HANDYMAN MADEIRA

PRICE GUIDE · 2026

Solar systems in Madeira

Packages, indicative prices, payback and timeline for houses and apartments · 2026

Indicative prices, 2026 – the final price is in your written quote

The prices and savings shown here are for information and are not an offer. Your final price depends on a site survey, your roof, the cable routes and the equipment available on the island when we order. You receive a written, itemised quote before anything is agreed. Prices as of October 2026, including 22 % VAT.

Four sizes for typical Madeira homes – M, L and XL with or without a battery – plus **XL Power** for higher single-phase peaks. We size your system to your last 12 months of use, your roof and your exact location, under Madeira's self-consumption decree (DLR 9/2026/M).

From €2,500	7–10 years	5–7 weeks	+20 %
S package, incl. 22 % VAT **Indicative prices, 2026 – the final price is in your written quote**	L package, based on three scenarios; conservatively about 14 years	from contract to switch-on (up to 4 kW inverter output)	as a rule, the most your production may exceed your yearly use

How does EEM settle it?

Madeira has no net metering: you cannot store kWh in the grid and take them back later. Your system works in three steps:

- **Your own use comes first.** Solar power your home uses at the moment it is produced is power you do not buy – fewer kWh on your bill.
- **A battery stores the surplus** for the evening and night, if you have one.
- **What is left goes to the grid** and, with a contract, can be sold: under Despacho 240/2020, which the 2026 decree keeps in force for now, at 90 % of the monthly average Iberian wholesale price (OMIE, Portugal).

Selling the surplus needs a separate contract and depends on the yearly grid-feed quota; without it, the inverter can be set to zero export – we show that case too.

What is a kWh worth?

Bought from the grid, first 200 kWh per 30 days 4 % VAT, contracted power up to 6.9 kVA	**€0.178**
Bought from the grid, above that 22 % VAT	**€0.209**
Sold to the grid Jan–Jun 2026 average, illustrative, not a fixed price	**about €0.044**

Every kWh you use yourself is worth **four to five times** more than one you sell. That is why we size to your own use, and why a battery often pays off. Our examples use the Madeira ERSE simple tariff from 1 October 2026; the sale price changes every month.

Climate and microclimates

Madeira's **south coast is sunnier and drier**; on the **north coast and higher up**, more cloud and rain mean less solar production, especially in winter. On the south coast, PVGIS (EU JRC) gives about 1,340–1,621 kWh per kWp a year depending on the spot – so for your home we calculate your exact location, orientation, tilt and shading.

Packages and indicative prices

Prices are rounded up and include 22 % VAT, delivery to the island, installation, commissioning and the DREN paperwork. The "from" price applies to a pitched tiled roof in good condition, with adequate load capacity and easy access, and a standard installation; other requirements are priced in your written quote. Travel fee by zone, per visit (VAT incl.): zone A (Funchal, Câmara de Lobos, Santa Cruz) free; B (Ribeira Brava, Ponta do Sol, Machico) €30.50; C (Calheta, Santana, São Vicente) €54.90; D (Porto Moniz) €79.30 – shown in your quote.

Indicative prices, 2026 – the final price is in your written quote

Package	Yearly use	System	Inverter	Battery	Price incl. VAT indicative, 2026	Benefit in year 1	Payback	Conservative scenario[3]
S	2,150–3,550 kWh/year	1.5 kWp 3 panels	microinverter	– no battery version	**from €2,500**	about €230	**10–16 years**	about 19 years
M[1]	3,550–5,000 kWh/year	2.5 kWp 5 panels	3.6 kW hybrid	– battery-ready	**from €3,900**	about €390	**9–16 years**	about 18 years
M + battery	3,550–5,000 kWh/year	2.5 kWp 5 panels	3.6 kW hybrid	5 kWh	**from €5,100**	about €530	**9–11 years**	about 14 years
L	5,000–6,400 kWh/year	3.5 kWp 7 panels	3.6 kW hybrid	– battery-ready	**from €4,300**	about €560	**7–10 years**	about 14 years
L + battery	5,000–6,400 kWh/year	3.5 kWp 7 panels	3.6 kW hybrid	10 kWh	**from €6,700**	about €820	**7–9 years**	about 9 years
XL	over 6,400 kWh/year	4.5 kWp 9 panels	3.6 kW hybrid	– battery-ready	**from €4,700**	about €720	**6–9 years**	about 9 years
XL + battery	over 6,400 kWh/year	4.5 kWp 9 panels	3.6 kW hybrid	16 kWh	**from €7,300**	about €1,090	**6–7 years**	about 8 years
XL Power[2]	over 6,400 kWh/year	4.5 kWp 9 panels	6 kW hybrid	16 kWh + production meter	**from €8,200**	about €1,090	**7–8 years**	about 9 years

[1] M is for roofs without shade only (a technical limit of the five-panel string). [2] Under the decree, for solar systems the power threshold refers to the inverter's rated output (DLR 9/2026/M, article 2 dd)). Above 4 kW a production meter with remote reading is required (article 23), so it is part of XL Power and its cost is in the package price; the packages with a 3.6 kW inverter do not need one. XL Power helps cover higher single-phase peaks; the power and duration actually available depend on the chosen equipment and the battery's state of charge. [3] Unchanged electricity price and no surplus sold – not the worst possible outcome (see below).

S is a microinverter entry system without a battery; M, L and XL are available with or without a battery.

How we calculated

South-facing roof at about 30°, no shade; 1,500 kWh per kWp a year (PVGIS: ten south-coast sites from Calheta to Machico average 1,510; a planning assumption, not a guaranteed yield); yearly use of 2,500 / 4,000 / 5,500 / 7,000 kWh; the simple tariff from 1 October 2026. Included: the hybrid inverter's own consumption, 0.5 % panel ageing a year and an inverter replacement in year 13. As a precaution we reduce the battery's estimated extra benefit by a further 15 %, with 2 % capacity loss a year and a 15-year life; after year 15 we count no battery benefit (and no battery replacement). No grant is included.

The **payback** comes from three scenarios: electricity +2 % a year with the surplus sold; unchanged price with the surplus sold; +2 % a year without selling. In the **conservative scenario** the price does not rise and no surplus is sold; even this is not the worst possible outcome (lower production or an unexpected repair could make it longer). Battery packages depend less on selling. On the north coast and in higher, cloudier places the yield can be noticeably lower.

How big should the system be? – the 20 % rule

Under the decree (DLR 9/2026/M, article 7), as a rule a system's estimated yearly production may exceed your average yearly use over the last 12 months by no more than 20 %. For a first estimate, your town, your approximate monthly electricity bill and your roof type are enough; for detailed sizing we ask for your last 12 months of consumption (bills or smart-meter data). For a new home, a reasoned estimate is accepted.

We check the limit with a deliberately high yield (1,700 kWh/kWp a year) so it holds even in a very sunny year; that is why the consumption ranges start where they do.

With a battery, a larger system may be possible in justified cases, with technical justification and a favourable opinion from the grid operator (article 7(5), (9)).

Is it worth it? A worked example

You decide. Here is the full calculation for one home, with no grant – so you can see where the 7–10 years for the L package come from.

L package, south coast, 5,500 kWh a year, single-phase, 4.6 kVA, no battery

Production in a year (3.5 kWp × 1,500 kWh/kWp)	5,250 kWh
Used in the home as it is produced	about 2,200 kWh
Sold to the grid	about 3,040 kWh
Energy bill without → with solar incl. the inverter's own consumption (about 175 kWh a year)	€1,076 → €651
Saving on the bill	€425
Income from the surplus (3,040 kWh × €0.044)	€134
Benefit in year 1	**about €560**
Simple payback (€4,300 ÷ €559)	**7.7 years**

Price: from €4,300 · Indicative prices, 2026 – the final price is in your written quote

In reality, several things move this figure. If electricity rises 2 % a year, **7.4 years**; if the price stays the same, **7.8 years**; if you cannot sell the surplus (with +2 % a year), **9.5 years**. That is why we quote 7–10 years for L. If the price does not rise **and** you cannot sell the surplus (conservative scenario), about **14 years**. All include 0.5 % panel ageing a year and an inverter replacement in year 13.

Over 25 years, depending on the four scenarios, the system returns about €4,500–10,500 more than it cost (nominal euros, not discounted).

The same with a 10 kWh battery: from €6,700; the energy bill drops from €1,076 to €227; the year-1 benefit is about €820, because as a precaution we reduce the battery's estimated extra benefit by 15 %; payback 7–9 years, and about 9 years even in the conservative scenario.

Indicative prices, 2026 – the final price is in your written quote

For your home we run the same calculation in PVGIS for your exact location, orientation and tilt, with your consumption data; your individual quote shows the three scenarios and the conservative one.

What does the price include?

- **Panels:** monocrystalline (TOPCon) modules of about 500 W, with a manufacturer's performance warranty of at least 25 years.
- **Inverter:** single-phase hybrid inverter, 3.6 kW (XL Power: 6 kW), battery-ready, with export limiting; the S package uses a microinverter.
- **Battery** (battery packages): lithium iron phosphate (LiFePO4), typically with a 10-year manufacturer warranty; its capacity declines with use.
- **Mounting** and installation on a pitched tiled roof.
- **Protection and wiring:** the necessary DC and AC protection, cables and earthing.
- **Delivery to the island, installation, commissioning**, app set-up and handover.
- **Paperwork:** we prepare the DREN notice documents; sizing to the 20 % rule.
- **Production meter** with remote reading where required (XL Power).
- Help with the surplus-sale contract.

We do not tie the packages to one brand: your written quote names the exact models, with datasheets, certificates and the terms of the manufacturer warranties. If a component is not available, we offer one with the same or a better specification and tell you before ordering. Manufacturer warranties do not limit your statutory consumer rights. Installation is carried out by a responsible technician or a DREN-registered installer, as the decree requires (article 25).

What is not included?

- **Backup power in a power cut** (backup/EPS output with automatic changeover) – an extra. A grid-tied system switches off for safety when the grid fails; a battery on its own gives no backup.
- The yearly cost of raising your **contracted power**, if needed.
- **Switching to three-phase** and the rewiring it needs.
- Other roof types (e.g. flat roofs), scaffolding or hard-to-reach roofs – priced in your quote.
- **Grants:** prices and payback assume no grant. The regional +ENERGIA programme's application period closed on 29 August 2025; in October 2026 there is no open call. If a new call opens, we help with the application – keep your invoices and DREN documents.

Your part

- Sign the DREN notice as the self-consumer (the holder of the electricity contract).
- The civil liability insurance the decree requires – often an add-on to your home insurance.
- For a shared roof, notify the condominium administration in writing at least 20 days before; it may object within 20 days on specific grounds (article 13). We help with this.

Timeline

For systems with up to 4 kW inverter output, typically **5–7 weeks** from contract to switch-on. This is an estimate based on experience, not a committed deadline: the DREN procedure, metering conditions, material availability and the weather all play a part. The longest part is usually the legal waiting period, not the installation.

1. **Survey and written quote** · before the contract
   We look at the roof, the electrical board and your consumption, calculate the yield with PVGIS and send you a written, itemised quote.
2. **Notice to DREN** · week 1
   Above 700 W, a prior notice (comunicação prévia) to the regional energy directorate, free of charge up to 30 kW. We prepare the documents; the notice is in your name.
3. **30-day waiting period**
   If DREN does not refuse the notice within 30 days of registration, it counts as confirmed (DLR 9/2026/M, article 34). Switch-on also requires the technical and metering requirements to be met.
4. **Materials** · in parallel
   Delivery to the island usually takes 3–4 weeks, sometimes longer.
5. **Installation** · 1–2 days
   Usually during the waiting period, so we can switch on as soon as it ends.
6. **Commissioning and handover**
   We set up the system and the app and show you how to follow your production.

Above 4 kW inverter output (XL Power), a production meter with remote reading is also required; if your home's meter is not suitable, EEM must install a suitable one within 4 months (within 45 days on a paid urgent request). Selling the surplus is arranged separately; until then the system can run with zero export.

Contracted power

As a precaution we choose the inverter so it does not exceed your contracted power: a 3.6 kW inverter needs at least 4.6 kVA, the 6 kW one 6.9 kVA. Raising it costs about €39 a year (3.45 → 4.6 kVA), €90 (3.45 → 6.9 kVA) or €51 (4.6 → 6.9 kVA), VAT included. If needed, we include it in your individual calculation.

How much CO_2 does it save?

In Madeira, one kWh from the grid comes with about **0.5 kg CO_2 equivalent** (APA: 0.511 kg in 2023, 0.497 kg average 2019–2023); on the mainland 0.092 and 0.156 kg. So every solar kWh here – used or sold – replaces **three to six times as much CO_2** as in Lisbon.

Package	Production a year	CO_2 avoided a year
S	2,250 kWh	about 1.1 t
M	3,750 kWh	about 1.9 t
L	5,250 kWh	about 2.6 t
XL	6,750 kWh	about 3.4 t

The battery versions produce the same. Over 25 years the L package avoids about 60 tonnes of CO_2 (at the 2019–2023 Madeira grid average); as the island uses more renewable power, this falls. In a sunny location the system earns back the energy used to make the panels in about a year (Fraunhofer ISE). These figures are illustrative estimates, not a full life-cycle assessment.

Sources

DLR 9/2026/M (Madeira self-consumption decree; articles 2, 7, 13, 23, 25, 34) · Despacho 240/2020 · ERSE Directive 4/2026 (tariffs from 1 October 2026) · APREN market report, June 2026 · APA emission factor · PVGIS v5.3, SARAH3 2005–2023 (EU JRC) · Fraunhofer ISE · DREN, +ENERGIA (Portaria 411/2026).

Request a quote

For a first estimate, just tell us your town, your approximate monthly electricity bill and your roof type. For detailed sizing we will later ask for your last 12 months of consumption and a few photos. We usually reply within 48 hours. We communicate mainly in English, but if you don't speak English we will still find a way – we always look for a solution.

Phone & WhatsApp +351 927 582 102 **Email** info@handymadeira.com **Web** handymadeira.com