon emission reduction per home

Let's get your home running cheaply and cleanly. >>

The kit.

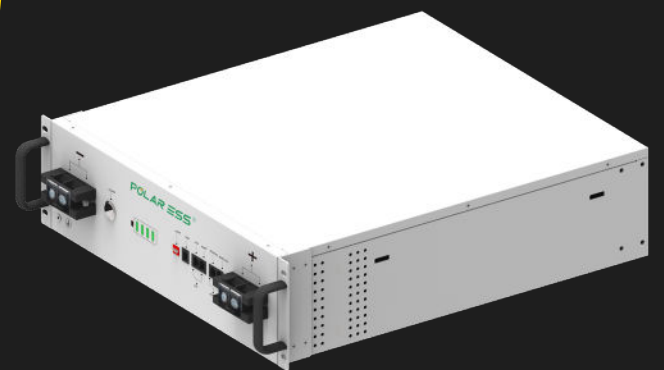
Solid products. Small price tags.

These clever fellas are the 'brains' of your energy storage system.



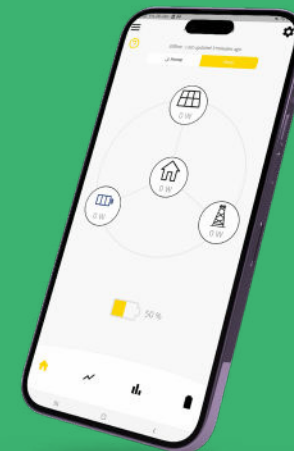
**HYBRID
INVERTER**

This corker will save you a small fortune by powering your home.



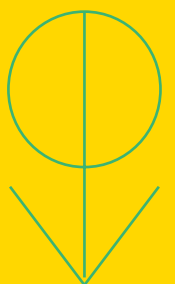
**HOME
BATTERY**

This super smart app keeps you connected and in control



**ENERGY
APP**

**Shall
we get
into the
details?**





HYBRID INVERTER

Your inverter is the computer that tracks and monitors everything.

- It'll keep talking to the grid, your battery, your software, any solar you have, and all those various bits and pieces.
- It'll also convert energy so that it's good for use in your home. (From DC to AC, to be specific.)
- If your battery is the heart pumping out energy, your inverter is the brain that keeps everything working just right.

THE FEATURES

A solar inverter and a battery inverter in one tidy little unit

Two power capacity options, to meet your power needs

Seriously high cost-performance ratio (aka, bang for that buck)

Supports voltage balancing function during charging (or passive balancing for the techies)

Displays key info like charging/ discharging voltage and current via a handy digital screen

DC/DC charging from solar for maximum efficiency

Can be installed nice and neat in a standard server rack

Supports multiple parallel operations, so you can scale as you like

Loads of inbuilt safety features

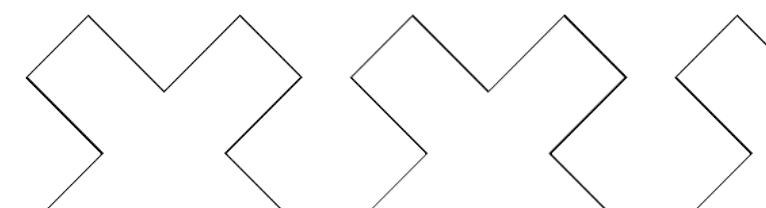
Harness up to 9kW of useful generation

HYBRID INVERTER 3.6KW

5400W max. DC power
3600W nominal AC output power
IP20 rating
Dimensions: 420W x 195D x 475H (mm)
3 year warranty

HYBRID INVERTER 6.0KW

9000W max. DC power
6000W nominal AC output power
IP20 rating
Dimensions: 420W x 195D x 475H (mm)
3 year warranty





HOME BATTERY

Your battery stores energy that can power your home.

- If you've got solar panels in place, you can charge it for free and save the sun's energy for later.
- If you've not got solar panels, use smart tariffs. On a smart tariff, your battery charges when energy is cheaper than normal. (Like overnight, or when wind farms are giving the grid loads of power.)
- Either way, that lovely cheap energy in your battery will supply your home when you need it. Bingo – you've just dodged peak rates.

THE FEATURES

6kW of power from a single battery

Clever battery reverse protection function

Seriously good cell technology – using prismatic LiFePO₄ cells

Over and under temperature protection

Fine to run as a battery-only system for charging from a cheap, split rate electricity tariff

Balancing comes built-in to the battery management system (BMS)

Able to run up to a max of 5 batteries in parallel

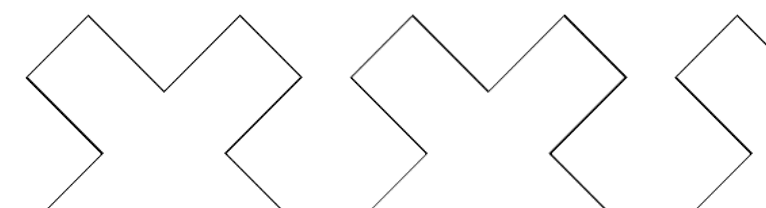
Over-charging and over-discharging protection

Short-circuit protection

Over-current protection

HOME BATTERY 5.2KWH

93% depth of discharge
Design life of 10+ years
IP20 rating
Dimensions: 505D x 134W 440H (mm)
3 year warranty



The App.

Your app lets you **manage** and **monitor** your system.

- The app is where you can grab your stats, manage your system, and get the lowdown on your home energy usage.
- It's easy-peasy to use, even for the layman.
- And it's the final part of the Polar ESS package that puts your power, in your hands. (Literally!)

THE APP

Available from Google Play or the App Store

Built and maintained by a UK dev team

Secure hosting in a best-in-class UK data centre

Updates your data every 5 minutes

Plus limited time launch offer: full app access for the first 12 months

THE FEATURES

Works hand-in-hand with your inverter and battery

Keeps tabs on any power generation

Monitors your battery's state of charge, throughput, and health

Displays handy power usage and energy usage stats

Visualises your data in nice digestible graphs

Enables remote management at the tap of a screen

Gives visibility on how much energy is going in and out of the home

Tracks how much energy you're importing and exporting via the grid

Talks to your inverter locally using the home's WiFi connection

Offers lightning fast communication



Last things last.

Let's tell you a bit about who you'll be **buying from.**



We'll keep it simple. We don't think it's right that so many billpayers are priced out of the benefits of battery storage. There's a climate crisis AND a cost of living crisis, for crying out loud.

So, we've formed Polar ESS as a scrappy challenger brand.

We're the battery storage brand for workers. For families. For retirees. For young couples. For everyone.

And we'd love to help you claim your energy freedom.

Low-cost products coming in at half the big brand price

Friendly, clued up, and headquartered in the Midlands

All our own factories, all our own products

Properly committed to making energy storage affordable

A decade of hands-on renewables R&D experience

Plucky UK disruptor brand with heart

Talk to us.

WHOLESALE ENQUIRIES

Got distribution questions? We've got answers! Pop us a little message.

sales@polar-ess.co.uk

INSTALLER ENQUIRIES

Want details about installing our kit, or some project support? We've got you.

support@polar-ess.co.uk

CUSTOMER ENQUIRIES

Your first port of call is the sparky who fitted your kit. If they're unable to help, tag-team us right in.

support@polar-ess.co.uk

MARKETING ENQUIRIES

Get in touch to talk marketing bits and pieces. We'll put crayons away, and get thinking caps on.

marketing@polar-ess.co.uk



The affordable energy storage people.

Our products are the great energy storage levellers.

We're hand-on-heart excited to be able to pull down the entry barriers to clean, low-cost home energy.

Who's with us?



www.polar-ess.co.uk
support@polar-ess.co.uk