








**SOLAR PV  
AND BESS  
INSTALLATION  
SERVICES**

Solar HQ is a leading provider of comprehensive solar solutions, specializing in the design, installation, operation, and maintenance of rooftop solar systems. With a passion for sustainable energy and a commitment to excellence, we have established ourselves as a trusted partner in the renewable energy sector.

## OUR INSTALLATION SERVICES

We offer the installation of the following systems:

-  DOMESTIC/  
RESIDENTIAL 01.
-  COMMERCIAL 02.
-  CAR PORTS 03.
-  EV CHARGERS 04.
-  BATTERIES 05.

# 01.

## SURVEYS

Desktop surveys used for initial consultation and rough "ballpark" estimated pricing guidance only.

Where required, we carry out fully comprehensive site survey using our technical PV system designer and fully qualified and experienced electrical engineer.

# 02.

## GRID CONNECTION

We carry out everything from simple DNO notification to full DNO grid connection application.

# 03.

## PLANNING

We carry out everything from simple planning notifications to full planning applications.

# 04.

## STRUCTURAL

We arrange everything from a simple structural assessment to a full structural report.

# PV SYSTEM DESIGN CONSIDERATIONS:



## EQUIPMENT

We only offer high-quality, high-end recognised brands with a track record of excellent UK based customer support.

Typical Modules – Canadian Solar, JA Solar, Suntech, Trina Solar, QCells (Tier 1 or equivalent).

Typical Inverters – Huawei, SolarEdge, Fronius. Others available.

Typical Framework – K2 Systems. Others available.



## EFFICIENCY

We offer optimised systems where shading/soiling degradation may otherwise reduce kWh output.

We fit solar siphons where possible as standard on all modules <math><20^\circ</math> to reduce soiling to maintain performance.



## SIZING

We bespoke design solar PV systems to best match site specifications, electrical loads, and clients' requirements.

We model different sized PV systems to optimise maximum self-consumption kWh and saving on electricity bills.



## SAFE ACCESS

We design solar PV systems to consider safe access equipment and routes for ongoing maintenance.

We advise where additional safe access equipment may be required to reduce ongoing repeat costs to hire cherry pickers, towers, and scaffolding etc.



## BIRD DETERRENTS

We fit bird protection mesh where possible as standard.

We advise if a further comprehensive bird deterrent solution is recommended.



## BATTERIES

We only recommend battery storage you will benefit from this type of investment.



## PERFORMANCE MODELLING

We are conservative when estimating solar PV system generation kWh and self-consumption kWh.

We do not promise unrealistic performance or returns.

## BEST PRACTICES

We design PV systems in accordance with IET, FPA & Solar Energy UK:

IET Code Of Practice for Grid Connected Solar Photovoltaic Systems (2nd Edition)



Fire Protection Association RC62 Recommendations for fire safety with PV panel installations



Solar Energy UK Rooftop OM best practice Second edition



## INSTALLATIONS WORKMANSHIP

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- ✔ We only install high-quality equipment.
- ✔ We install IMO true-DC DC isolators to allow safe isolation of strings.
- ✔ To reduce all potential future water ingress faults, we carry out connector pull tests, plus torque check all sealing glands.
- ✔ We clip and tie all exterior cables and connectors up off roof and under modules to reduce water ingress and weather degradation faults. This also reduces return trips to carry out expensive remedial works.
- ✔ We torque tighten module clamps to ensure they shouldn't work loose.
- ✔ We fit suitable cable containment to provide adequate support and reduce unnecessary UV degradation and abrasion.
- ✔ We provide you with the appropriate training required by your system.

## HANDOVER PACK

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We provide a comprehensive Solar PV system handover pack containing amongst other items:

01. Handover document
02. MCS Certificate & Product Certs
03. Schematic Diagram(s) of Installation
04. Start Up-Shut Down Procedure
05. Shading and Maintenance
06. Instruction Manuals and data sheets
07. Warranty Information
08. Solar PV Design Calculations (+EESS)
09. Performance Estimate
10. Planning Permission
11. Structural Assessment
12. DNO notification
13. Building control notifications
14. Test results & commissioning data



# ALL OUR INSTALLATIONS COME WITH A WORKMANSHIP WARRANTY AND MCS CERTIFICATION

## WORKMANSHIP WARRANTY

We offer a standard 2-year workmanship warranty as required by MCS.

## WORKMANSHIP MANAGEMENT

We manage any failed product warranty within the 2-year workmanship warranty period.

## MCS CERTIFICATION

All domestic installations are installed in accordance with NICEIC-MCS requirements using EasyMCS QMS documentation and recorded in EasyMCS portal.



Members of:





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