



# Hybrid solar system with battery

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**BATTERY SYSTEMS AND VAT** There has recently been a VAT drop on Retro-fitted Battery Storage systems down to 0%. However you can only get 0% VAT on Batteries when they are installed for you. Not all products or installations qualify for the reduced 0% rate and you cannot buy or install them yourself. You can see more information on the Government Website related to this here: [VAT Information](#)

If you are based in the South East of England we do have Installation Partners that we can put you in touch with regarding a Battery Installation, so please get in touch for more information.

Using a Hybrid Solar System, any surplus energy generated from the solar panels during the day will be used to charge the batteries, allowing the use of this energy later in the day when the solar panels aren't generating. This allows the utilisation of energy generated from the photovoltaic system rather than drawing from the grid during peak times. The Hybrid Kit is also intelligent, with built-in export limitation and AC output limitation in response to grid frequency and voltage extremes.

11 x MCS certified All Black monocrystalline Solar Panels (440W minimum) (Individual solar panel dimensions are approximately 1,722mm x 1,134mm x 30mm) Please see our Solar Panel Page for available Solar Panel upgrades and prices.

\*Earthing equipment is not supplied (but is required as per the IET Code of Practice for Grid Connected Solar Photovoltaic Systems [1]) \*Surge protection is embedded into the Enphase Micro-Inverters, but you must ensure that any additional surge protection is provided (if necessary) to meet the IET Wiring Regulations.

When installing on Slate Roofs, or Sarking roofs, the Genius SolarFlash Solution is recommended. This is NOT included in the price of this kit, so please ask us if you wish to add this upgrade to your order. One Genius SolarFlash Kit is required for every roof hook within the installation.

**Solar Panels** The 4.84kW (11 Panel) Hybrid Solar Kit is supplied with 11 x 440W MCS certified monocrystalline All Black solar panels. Each solar panel has a 25 year manufacturer's warranty.

**Roof Mount Kit** The 4.84kW (11 Panel) Hybrid Solar Kit comes with a simple to install roof mounting kit to allow you to fix to a Garage, shed, house, stable or any other outbuilding with a tiled or slate roof. These are warranted for 10 years.

Nominal Capacity: 5.12kWh Usable Capacity: 4.78kWh Charge/Discharge Current: 100A Voltage Range (Vdc): 48V - 57.6V Depth of Discharge: 92% Communication Port: RS485, CAN, RJ45 Dimensions (DxWxH): 505mm x 134mm x 440mm Cycle Life: 6000 (25 C) IP rating: IP20 (indoor) Number of Parallel Batteries (Max): 5 Weight: 45kg

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In the UK solar panels rarely produce power at the rated output due to sun angle, time of year, as well as environmental, electrical, cabling, soiling and thermal losses (around 15% in total). As such our kits have been designed with a moderate DC:AC ratio so the system will produce energy earlier in the day, later into the evenings, and perform better on cloudy days. This means more energy is produced at these times, which is beneficial in the UK climate.

[4] All work on your property must comply with the latest Building Regulations in the UK. The ability of the existing roof to carry the load (weight) of the solar panels will need to be checked and proven. Some strengthening work may be needed. It is your responsibility to check this and undertake/organise appropriate works as necessary.

[5] You may require planning permission for your Solar installation. It is your responsibility to check. If you are in any doubt, contact your local planning department or visit the Online Planning Portal for further advice.

Contact us for free full report

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