ZenSolar



The heart of your solar system

Choosing the right solar inverter for your home or business.

Turning panel energy into usable home power

Solar panels only make direct current (DC). Lights, plugs, geysers, and almost every appliance need alternating current (AC).

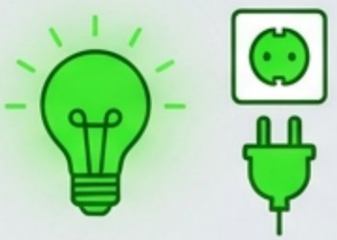
The inverter is the translator between the two.



Direct Current (DC)

MPPT: tracks the best power as the sun moves

Anti-islanding: stops feeding the grid when the grid is switched off, to keep line workers safe



Alternating Current (AC)

Finding the right inverter setup

Hybrid	Grid-tied	Off-grid
Has Battery? ✓		Has Battery? ✓ (Sized to carry the whole load)
Grid Connected? ✓	Grid Connected? ✓	
Best For: Most South African homes and businesses.	**Best For:** A site that wants solar now and has no need to store power yet (uses solar only the moment panels make it).	**Best For:** Remote sites and farms with no grid connection.

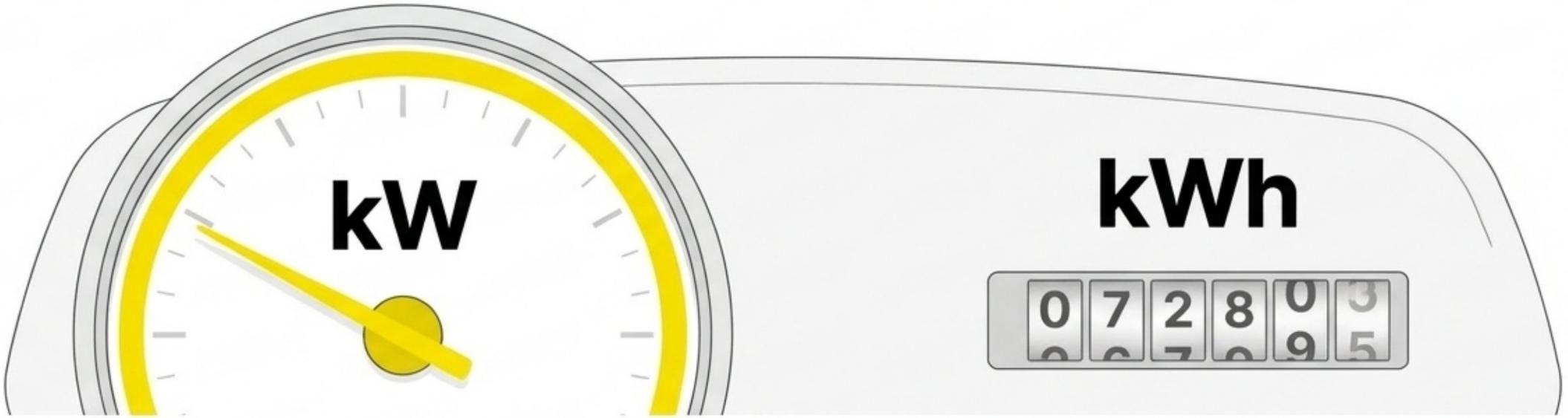
Why most South Africans choose hybrid

A hybrid inverter manages a battery, meaning you choose when to use your own stored power and when to draw from the grid.

It can start without a battery and have one added later.



Understanding your power and energy needs

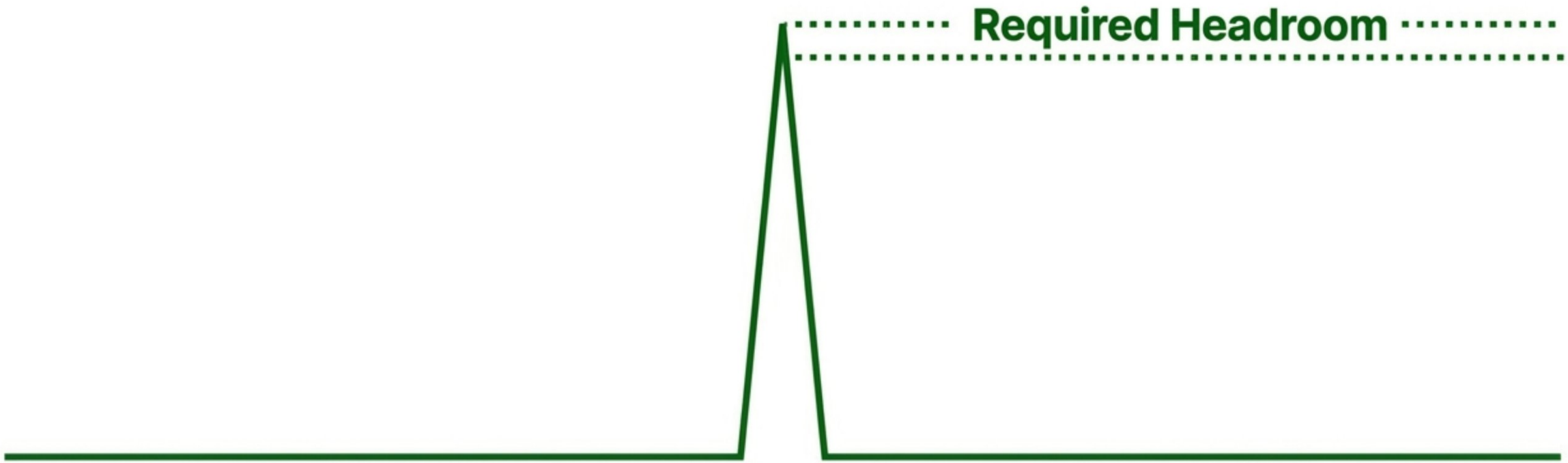


kW is how fast power is used, like a car's speed. The inverter is sized from the most your property draws at once, plus headroom.

kWh is energy used over time, like distance travelled. This is what your bill charges for. Panels are sized from how much you use in a day and how much roof you have.

Making room for the start-up jump

Motors like a borehole pump or fridge draw about three times their running power for a single second when they start. The inverter must be able to handle that jump.



Finding your property on the sizing scale

These categories are a guide. Bigger businesses use several inverters working together.



Typical home

6 to 10 kW, single phase



Large home

10 to 16 kW



Small business

30 to 100 kW, three phase



Factory

100 to 300 kW, three phase

The hidden costs of guessing

Undersized



Caps what your solar panels can actually produce.

Unsupported



Leaves you with no local backup when the brand fails.

Oversized



Money spent for nothing on capacity you don’t need.



Exact fits and premium brands

We design every system in-house so you never have to guess. Your system is perfectly matched to your property based on exact daily use, roof space, and start-up jumps.

We only fit two premium brands: **FoxESS** and **Sigenergy**. We even handle the CoC and SSEG applications for you.

Complete peace of mind



10-year swap-out warranty

on the inverter and battery.



installed by our team and preferred, vetted installers approved by the brands

Book your free energy assessment

The free energy assessment measures your real use and gives you a clear, reliable plan.

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