



SAFETY, INSTALLATION & OPERATING MANUAL

READ BEFORE USE - Read this manual in full before assembling, installing, connecting, operating, moving, maintaining or decommissioning the product.

CONTROLLED CONFIGURATION - Compliance applies only to the complete UKSOL-specified product configuration. Do not substitute, extend, modify or add components unless expressly approved by UKSOL.

Keep this manual for the lifetime of the product and pass it to any subsequent owner or user.

This controlled manual covers both UK-G Ground Mount and Hybrid Mount configurations.

The UK-G controlled assembly drawing is reproduced in Appendix A. Hybrid Mount requirements are included in Section 12 and Appendix B and must be followed together with the exact UKSOL-supplied Hybrid Mount drawing for the purchased kit.

1. Scope, product description and intended use

The UKSOL Plug-In Solar Pro is a single-phase plug-in solar photovoltaic generating product for use in domestic electrical installations in Great Britain.

Depending on the model, the product comprises one or two UKSOL photovoltaic modules, one APsystems EZ1-M microinverter, the specified UKSOL mounting system, DC connection components, the supplied AC connection cable and factory-fitted UK mains plug, protective caps/covers, cable-management components, connector release tool, labels and customer documentation.

IMPORTANT - The product **MUST** be assembled, installed, connected and operated only in the exact configuration specified by UKSOL.

1.1 Controlled product configuration

- Use one APsystems EZ1-M microinverter only.
- Do not install a second microinverter or connect, parallel or daisy-chain microinverters.
- Do not substitute another inverter.
- Do not add PV modules beyond the supplied UKSOL configuration.
- Do not use PV splitters or Y-connectors.
- Do not alter certified protection functions, firmware settings or the UKSOL-approved maximum AC output configuration.
- Maximum AC output of the supplied Plug-In Solar Pro configuration must not exceed 800 VA.

MAXIMUM PV CAPACITY - The total maximum combined PV module DC power permitted within the Plug-In Solar framework is 2,000 W. This does not permit additional modules to be added to a UKSOL kit. Use only the PV module(s) supplied or expressly approved by UKSOL for the exact controlled product configuration.

The two DC inputs on the EZ1-M are independent PV input/MPPT channels on the same microinverter.

2. Safety information

DANGER - ELECTRICAL HAZARD - PV modules generate DC electricity whenever sufficient light reaches them. Treat PV modules, DC cables and DC connectors as potentially live whenever exposed to daylight.

NEVER DISCONNECT UNDER LOAD - Never disconnect PV/DC connectors while they are carrying current. Doing so can cause electrical arcing, burns, electric shock, connector damage or fire.

For normal isolation, leave the PV/DC connections connected. Switch off the AC supply at the socket, wait a minimum of two minutes and remove the mains plug by holding the plug body.

HOT SURFACES - PV modules and the microinverter may become hot during or after normal operation. Allow components to cool before handling.

DAMAGED EQUIPMENT - Do not assemble, install, connect or operate damaged equipment. Stop using the product if safety-critical damage, overheating, looseness, water ingress or abnormal operation occurs.

- Keep children and pets away during assembly and where foreseeable contact with the equipment could create a hazard.
- Do not stand, sit, kneel or walk on a PV module.
- Do not open the microinverter. The product contains no user-serviceable inverter parts.

3. Before installation

- Read this manual in full.
- Identify the exact UKSOL model, SKU and mounting system supplied.
- Inspect all components for damage or missing parts.
- Select a suitable installation location.
- Check the proposed socket and household electrical installation.
- Identify the final circuit supplying the proposed socket.
- Check whether other Plug-In Solar generation or other generation is already installed.
- Obtain any property permissions, consents or approvals required.
- Check relevant building/home insurance conditions.
- Determine and follow the exact mounting, fixing and ballast requirements for the supplied mount.

DO NOT PROCEED - Do not assemble, install or connect the product where any required safety condition cannot be satisfied.

4. Property, building and location restrictions

Before installation, obtain any necessary permission from the property owner, landlord, freeholder, managing agent or relevant authority. Obtain planning permission or Listed Building Consent where applicable and check relevant insurance conditions.

PROHIBITED LOCATIONS - Do not install on ACM cladding, MCM cladding, HPL cladding, timber cladding or timber balconies. Do not install on a building subject to external-wall or building-safety remediation restrictions.

Do not fix PV modules to a wall or part of a building forming a property boundary between separate dwellings. Keep escape and rescue routes clear. Where wall, balcony or external-surface construction is uncertain, obtain competent advice before installation.

- Do not install in areas prone to flooding or standing water.
- Do not install where vehicles, machinery, garden equipment or routine access could strike or damage the product.
- Do not install during thunderstorms, high winds or severe weather.
- Do not install in unusually corrosive or aggressive chemical environments unless UKSOL has confirmed suitability.

Where a building has an external lightning-protection system, maintain the necessary separation from lightning-protection conductors and down conductors. Do not attach the product to a lightning-protection conductor.

5. Electrical installation suitability

The Plug-In Solar Pro MUST be connected only to a suitable UK socket-outlet on an appropriate final circuit in an electrical installation that is in good condition and has suitable circuit protection and residual-current protection.

ELECTRICAL ASSESSMENT REQUIRED WHERE UNCERTAIN - If the socket, final circuit, consumer unit, protective devices, wiring, earthing or general condition of the electrical installation is damaged, unclear, unsuitable or of unknown condition, obtain assessment by a qualified electrician before connection.

Any alteration to fixed household wiring, circuit protection, socket-outlets or the consumer unit must be carried out by a qualified electrician.

There is no maximum age of property or household wiring stated here; suitability is determined by condition and adequacy.

5.1 Products above 960 W PV capacity

Where total maximum PV module power is greater than 960 W, UKSOL advises the customer to consider professional assessment of the electrical installation before installation, particularly where there is uncertainty about the consumer unit, protective devices, socket condition, wiring, earthing or general condition.

6. Identify the correct final circuit

A household final circuit may supply several socket-outlets. Socket-outlets protected by the same circuit protective device are normally on the same circuit.

Where it can be done safely using a modern, clearly labelled consumer unit, the relevant circuit may be identified by switching off its protective device and checking which socket-outlets lose power. Restore the circuit after identification.

DO NOT OPEN THE CONSUMER UNIT - Do not remove consumer-unit covers or work on internal electrical components. If the circuit arrangement is unclear, obtain advice from a qualified electrician.

Connect only to a suitable socket circuit. Do not connect to a lighting circuit or to a circuit/spur supplying fixed equipment such as a cooker or boiler.

7. Number of Plug-In Micro-generators

CURRENT G98 PLUG-IN ROUTE - Only one separate Plug-In Micro-generator may be connected at a Customer's Installation using the current G98 Plug-In Micro-generator connection route. Do not install or operate a second separate Plug-In Solar product at the property under this route.

No more than one inverter up to 800 VA may be connected to the applicable household final circuit. Where other generation is already installed at the property, follow the applicable G98 requirements and obtain competent advice where necessary.

8. Plug, AC cable and socket requirements

CONTROLLED CONNECTION ASSEMBLY - The factory-supplied AC cable and factory-fitted moulded plug form part of the controlled UKSOL product configuration.

- DO NOT cut, shorten, extend, lengthen, splice, join, repair or re-terminate the supplied AC cable.
- DO NOT remove, replace, modify, rewire or re-terminate the factory-fitted plug.
- DO NOT use extension leads or cable reels.
- DO NOT use multi-way adaptors, RCD adaptors, travel adaptors, plug splitters or other unauthorised intermediary connection devices.
- If the supplied cable cannot reach a suitable socket without alteration, choose another suitable location or obtain appropriate electrical advice.
- Do not use a socket that is cracked, loose, damaged, burnt, discoloured, wet, overheating or otherwise unsuitable.
- Keep the mains plug accessible for isolation.

9. Unpacking and handling

Inspect PV module glass and frames, module cables, DC connectors, mounting components, fasteners, microinverter, AC connector, AC cable, plug and protective caps/covers. Do not use damaged or missing equipment.

PV modules are large and may require two-person handling. Lift using the frame. Do not lift by cables/connectors, drop the module, place heavy objects on the glass or place the module on an unstable or abrasive surface.

10. Mounting-system selection

USE ONLY THE SUPPLIED MOUNT - Use only the mounting system supplied for the exact Plug-In Solar Pro model. Do not substitute, improvise, drill additional holes in the PV module frame or alter the approved mounting arrangement.

11. UK-G Ground Mount assembly and installation

The controlled UK-G CAD assembly drawing is reproduced in Appendix A and forms part of these instructions.

11.1 Prepare the location

Install on a flat, level, firm, stable and suitably drained surface. Where installed over grass or soil, use a suitable weed-control membrane beneath the installation area. Keep the system clear of escape routes, pedestrian hazards, standing water and foreseeable cable-damage risks.

11.2 Assembly steps

- Step 1 - Position the PV module as shown and raise/open the pre-fitted support sections. Keep fingers clear of hinges, folding sections and pinch points.
- Step 2 - Position the lower support/base component exactly as shown and align the fixing points.
- Step 3 - Install the supplied retaining fixings in the positions shown. Check both support sections, all fixings, frame alignment and overall stability.
- Step 4 - Install the required ballast before operation. Use 18 kg dense concrete ballast blocks positioned across the lower ballast support as shown in Appendix A.
- Step 5 - Install the one supplied EZ1-M at the designated position using the supplied fixing and washer.

11.3 UK-G ballast requirements

Foreseeable wind-gust band	Minimum 18 kg dense ballast blocks
>40 mph	2
>60 mph	5
>80 mph	10

BALLAST REQUIRED - Do not operate the UK-G Ground Mount without the required ballast. Do not reduce the specified ballast or substitute significantly lighter blocks. Do not place ballast on cables or against the microinverter.

11.4 Microinverter mounting and ventilation

5 mm MINIMUM AIR GAP - Use the washer provided to maintain a minimum 5 mm clear air gap between the microinverter casing and the mounting frame.

Ensure the microinverter is securely fixed, natural airflow is unobstructed, cables are not trapped, vegetation cannot obstruct the inverter and the inverter is clear of standing water. Do not cover the microinverter.

12. Hybrid Mount

CONTROLLED DRAWING REQUIRED - Use only the controlled Hybrid Mount assembly drawing supplied for the exact UKSOL product configuration. The controlled Hybrid Mount instructions are incorporated in Appendix B and must be followed for the purchased kit.

CONTROLLED HYBRID CONFIGURATION - Use only the UKSOL Hybrid Mount supplied for the exact model/SKU. Do not substitute brackets, rails, fasteners, fixings or mounting geometry.

The Hybrid Mount is the UKSOL multi-purpose mounting configuration for ground or suitable solid-wall installation. It is not a balcony mounting system.

12.1 Before assembly

- Identify whether the kit is to be installed as a ground-mounted or solid-wall-mounted Hybrid configuration.
- Confirm the exact model/SKU and use the matching UKSOL Hybrid Mount drawing supplied for that kit.
- Inspect brackets, bolts, washers, nuts, rails/supports and the PV module frame for damage, distortion or missing parts.
- Do not drill additional holes in the PV module frame or mounting components.
- Do not improvise, substitute or combine the Hybrid Mount with another mounting system.

12.2 Hybrid Mount assembly

- Lay out the supplied brackets, supports, bolts, washers and nuts and compare them with the UKSOL-supplied Hybrid Mount drawing before assembly.
- Fit each bracket and support only in the position and orientation shown in the controlled Hybrid Mount drawing for the purchased kit.
- Insert the specified bolts, washers and nuts in the sequence shown. Do not omit washers, reverse bracket orientation or substitute fasteners.
- Where the controlled Hybrid Mount instruction identifies a tightening torque of 12 Nm, tighten only those identified fasteners to 12 Nm.
- Before fitting or positioning the PV module, check that all required supports are present, joints are fully seated and the mount is stable.

DO NOT GUESS TORQUE OR FIXING POSITIONS - If the correct Hybrid Mount drawing is missing, illegible or does not clearly match the supplied hardware/model, stop installation and contact UKSOL before proceeding.

12.3 Hybrid ground installation

For ground use, position the Hybrid Mount on a firm, stable, level and suitably drained surface. Keep the installation clear of escape routes, pedestrian hazards, standing water and foreseeable cable-damage risks.

Where the Hybrid Mount is installed on the ground without permanent expansion-bolt fixing, ballast may be positioned only on the lower mounting feet/base members in the locations shown in the applicable Hybrid Mount instructions.

HYBRID BALLAST - Ballast must be sufficient for the installation location and expected wind conditions. Do NOT apply the UK-G >40 / >60 / >80 mph ballast table to the Hybrid Mount unless UKSOL has specifically confirmed that table for the exact Hybrid configuration.

Where the required Hybrid ballast or fixing arrangement cannot be confirmed, do not install or operate the product in a ballasted Hybrid configuration.

12.4 Hybrid solid-wall installation

SOLID WALL ONLY - Wall installation is permitted only where the exact UKSOL Hybrid product/configuration is approved for wall installation and the supporting wall and fixings are suitable for the loads imposed.

- Do not install on ACM, MCM, HPL or timber cladding, or on timber balconies.
- Do not install on a wall forming a property boundary between separate dwellings.
- Do not install on a building undergoing external-wall, building-safety or fire-safety remediation.
- Keep escape and rescue routes clear and do not position the module so that it unnecessarily increases the risk of fire spread along an external wall, between dwellings or to a neighbouring property.
- Where wall construction, substrate, fixing suitability, structural condition or imposed loads are uncertain, obtain competent advice before installation.

Use only wall fixings suitable for the wall construction and loads and install them in the positions shown by the controlled UKSOL Hybrid Mount instructions. Fixed wiring must not be altered as part of the mounting work.

12.5 Fit the PV module and check the mount

- Position and secure the PV module exactly as shown in the applicable Hybrid Mount drawing.
- Do not clamp, drill, distort or load the module frame outside the approved mounting arrangement.
- Check the module is fully supported, all fasteners are secure, no sharp edge can damage a cable and the completed assembly cannot tip, slide, detach or move under foreseeable use.

12.6 Install the microinverter

Install the one supplied APsystems EZ1-M at the position identified in the applicable Hybrid Mount instructions. Ensure secure fixing, unobstructed natural cooling, no trapped or strained cables and no contact with standing water.

AIRFLOW AND WATER - Do not cover the microinverter or install it where water can collect around the enclosure or connectors. Maintain the clearance and orientation shown in the UKSOL Hybrid Mount instructions.

12.7 Hybrid final mechanical check

- Correct Hybrid Mount and exact model/SKU confirmed.
- All brackets/supports are installed in the correct orientation.
- All specified bolts, washers and nuts are present.
- Any fasteners identified as 12 Nm have been tightened to 12 Nm.
- Ground installation: correct Hybrid ballast/fixing arrangement confirmed and installed.
- Wall installation: wall type, wall fixings and load suitability confirmed.
- PV module is secure and undamaged.
- Microinverter is secure, ventilated and clear of standing water.
- Cables are supported, protected and cannot rub on sharp edges.

DO NOT CONTINUE - Do not make the PV/DC or AC connections if the Hybrid Mount is incomplete, unstable, incorrectly fixed or if any mounting requirement is uncertain.

13. PV/DC connections

APPROVED DC CONNECTORS - The EZ1-M connection arrangement uses MC4-type PV/DC connections. Use only the factory-supplied or UKSOL-approved compatible connector/extension components for the exact kit. Do not mix connector types or manufacturers, substitute look-alike connectors, or mate connectors that are not expressly approved as compatible. The controlled technical file retains the applicable IEC 62852 connector conformity evidence.

LIVE IN DAYLIGHT - PV modules can produce electricity whenever exposed to sufficient light. Before connection, ensure connectors are clean, dry, undamaged and compatible.

Push approved connections fully together until correctly engaged. Do not modify connectors.

13.1 Single-panel kits

Connect the supplied PV module to the inverter input specified by UKSOL. Protect the unused inverter input using the specified protective cap/cover. Do not connect another PV module to the unused input.

13.2 Two-panel kits

Connect each specified PV module to its applicable independent inverter input. Ensure both connections are fully engaged. Do not connect additional modules, splitters or Y-connectors.

14. Cable routing

Route cables so they are supported and protected from mechanical damage. They must not be under excessive tension, crushed, trapped, rubbing against sharp edges, creating trip hazards, positioned where garden equipment may damage them, buried in the ground or left in standing water. Maintain suitable bend radii and strain relief.

15. AC connection

DO NOT PLUG INTO THE HOUSEHOLD SOCKET YET - Complete the mechanical assembly, DC connection, AC lead connection and final pre-connection inspection before energising the product.

Inspect the AC connector and cable, then connect the supplied AC lead to the microinverter using the supplied arrangement. Ensure the connection is fully engaged and secure. Do not continue if any connector, insulation, cable or plug is damaged.

16. Final pre-connection inspection

- ☐ Correct UKSOL model/SKU and mounting system installed.
- ☐ Specified fixings and ballast installed and mounting system stable.
- ☐ PV module(s) secure and undamaged.
- ☐ One microinverter only installed.
- ☐ Microinverter correctly mounted; UK-G 5 mm minimum stand-off maintained where applicable.
- ☐ Correct PV module(s) connected; unused inverter input protected on single-panel kits.
- ☐ Connectors fully engaged; cables supported, protected and undamaged.
- ☐ AC connector secure; factory cable and plug unmodified.
- ☐ Intended socket undamaged, dry and suitable.
- ☐ No extension lead, cable reel, multi-way adaptor, RCD adaptor, travel adaptor or plug splitter.
- ☐ Correct final circuit identified.
- ☐ No second separate Plug-In Micro-generator installed at the property under the current G98 Plug-In route.
- ☐ Consumer-unit warning label available for fitting.

DO NOT CONNECT - Do not plug in the product if any required check cannot be completed or if there is any doubt about electrical or mechanical safety.

17. Connecting and first operation

When all checks are complete, ensure the plug and socket are clean and dry, then insert the manufacturer-supplied plug fully into the selected suitable socket. Do not force the plug. Keep the connection accessible.

The APsystems EZI-M has two independent MPPT inputs, natural-convection cooling and integrated Wi-Fi/Bluetooth communication. The UKSOL product configuration is supplied so maximum AC output does not exceed 800 VA.

DO NOT MODIFY - Do not open or replace the microinverter, alter certified protection functions, alter output settings or otherwise change the approved UKSOL product configuration.

Use AP EasyPower for normal customer setup and monitoring. The app may display current power, generated energy, PV-channel information, operating status, communication status and fault information.

Some configurations contain more than 800 W of installed PV module capacity. Available PV power above the inverter's instantaneous conversion capability is automatically limited by the inverter ('clipping'); this does not increase the approved maximum AC output.

18. Battery energy storage

BATTERY WARNING - The Plug-In Solar Pro covered by this manual is not intended to be connected to, operated with or used in conjunction with a battery energy storage system.

Do not connect through a battery inverter, portable power station, UPS, battery AC output or alternative generating source. Where battery storage is already installed and interaction is uncertain, obtain competent advice before connection.

19. Consumer-unit warning label

Affix the supplied Plug-In Solar warning label at or near the consumer unit in a clearly visible position. Do not remove the label while the product remains installed. If the consumer unit is replaced or relocated, a replacement Plug-In Solar warning label must be produced and fitted.

20. DNO notification - G98 Plug-In Micro-generator route

NOTIFICATION REQUIRED - Notify the relevant Distribution Network Operator no later than 28 days, inclusive of the day of commissioning, using the applicable G98 Plug-In Micro-generator notification process, including Form B2 or Connect Direct where applicable.

Use the exact UKSOL model/SKU and product information for the installed kit and retain confirmation of notification. If the product is permanently decommissioned, notify the DNO using the applicable decommissioning process.

SCAN FOR UKSOL DNO / G98 GUIDANCE - Use the UKSOL Plug-In Solar guidance page to support the notification process. Always follow the current DNO/G98 process and use the exact ENA-listed UKSOL model/reference for the installed kit.



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21. Protective-device testing

Where the socket circuit is protected by an RCBO/RCD, follow the protective-device manufacturer's periodic TEST-button instructions.

For the Plug-In Solar protective-circuit check described in the controlled UKSOL instructions, carry out the test while the Plug-In Solar Pro is producing power. The protective device should trip immediately.

IF THE DEVICE DOES NOT TRIP - Stop using the Plug-In Solar Pro and contact a competent electrician to assess the protective device and electrical installation. Do not remove the consumer-unit cover.

22. Normal isolation

- Switch off the AC supply at the wall socket.
- Wait a minimum of two minutes.
- Remove the AC plug by holding the plug body; do not pull the cable.
- Leave the PV/DC connections connected.

REMEMBER - PV modules may continue to generate DC electricity while exposed to daylight.

23. Connector release tool and necessary DC disconnection

The supplied connector release tool is intended only for releasing the applicable PV/DC connector where DC disconnection is necessary. Keep it with this manual. It is not required for normal isolation.

NEVER DISCONNECT UNDER LOAD - Do not use the connector release tool to disconnect a PV/DC connector while it is carrying current.

Before any necessary DC disconnection, switch off the AC supply, wait at least two minutes, unplug the AC connection and ensure the DC connection can be made safe. Do not use screwdrivers, pliers, knives or improvised tools and do not separate connectors by pulling their cables. If safe disconnection cannot be established, contact UKSOL or a competent person.

24. Faults and emergency isolation

STOP USING THE PRODUCT - Isolate the product if the plug or socket becomes unusually hot, there is a burning smell, the plug/socket becomes discoloured or loose, a cable or connector is damaged, PV glass breaks, the mounting system becomes unstable, water enters an electrical connection, the inverter is damaged or abnormal operation occurs.

Where safe to do so, switch off the socket, wait at least two minutes and unplug. Do not disconnect PV/DC connectors under load. Keep people away from damaged equipment and contact UKSOL before reconnecting.

Do not repeatedly reconnect visibly damaged or abnormal equipment and do not modify protection settings to clear a fault.

25. Severe weather

SEVERE WEATHER - If a severe weather warning is issued for the area, and the installation is designed to be portable, isolate and remove the product to a safe sheltered location before severe weather arrives where it is safe and practicable to do so.

Do not attempt to move, dismantle or retrieve the product once severe weather or high winds have started. Correct ballast/fixing requirements apply at all times and are not replaced by the severe-weather removal instruction.

After severe weather, inspect the PV module(s), mount, ballast/fixings, microinverter, cables, connectors, plug and socket before reconnecting.

DO NOT REINSTALL - Do not reinstall or reconnect if any component is damaged or displaced or if the location is no longer suitable.

26. Inspection and maintenance

UKSOL requires a visual inspection at least weekly and after severe weather, impact, movement or any event that may have caused damage or displacement. The inspection is visual only.

- Check PV module glass for cracks, chips or damage.
- Check frames and mounting structure for distortion, movement or damage.
- Check visible fixings and ballast for movement, removal or displacement.
- Check the microinverter is secure and visibly undamaged; for UK-G confirm the washer/5 mm clearance remains in place.
- Check cables for cuts, abrasion, crushing, trapping or excessive strain.
- Check cable clips/supports and accessible connectors for damage or movement.
- Check the AC cable, plug and socket for damage, looseness, overheating or discolouration.
- Check for water ingress and standing water.
- Keep vegetation and objects clear of the microinverter, cables, ballast and mounting components.

ROUTINE INSPECTION - Do not disconnect PV/DC connectors as part of routine inspection. Never disconnect PV/DC connectors under load.

Clean PV modules only when necessary using clean water and a soft, non-abrasive method. Do not use abrasive cleaners, sharp tools or high-pressure water on the inverter or electrical connectors.

27. Moving, replacement and modification

Before moving the product, isolate the AC supply in accordance with Section 22. Do not lift or move the product using cables, connectors or the microinverter. After relocation, repeat mounting, electrical-suitability and pre-connection checks and update DNO information where required.

NO UNAPPROVED SUBSTITUTION - Do not substitute PV modules, microinverters, AC connection cables, plugs, protective caps, connectors or mounting components with unapproved alternatives. Contact UKSOL before replacing safety-critical components.

28. Decommissioning and disposal

For permanent decommissioning: switch off the AC supply, wait at least two minutes, unplug, do not disconnect DC connectors under load, dismantle only using a safe procedure, remove the consumer-unit Plug-In Solar label once no Plug-In Solar device remains, and notify the DNO.

Do not dispose of electrical/electronic components with ordinary household waste. Use an appropriate WEEE route. PV modules should be taken to an appropriate recycling or waste-management route.

29. Product record and traceability

Model: _____
 SKU: _____
 PV capacity (W): _____
 Microinverter serial number: _____
 PV module serial number 1: _____
 PV module serial number 2: _____
 Date purchased: _____
 Retailer: _____
 Date commissioned: _____
 DNO: _____
 DNO notification reference: _____

29.1 Environmental operating limits

APsystems EZ1-M microinverter: operating ambient temperature -40 °C to +65 °C; enclosure rating IP67; operating relative humidity 4% to 100%; maximum operating altitude below 2,000 m. Install only in the orientation and location specified by UKSOL, with natural airflow unobstructed and no standing water around the inverter or connectors. The PV module and mounting system must also remain within their applicable controlled environmental and structural limits.

30. Compliance, standards and conformity

The UKSOL Plug-In Solar Pro is supplied for installation in Great Britain and is documented against the applicable controlled product requirements, including the DESNZ Plug-in Solar Device Interim Product Specification Version 2.0 and applicable ENA Engineering Recommendation G98 Plug-In Micro-generator requirements.

Applicable technical framework retained in the UKSOL technical file includes, as applicable: DIN VDE V 0126-95:2025-12; BS 7671:2018+A4:2026; BS 1363-1; BS 1363-2; BS 1362; BS EN IEC 62109-1; BS EN IEC 62109-2; BS EN 62116; BS EN 50549-1 / EN 50549-1; BS EN 62852; BS EN 50618; BS EN IEC 61000-6-1; BS EN IEC 61000-6-3; and applicable PV module safety, construction and fire-performance requirements.

Where DIN VDE V 0126-95 and DESNZ IPS v2.0 differ, the UK-specific requirements of DESNZ IPS v2.0 take precedence for this product.

CONFORMITY CONDITION - Compliance applies to the complete controlled UKSOL Plug-In Solar Pro configuration when assembled, installed, connected and operated in accordance with UKSOL instructions. Unauthorised modification or substitution may take the product outside the configuration assessed by UKSOL.

ENA/G98 registration and type-test evidence support grid-connection compliance; they do not replace UKSOL's complete-product safety and manufacturer obligations under the applicable Plug-In Solar product framework.

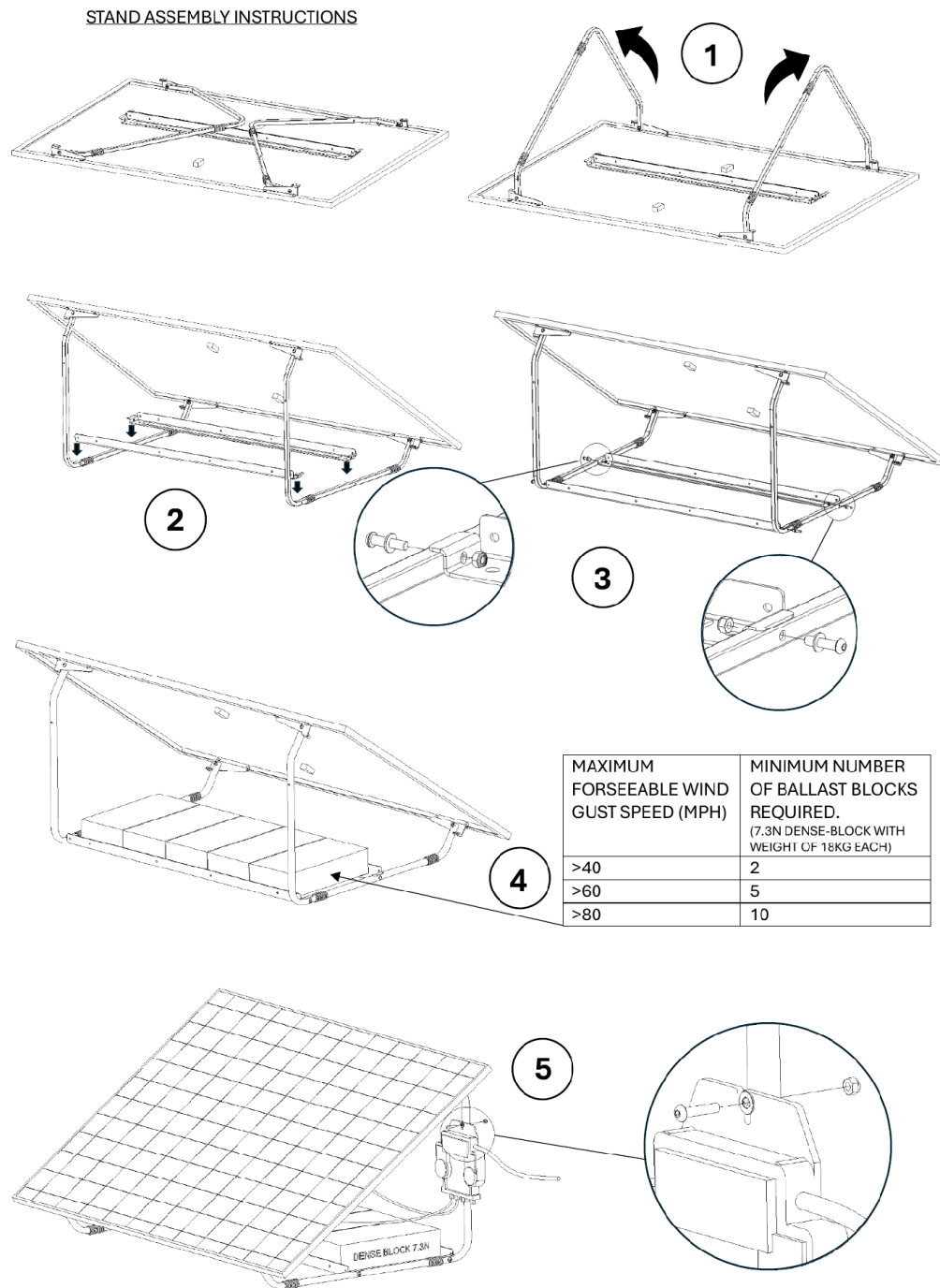
31. UKSOL support

UKSOL Ltd
 1 Chalfont Park, Gerrards Cross, Buckinghamshire, SL9 0BG, United Kingdom
 Telephone: +44 (0)1753 910327
 Email: care@uksol.uk
 Website: www.uksol.uk

When requesting support, provide the product model, SKU, microinverter serial number, a description of the issue and photographs where relevant.

Appendix A - Controlled UK-G Ground Mount CAD Assembly Drawing

This drawing is reproduced from the controlled UKSOL Stand Assembly Instructions source. Follow the numbered sequence and ballast table shown. The written safety requirements in this manual remain mandatory.



Appendix B - Hybrid Mount Installation Manual

Controlled source artwork incorporated at high resolution. The following pages reproduce the UKSOL Hybrid Wall & Ground Mount System manual supplied for this product family. The mandatory safety controls in Sections 1-30 of this manual remain applicable and take precedence where they impose an additional restriction.



Packing List

Note: The installation method should be selected based on the application scenario. The tightening torque for fasteners is 12N·m.

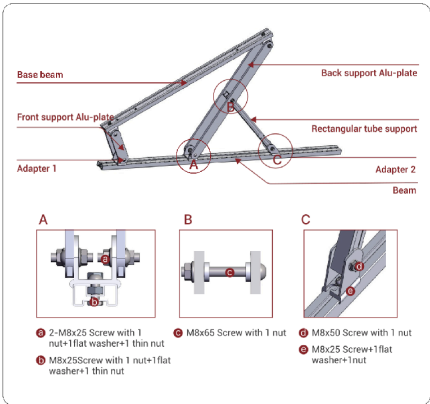
NO.	Name	Image	QTY
1	Folding Bracket		2
2	Panel Fastener		4
4	SUS Cable tie		4
5	Fasteners	M8x18 Hex socket button head bolt	4
		M8x35 Hex socket button head bolt	2
		M8x90 hex head bolt	2
		Expansion bolt	4
6	Tools	5mm hex key	1
		13mm external hex wrench	1

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Installation Step

Step 1: Bracket assembly

First, connect the inclined beam/bottom beam with the adapter 1 to the front/rear support aluminum plate (four places in total), then fix the rectangular pipe support in the rear support aluminum plate, and install the adapter 2 on the other side of the rectangular pipe support, please note that the slotted side of the rectangular pipe support is close to the adapter 2, and repeat the above steps to install another set of brackets, as shown in the figure below:



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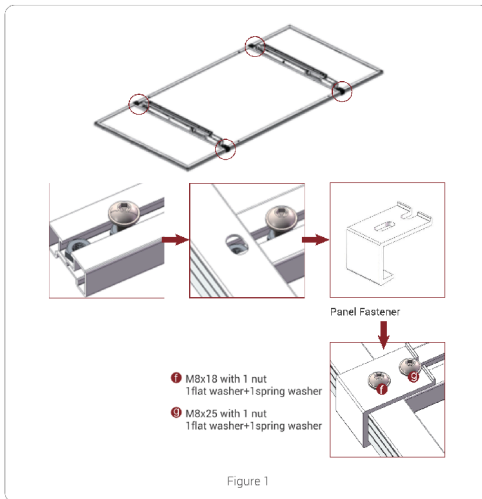
Hybrid - Packing List & Step 1 Bracket Assembly

Controlled note: The source page specifies a tightening torque of 12 Nm for fasteners. Apply this only as shown in the Hybrid mounting instructions.



Step 2: Bracket and Solar Panel Installation

Place the back of the module facing up on the operation table, slide the two sides of the pre-installed bracket inclined beam into a set of bolt combinations, and then slide in a nut, adjust the position of the inclined beam so that it is in the frame of the component and align with the mounting hole of the module; Then put on the aluminum fasteners and tighten all the bolts to complete the fixing, as shown in the figure below.

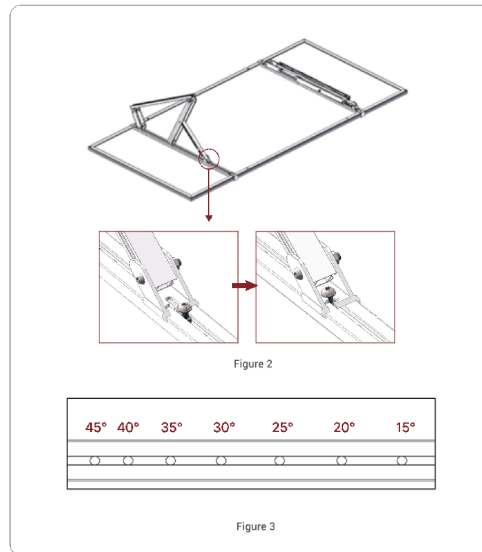


Be careful not to damage the components during installation.

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Step 3: Adjust the angle

Open one side bracket, snap the adapter hoist hole to the positioning bolt at the corresponding angle (see Figure 3 for details of the angle positioning hole), snap to the bottom of the hoist hole, and tighten all bolts with an Allen wrench;



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Hybrid - Step 2 Panel Installation & Step 3 Angle Adjustment

Angle positions shown: 15°, 20°, 25°, 30°, 35°, 40° and 45°. Select and lock the matching position on both sides.

Hybrid - Panel Installation & Angle Adjustment Detail

Hybrid - Step 4/5 Wall and Ground Fixing



Step 4: Repeat the action in step (2) to adjust the angle of the bracket on the other side and tighten all bolts:



Figure 4

Step 5: Fixing bracket

Hang on the wall - fix with expansion screws

According to the spacing of the mounting holes of the bracket, 4 holes are marked on the wall, and a 55mm deep hole is drilled in the 4 marked positions by using an impact drill, and the bracket is fixed with M8x100 expansion bolts.

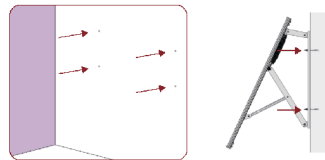


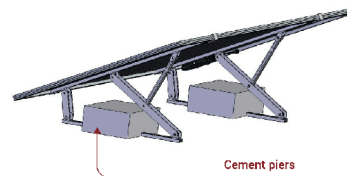
Figure 5

Put on the ground - make expansion bolts or place ballast cement piers

Mark 4 holes on the ground according to the spacing of the mounting holes of the bracket, drill a hole 55mm deep in the 4 marked positions using an impact drill, and fix the bracket with M8x100 expansion bolts.



Or place ballast (such as cement piers) to hold down the bottom beam and fix the support



05

06

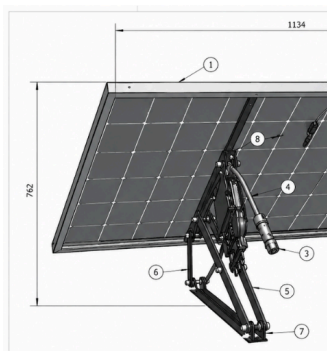
Installation route: The source drawing shows solid-wall fixing using expansion bolts and ground installation using expansion bolts or ballast/cement piers. Follow the safety restrictions and suitability checks in Section 12 before choosing either route.

Hybrid - Microinverter Location



Location of inverter

Leg Mounting



Microinverter: Install at the location shown, secure the T-bolt as illustrated, and maintain the ventilation/water-clearance requirements stated in Section 12.

Source document: UKSOL - Plug In Solar Pro HYBRID INSTALLATION MANUAL - Wall & Ground Mount System (7 pages).

CONTROLLED COMPLIANCE DOCUMENT**UK DECLARATION OF CONFORMITY**

Manufacturer	UKSOL Ltd
Registered / contact address	1 Chalfont Park, Gerrards Cross, Buckinghamshire, SL9 0BG, United Kingdom
Product family	UKSOL Plug-In Solar Pro
Product type	Grid-connected plug-in solar photovoltaic generating system for Great Britain
Electrical configuration	Single-phase, 230 V AC, 50 Hz
Maximum continuous AC output	Microinverter configured so maximum continuous AC output does not exceed 800 VA (maximum continuous output current 3.5 A).

DECLARATION

This declaration of conformity is issued under the sole responsibility of UKSOL Ltd. UKSOL Ltd declares that the complete Plug-In Solar Pro products identified below, when supplied in their approved configuration, installed, connected, used and maintained in accordance with the UKSOL instructions, conform with the applicable requirements identified in this declaration.

PRODUCTS COVERED BY THIS DECLARATION

Product / configuration	UKSOL model / SKU	ENA system reference
Compact 460W - Single Panel Ground Mount	UKS-PRO-C-1-460-MZ1-UKG	UKSOL/21002/V1/A2
Duo 890W - Two Panel Ground Mount	UKS-PRO-D-2-890-MZ1-UKG	UKSOL/21003/V1/A2
Duo 890W - Two Panel Hybrid Mount	UKS-PRO-D-2-890-MZ1-HYM	UKSOL/21007/V1/A3
Compact 515W - Single Panel Hybrid Mount	UKS-PRO-C-1-515-MZ1-HYM	UKSOL/21008/V1/A4
Plus 1030W - Two Panel Hybrid Mount	UKS-PRO-P-2-1030-MZ1-HYM	UKSOL/21012/V1/A3
Max 1260W - Two Panel Hybrid Mount	UKS-PRO-M-2-1260-MZ1-HYM	UKSOL/21013/V1/A2
Advanced 920W - Two Panel Hybrid Mount	UKS-PRO-A-2-920-MZ1-HYM	UKSOL/21014/V1/A4

At the date of issue of this declaration, the seven configurations identified above are recorded with a "Compliant" status in the ENA Type Test Register under the Plug-in Solar category, each at 0.8 kW, single phase.

ENA/G98 registration supports grid-connection compliance. It does not replace UKSOL's complete-product safety and manufacturer obligations.

APPLICABLE GREAT BRITAIN LEGISLATION

- The Electrical Equipment (Safety) Regulations 2016 (SI 2016/1101), as amended.
- The Electromagnetic Compatibility Regulations 2016 (SI 2016/1091), as amended.
- The Radio Equipment Regulations 2017 (SI 2017/1206), as amended, as applicable to the radio-enabled microinverter / communications functionality.
- The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 (SI 2012/3032), as amended.
- The General Product Safety Regulations 2005 (SI 2005/1803), as amended, where applicable.
- The Plugs and Sockets etc. (Safety) Regulations 1994, as amended, including the Plugs and Sockets etc. (Safety) Regulations 1994 and Electricity Safety, Quality and Continuity Regulations 2002 (Amendment) Regulations 2026 (SI 2026/848), insofar as applicable to Plug-In Solar devices.
- The Electricity Safety, Quality and Continuity Regulations 2002, as amended, including SI 2026/848, insofar as applicable to Plug-In Solar microgenerators in Great Britain.

PLUG-IN SOLAR TECHNICAL FRAMEWORK

UKSOL has assessed the product family against the DESNZ Plug-in Solar Device Interim Product Specification, Version 2.0 (July 2026), including the product, electrical-safety, connection, installation, user-information and supplier/manufacturer requirements applicable to products placed on the Great Britain market.

STANDARDS & TECHNICAL SPECIFICATIONS USED AS CONFORMITY EVIDENCE

- Engineering Recommendation G98 - applicable Plug-in Micro-generator / fully type-tested micro-generator connection requirements.
- DIN VDE V 0126-95:2025-12, with UK-specific DESNZ IPS v2.0 requirements taking precedence where requirements differ.
- BS 7671:2018+A4:2026 - Requirements for Electrical Installations.
- BS 1363-1 / BS 1363-2 and BS 1362 - UK plug, socket-outlet and fuse-link requirements applicable to the supplied connection arrangement.
- BS EN 50549-1 - generating plants connected in parallel with distribution networks.
- BS EN 62116 / IEC 62116 - anti-islanding test procedure.
- BS EN IEC 62109-1 and BS EN IEC 62109-2 - safety of power converters for photovoltaic power systems.
- BS EN 62852 - PV DC connectors; BS EN 50618 - PV cables.
- BS EN IEC 61000-6-1 and BS EN IEC 61000-6-3 - EMC immunity and emissions.
- IEC 61215 series and IEC / EN IEC 61730 series - photovoltaic module design qualification and safety qualification.
- BS EN 13501-1 - fire-classification evidence for the PV module outermost substantial layer, where applicable to the IPS requirement.

CONDITIONS OF CONFORMITY

- This declaration applies only to UKSOL-approved product combinations supplied as Plug-In Solar Pro kits.
- Conformity depends on the system remaining in its approved configuration and being assembled, installed, connected, operated and maintained in accordance with the supplied UKSOL Safety, Installation & Operating Manual.
- Components, PV modules, cabling, factory-fitted plug, protective features, microinverter settings, connectors and mounting arrangements must not be substituted, extended or modified except where expressly approved by UKSOL.
- The factory-supplied AC cable and moulded plug form part of the controlled product configuration and must not be cut, shortened, extended, spliced, joined, re-terminated, rewired, replaced or otherwise modified.
- Extension leads, multi-way adaptors, travel adaptors, RCD adaptors and other unauthorised intermediary connection devices must not be used.
- Applicable technical conformity evidence, ENA/G98 documentation, component declarations/certificates, test reports, IPS evidence, risk assessments, integration assessments, specifications, instructions, labelling, traceability and manufacturing/quality records are retained within the controlled UKSOL Product Technical File.

SIGNED FOR AND ON BEHALF OF UKSOL LTD

Name	Andrew Moore
Position	Chief Executive Officer / Authorised Signatory
Place of issue	Gerrards Cross, United Kingdom
Date of issue	24 August 2026
Signature	 UKSOL Ltd Building 4, Chalfont Park Gerrards Cross, SL9 0BG, UK Company number 9427372 Andrew Moore President UKSOL Ltd