

Product Specifications

Panels	Longi 300W mono / all black
Optimised panels	Jinko 305W mono / all black
Inverters	Growatt S, MTL & TL3 Series
Power diverter	Marlec Solar iBoost
Energy Storage Systems	Solis 3kW battery inverter and Pylon US3000 3.5kWh batteries
Assembly materials	K2 mounting



Longi 300W mono all black panels

Longi Solar is one of the largest PV manufacturers in the world, specialising in high-performance monocrystalline panels. The all black design ensures a stylish aesthetic. The panels are treated to minimise light induced degradation for better performance over their lifetime.

Specifications

Peak power W_p :	300W
Efficiency:	18.3%
Weight:	18.5kg
Dimensions:	1650 x 991 x 35mm
Product warranty:	10 years
Warranty on output:	25 years (linear)



Jinko 305W mono all black optimised panels

JinkoSolar is the world's largest solar panel manufacturer. These optimised panels are designed to maximise energy generation when modules are partially shaded or dirty. They have optimisers on the back of each panel, with maximum power tracking on individual solar strings, offering enhanced performance without the need for additional hardware.

Specifications

Peak power Wp:	305W
Efficiency:	18.28%
Weight:	19.0kg
Dimensions:	1665 × 1002 × 35mm
Product warranty:	10 years
Warranty on output:	25 years (linear)



Growatt inverters

Growatt is a well established global inverter manufacturer. They offer the perfect combination of quality and affordability, across a wide range of models to fit various PV systems. We'll choose an appropriate inverter from the S, MTL or TL3 series, depending on system size.

Specifications

Max efficiency:	97.6% (S series) 97.9% (MTL series) 98.4% (TL3 series)
Warranty:	10 years



Solar iBoost power diverter

Solar panels generate the most energy during the day, but many households use most of their electricity in the evening. If there is insufficient demand in the house, excess generation from the array will be exported to the grid. This is where an energy storage system (see below) or an add-on such as a power diverter, like the iBoost, comes in.

The iBoost monitors electricity export using a sensor attached between your main meter and consumer unit. If the sensor detects that the property is exporting electricity, the device diverts the excess power to the immersion heater in the hot water tank. This reduces the fuel required by the boiler, thereby cutting fuel costs.

Energy storage systems (ESS)

For solar PV systems up to 20 panels, our standard storage system combines a 3kW Solis inverter charger with between one and three Pylon batteries, giving system sizes as follows:

Small: 3kW inverter / 3.5kWh battery capacity

Medium: 3kW inverter / 7kWh battery capacity

Large: 3kW inverter / 10.5kWh battery capacity



Solis 3kW inverter for battery storage

Solis inverters are made by Ginlong, a leader in the PV market for over a decade. This 3kW inverter is designed to be integrated with battery storage, allowing you to efficiently save excess solar power for later use. It's compact, cools itself naturally without the need for an external fan and offers an emergency power supply in the form of a double socket that can be used during an outage. You can monitor performance over wifi and the noise level is less than 30 decibels, making it suitable for the domestic environment.

Specifications

Rated output power:	3000W
Rated grid voltage:	230V
Rated output current:	13A
Max battery charge efficiency:	94.0%
Max battery discharge efficiency:	94.5%
Dimensions:	403 x 525 x 170mm
Weight:	15kg
Warranty:	10 years



Pylon 3.5kWh battery

Pylontech is a pioneer in energy storage systems, specialising in home rather than electric vehicle batteries. The latest battery offers 3.5kWh of storage and it's modular, so multiple units can be connected up to form a battery bank.

Specifications

Nominal voltage:	48V
Nominal capacity:	3.5kWh
Usable capacity:	3.2kWh
Dimensions:	442 x 420 x 132mm
Weight:	32kg
Warranty:	10 years