

Installation Requirements

Solarfy Solo · Solarfy Duo — plug-in solar kits for gardens and flat roofs

This summary sets out **where and how the Solarfy kits may be installed** and what the household must check and do under the GB plug-in solar rules in force since 27 August 2026. The kits are designed for **self-installation by a competent adult**: no electrician is needed where the socket circuit has RCD protection. Full procedure: **SFY-PIS-IM-001**.

SOLARFY SOLO SFY-SOLO-455-BM 455 Wp · 1 module 1 × JA Solar JAM54D41-455/LB ENA device ref. SOLAW/21640/V1 Approx. 300–400 kWh per year	SOLARFY DUO SFY-DUO-910-BM 910 Wp · 2 modules 2 × JA Solar JAM54D41-455/LB ENA device ref. SOLAW/21608/V1 Approx. 600–800 kWh per year	COMMON TO BOTH KITS Inverter Hoymiles HMS-800-2WB, 800 VA max., G98 type tested AC 5 m lead, BS 1363 moulded plug, 5 A fuse DC 1 module per MPPT input, 40.5 V Voc (inverter max. 65 V) Mount Kseng ballast frame (supplied), 20° Storage none, not for use with a battery
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1 Where the system may be installed

GARDEN, LAWN OR GRAVEL Firm, level, free-draining ground at or near ground level. Level to within about 20 mm across the footprint; on lawn or soft soil, a paving slab under each foot.	FLAT ROOF, TERRACE, GARAGE ROOF Only where the structure can carry the kit plus ballast (category B: Solo approx. 190 kg, Duo approx. 380 kg). Non-penetrating; at least 2 m from every roof edge.	NOT DESIGNED FOR <ul style="list-style-type: none"> ✗ Modules on balcony railings, walls or façades ✗ Pitched roofs of any kind ✗ Soft, sloping or waterlogged ground ✗ Over 3 m above ground without a site-specific calculation
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2 Footprint, clearances and orientation

PARAMETER	SOLO	DUO	MINIMUM CLEARANCE	DISTANCE
Frame footprint	1.80 × 1.13 m	3.65–3.75 × 1.13 m	Free air all round the inverter	100 mm
Clear space needed*	1.80 × 2.63 m	3.75 × 2.63 m	Inverter to module back	50 mm
Mass excl. ballast	approx. 32 kg	approx. 58 kg	Under the low edge of the module	100 mm
Height · design loads	0.70 m · 30 m/s wind · 1 kN/m ² snow		Behind the array to a wall or fence	500 mm
Best orientation	SE to SW · unshaded 10:00–16:00		In front of the array	1000 mm
			To any flat-roof edge or parapet	2000 mm

* Frame plus 1.0 m clear in front and 0.5 m behind (to a wall or fence). On a flat roof, keep 2 m from every edge in addition.

3 Ballast

CATEGORY	THE SITE FALLS IN THIS CATEGORY IF ALL OF THESE ARE TRUE	PER POSITION	PER MODULE	DUO TOTAL
A Sheltered	Suburban or urban · buildings or solid fences ≥ 1.5 m on the exposed sides within 15 m · ground level · below 50 m altitude · over 10 km from the coast	25 kg	100 kg	200 kg
B Standard	Open garden, yard or flat roof · ≤ 3 m above ground · below 100 m altitude · over 5 km from the coast · not on a hilltop or ridge	40 kg	160 kg	320 kg
C Exposed	Anything else: coastal, hill or ridge, above 100 m, over 3 m above ground, or a wind funnel	Not without a site-specific calculation (BS EN 1991-1-4)		

Four positions per module (two front, two rear), equal mass on each pad. Concrete slabs or precast PV ballast blocks only, no sandbags, water containers or loose bricks. **Weigh the blocks**: nominal sizes can fall short (a 450 × 450 × 50 mm slab often weighs only 22–24 kg). Ballast is not included and must be in place on installation day.

4 Electrical requirements

- ✓ **Socket circuit only.** Not a lighting circuit, and not a spur feeding fixed equipment such as a cooker or boiler.
- ✓ **Working RCD or RCBO** protecting that circuit. Press its test button while the system is generating: it must trip. If it does not, stop and call an electrician. Repeat every 6 months. Fuses with no RCD: upgrade by an electrician first.
- ✓ **One plug-in solar device per household** under current GB network rules (G98), and never two on the same final circuit.
- ✓ **Direct into a fixed BS 1363 socket-outlet** that is in good condition and grips the plug firmly.

CHECKED BY THE HOUSEHOLD BEFORE INSTALLING

- ✓ **No extension leads or adaptors** of any kind: no multi-way, travel or RCD adaptors, plug converters, timers or smart plugs. The 5 m lead cannot be extended.
- ✓ **Inverter always outdoors** — on the frame, or on an outside wall near the socket via Solarfy DC extension pairs (2/5/10 m). No cable through a closed window or door; outdoor IP66 socket or sealed wall entry by an electrician.
- ✓ **Consumer-unit label** (supplied) fitted next to the circuit's protective device. Installation of unknown age or condition: EICR first.

WHO DOES WHAT

Household: assemble and ballast the frame, fit modules and inverter, plug the DC connectors, route the AC lead, plug in, fit the label, register.

Electrician only (Competent Person Scheme, BS 7671): work in the consumer unit, new or outdoor sockets, circuits, wall entries for cables.

5 Prohibited installations

FIRE SAFETY

- ✗ On or against ACM, MCM, HPL or timber cladding systems
- ✗ On timber balconies of any construction
- ✗ On any building undergoing external wall or building-safety remediation
- ✗ Blocking escape routes, fire exits or fire-service access
- ✗ Fixed to or leaning on a boundary wall or fence between dwellings

SYSTEM

- ✗ Connection to, or use alongside, a battery energy storage system of any kind
- ✗ DC Y-connectors, or modules connected in series
- ✗ DC extensions other than Solarfy pairs (Stäubli MC4-EVO2A, max. 10 m, never joined); DC cables indoors or through walls
- ✗ Modifying frame or module, opening the inverter, improvised fixings
- ✗ Bonding to a lightning protection system (keep BS EN IEC 62305-3 distance)

6 Household duties and registration

DUTY	REQUIREMENT
Registration	Register at myplugin.solar (ENA) within 28 days of connecting ; no prior approval. Tell the network operator on removal.
Landlord	Written permission from landlord or freeholder if rented, leasehold or managed.
Planning	Check with the local authority in a conservation area or on a listed building.
Insurance	Inform the home insurer before installing.

EXPORT AND METERING

Generation is used in the property first; only the momentary surplus flows to the grid. As self-installed kits without MCS certification they are **not currently eligible for Smart Export Guarantee payments**, so Solarfy savings figures count self-consumption only. On loss of mains the inverter disconnects within 0.5 s (BS EN 62116).

REGISTRATION DATA	VALUE
Device · model	Solarfy Solo / Solarfy Duo
ENA register ref.	SOLAW/21640/V1 · SOLAW/21608/V1
Inverter · type test	HMS-800-2WB · TRP-26082101
Registered capacity	0.8 kW, single phase, 1 unit
Energy storage	None
PV array power	455 Wp (Solo) · 910 Wp (Duo)

COMPLIANCE DOCUMENTS AVAILABLE

- Signed declaration of conformity: Plug-in Solar Device Interim Product Specification v2.0
- ENA Type Test Register entries for both kits
- G98 report TRP-26082101 · UKCA/CE inverter · JA Solar and TÜV Rheinland certificates
- Assembly & User Instructions SFY-PIS-IM-001 Rev 2.0

Regulatory basis: Plug-in Solar Device Interim Product Specification v2.0 (DESNZ, July 2026) · SI 2026/848 · BS 7671:2018+A4:2026 · ENA Engineering Recommendation G98 Issue 2:2025. Kits with supplied Kseng mount and Solarfy cables only. Summary; SFY-PIS-IM-001 prevails. Yields indicative.