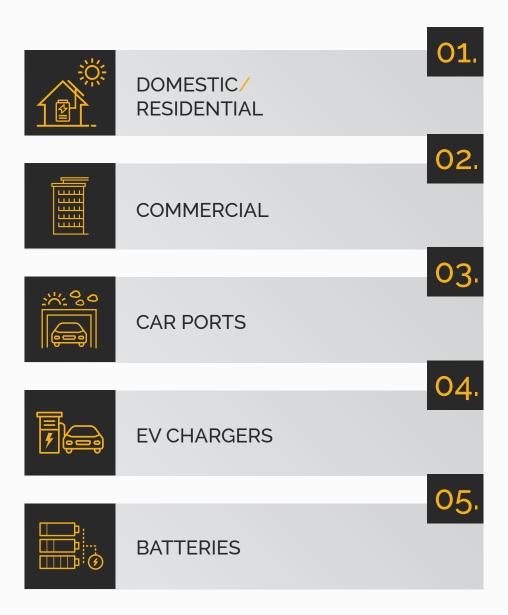


Solar HQ is a leading provider of comprehensive solar solutions, specializing in the design, installation, operation, and maintenance of rooftop solar systems. With a passion for sustainable energy and a commitment to excellence, we have established ourselves as a trusted partner in the renewable energy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

### **OUR INSTALLATION SERVICES**

We offer the installation of the following systems:



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 othewise reduce kWh output.

We fit solar siphons were possible as standard on all modules <20° 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 invesment.



#### PERFORMANCE MODELLING

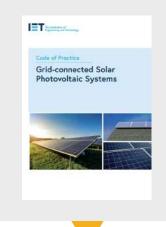
We are conservative when estimating solar PV system generation kWh and self-consumption kWh.

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

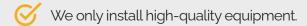


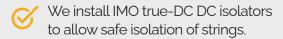
Solar Energy UK Rooftop OM best practice Second edition





#### **INSTALLATIONS WORKMANSHIP**





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.



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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