



The Energy Box Ltd

The Nook, Blithbury Road, Rugeley, Staffordshire, WS15 3HQ



Solar PV & Battery Order

Account Handler:

Zoe Watts

Reference:

WS15 ROSE

Date:

29/06/2023

Contact:

01543 676600

Email:

zoe@theenergybox.net

Customer:

Alison Mantel, Rugeley Rose Theatre

Account Handler: Zoe Watts

Quotation Reference: WS15 ROSE

Contact: 01543 676600

About Us

The Energy Box Ltd are a local, family-owned business with over 13 years of experience in the Renewable Energy market.

Our aim is to help families, businesses and individuals like ourselves live a greener lifestyle, save money on their energy bills and make the right choices for their personal circumstances, without any pressure!

We have a wealth of knowledge and can offer tailored solutions to meet different household and business needs, with in-house roofing and electrical installation and design teams, quality can be maintained at all times, which is really important to us.

Booking & Installation Process

Site survey - Zoe Watts

Roofing Survey - Complete

Electrical Survey - Complete

Installation - **Monday 24th July 2023**

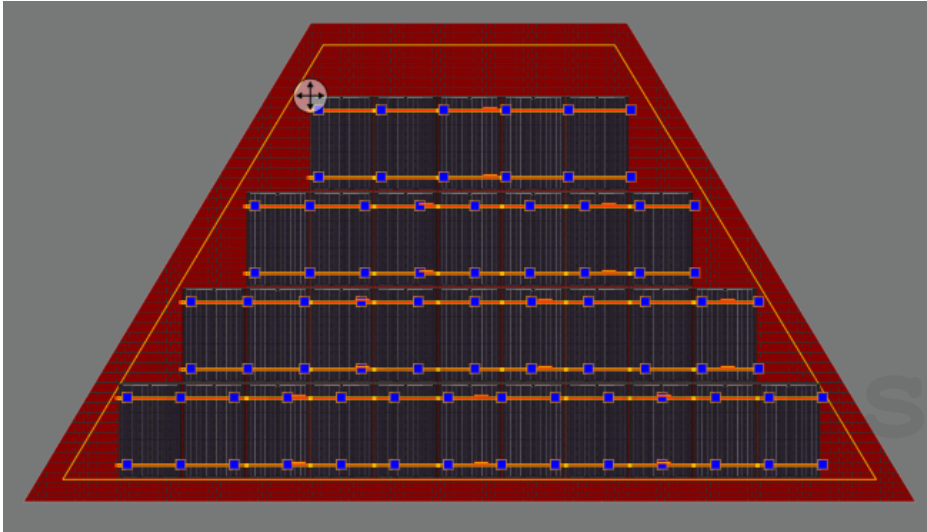
Roofing Team - Danny Watts (Director), Sam Little, Den Goode, Thomas Thirtle, Stuart Gee

Electrical Team - Kevin Page (Lead Electrician), Paul Waterhouse, Steve Pears

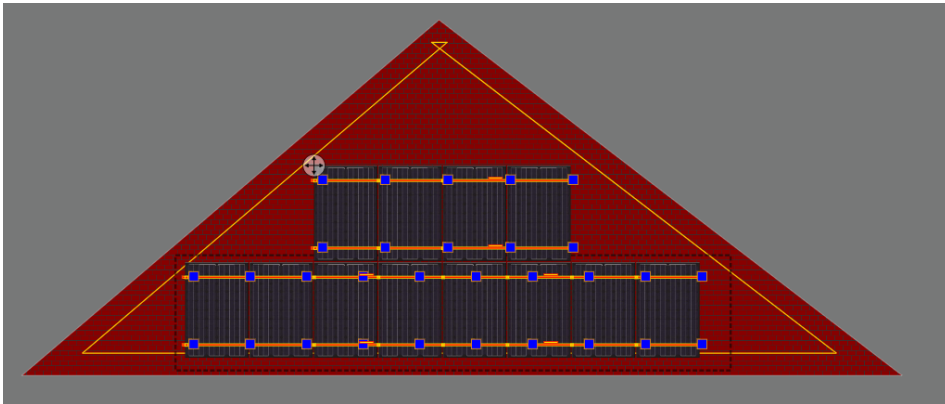
Design & Installation Information

Phase 1 - Office Building

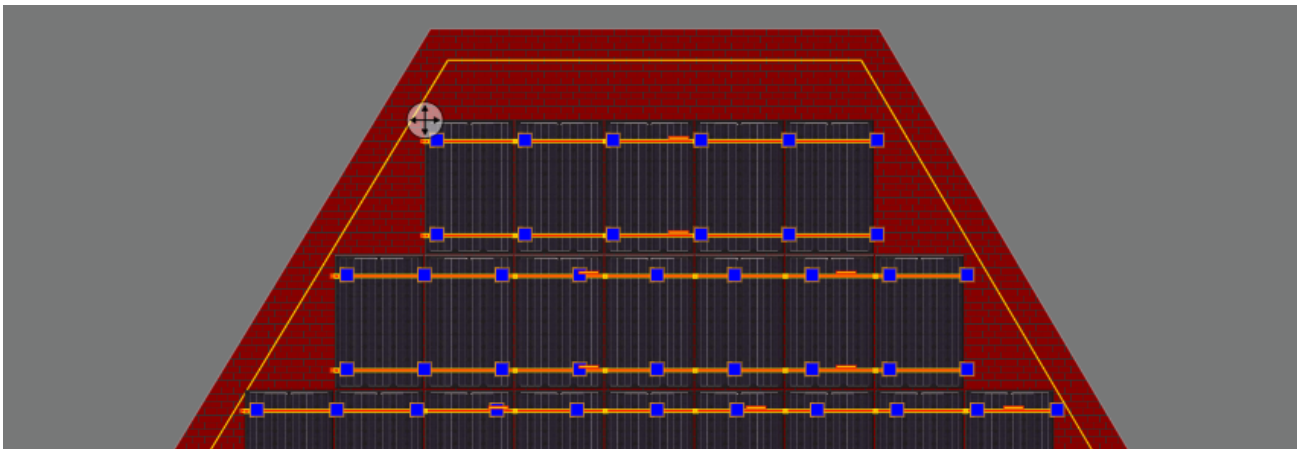
Roof 1 Office, East

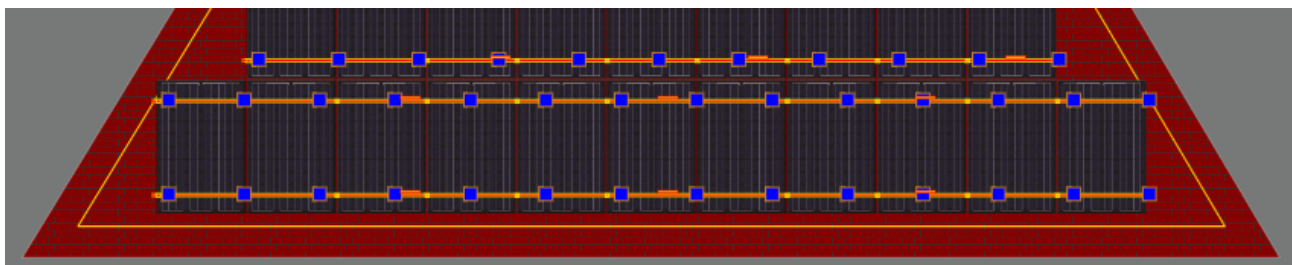


Roof 2 Office, South

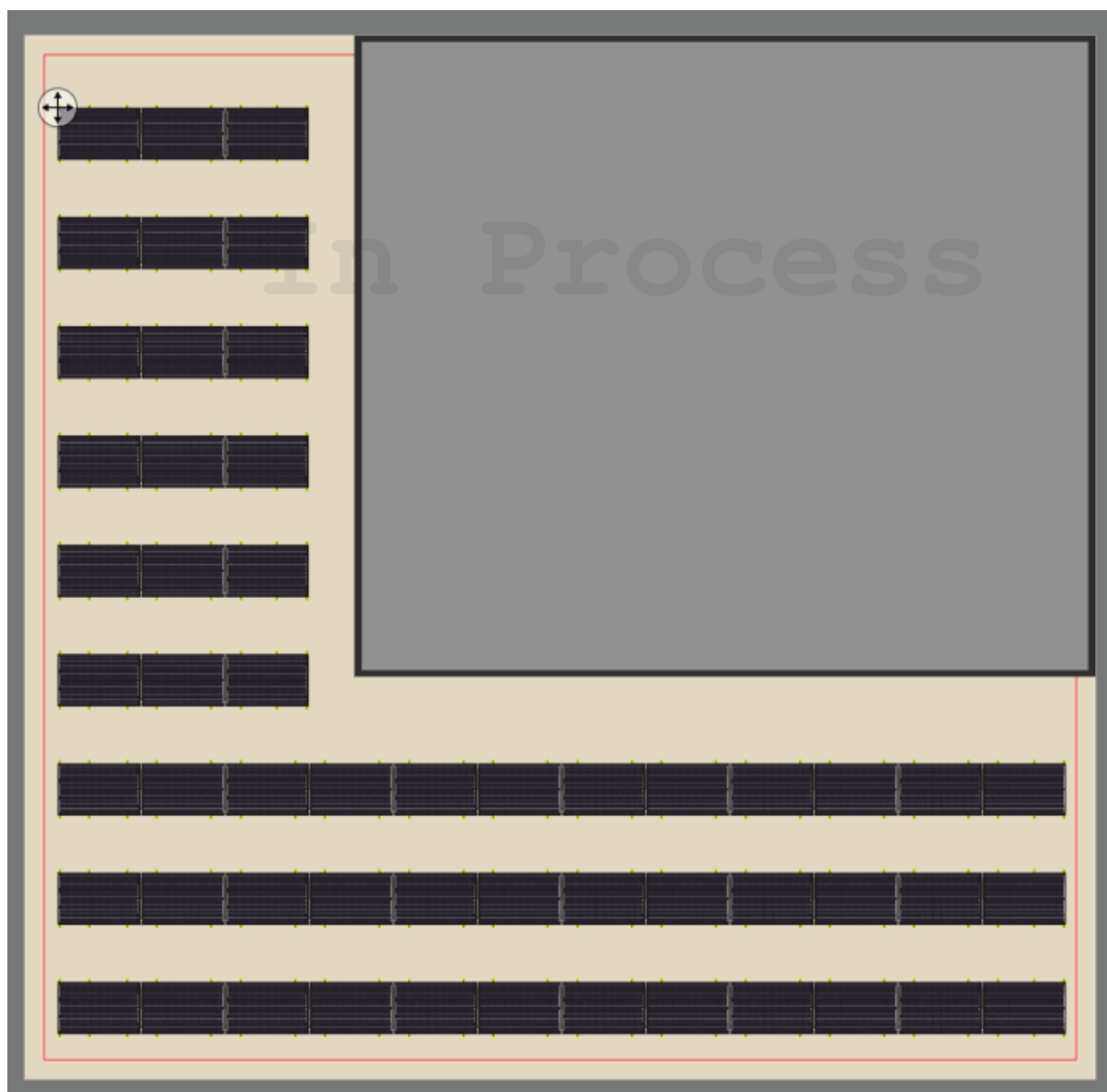


Roof 3 Office, West





Phase 2 - Flat Roof



Phase 3 Carport TBC

Preparation for your Installation:

Electrical space

Wherever your electrical equipment is being housed, please clear the space to make sure access is clear. We will walk through where everything will go upon surveying. Ideally, this needs to be as close to the incoming supply as possible. Please also clear the carpark.

Deposit payment

This is due three weeks before your installation, please check that your bank will approve the amount of money that is needed to be transferred to avoid delays as this could then hold up your material order.

Please see below your agreed payment plan.

We can accept payments via credit card, however there is a 2.75% charge for doing so.

Scaffolding

Elevate Scaffolding will be on site one working day before your installation takes place. We won't be able to give you an eta on arrival as they run back to back work and a lot is time dependent on the job in place before your installation.

If you are the first of their appointments in a day, we will give notice where possible.

If you aren't going to be in, please give us a call so we can arrange rear access where needed.

Installation

Please clear parking spaces outside the front where possible so we have a clear access to offload your panels and equipment.

We ask that customers are flexible and depending on weather, the installation may run over into an additional day than previously agreed.

Heavy rain and high heat conditions could mean we have to postpone your installation.

Balance Payment

Once your equipment is switched on and is generating, your final payment is due, this is usually the afternoon of the final installation day.

Warranty & Ongoing Support

We offer a 10 year, insurance backed, warranty and are always on hand if you need any assistance with monitoring your system.

Your Quote

53.3KW Solar System - £77,722.80 inc 20% VAT (which you can claim back)

In Process
130 x 410w Canadian Panels

2 x 25KW Inverters

Scaffolding

Mounting system for both tiled roofs and flat roof, including hookstops to prevent tile breakage

Roofing Installation Team

Electrical Installation Team

AC Materials

DNO Application

10 Year workmanship warranty

Payment Plan

inc 20% VAT

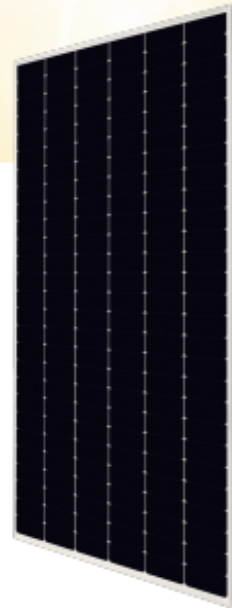
Total for Solar Installation	£77,722.80
Deposit due Monday 3rd July	£31,089.00
Payment on completion of Phase 1, Office Building Solar Installation Thursday 27th July	£27,262.72
Payment on completion of Phase 2, Flat Roof date tbc	£19,370.96
Phase 3 Car Port tbc	

In Process

Data Sheets For Materials



 **CanadianSolar**



HiDM

High density MONO PERC module

400W~420W

CS1U-400 | 405 | 410 | 415 | 420MS

MORE POWER



Maximize the light absorption area,
module efficiency up to 20.4 %



Low temperature coefficient (Pmax):
-0.37 % / °C



Better shading tolerance



enhanced product warranty on materials
and workmanship*



linear power output warranty*

MORE RELIABLE

Lower internal current,
lower hot spot temperature



Cell crack risk limited in small region,
enhance the module reliability



Heavy snow load up to 5400 Pa,
wind load up to 2400 Pa*

years **limited power output warranty**

*According to the applicable Canadian Solar Limited Warranty Statement.

MANAGEMENT SYSTEM CERTIFICATES*

ISO 9001:2015 / Quality management system

ISO 14001:2015 / Standards for environmental management system

OHSAS 18001:2007 / International standards for occupational health & safety

PRODUCT CERTIFICATES*

IEC 61215 / IEC 61730: VDE / CE / MCS / KS / INMETRO

IEC 61701 ED2: VDE / IEC 62716: VDE

UNI 9177 Reaction to Fire: Class 1 / Take-e-way



As there are different certification requirements in different markets, please contact your local Canadian Solar sales representative for the specific certificates applicable to the products in the region in which the products are to be used.

CANADIAN SOLAR INC. is committed to providing high quality solar products, solar system solutions and services to customers around the world. No. 1 module supplier for quality and performance/price ratio in IHS Module Customer Insight Survey. As a leading PV project developer and manufacturer of solar modules with over 40 GW deployed around the world since 2001.

* For detail information, please refer to Installation Manual.

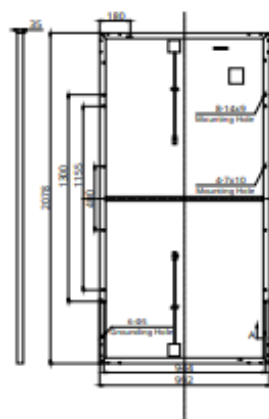
CANADIAN SOLAR INC.

545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

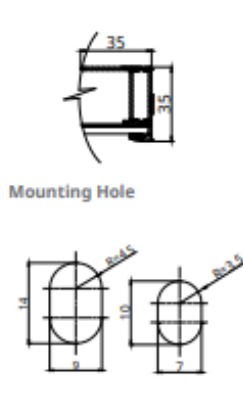
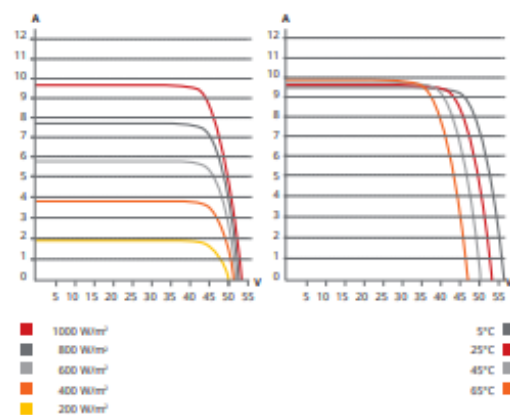
In Process

ENGINEERING DRAWING (mm)

Rear View



Frame Cross Section A-A

**CS1U-405MS / I-V CURVES****ELECTRICAL DATA | STC***

CS1U	400MS	405MS	410MS	415MS	420MS
Nominal Max. Power (P _{max})	400 W	405 W	410 W	415 W	420 W
Opt. Operating Voltage (V _{mp})	44.1 V	44.3 V	44.5 V	44.7 V	44.9 V
Opt. Operating Current (I _{mp})	9.08 A	9.16 A	9.23 A	9.30 A	9.37 A
Open Circuit Voltage (V _{oc})	53.4 V	53.5 V	53.6 V	53.7 V	53.8 V
Short Circuit Current (I _{sc})	9.60 A	9.65 A	9.70 A	9.75 A	9.80 A
Module Efficiency	19.4%	19.6%	19.9%	20.1%	20.4%
Operating Temperature	-40°C ~ +85°C				
Max. System Voltage	1500V (IEC) or 1000V (IEC)				
Module Fire Performance	CLASS C (IEC 61730)				
Max. Series Fuse Rating	15 A				
Application Classification	Class A				
Power Tolerance	0 ~ + 10 W				

* Under Standard Test Conditions (STC) of irradiance of 1000 W/m², spectrum AM 1.5 and cell temperature of 25°C.

MECHANICAL DATA

Specification	Data
Cell Type	Mono-crystalline
Dimensions	2078 × 992 × 35 mm (81.8 × 39.1 × 1.38 in)
Weight	23.4 kg (51.6 lbs)
Front Cover	3.2 mm tempered glass
Frame	Anodized aluminium alloy
J-Box	IP68, 4 bypass diodes
Cable	4.0 mm ² (IEC)
Cable length	1000 mm (39.4 in) (+) and 640 mm
(Including connector)	(25.2 in) (-) *; leap-frog connection: 1780 mm (70.1 in)**
Connector	T4 series or H4 UTX or MC4-EVO2
Per Pallet	30 pieces
Per Container (40' HQ)	660 pieces

* Adjacent two modules (portrait: left and right modules; landscape: up and down modules) need to be rotated 180 degrees.

** Need to confirm with the tracker suppliers there are no mounting or operation risks when cables go across the torque tube and bearing house.

ELECTRICAL DATA | NMOT*

CS1U	400MS	405MS	410MS	415MS	420MS
Nominal Max. Power (Pmax)	296 W	300 W	304 W	307 W	311 W
Opt. Operating Voltage (Vmp)	40.8 V	41.0 V	41.2 V	41.4 V	41.5 V
Opt. Operating Current (Imp)	7.26 A	7.32 A	7.37 A	7.43 A	7.48 A
Open Circuit Voltage (Voc)	49.9 V	50.0 V	50.1 V	50.2 V	50.3 V
Short Circuit Current (Isc)	7.75 A	7.79 A	7.83 A	7.87 A	7.91 A

* Under Nominal Module Operating Temperature (NMOT), irradiance of 800 W/m² spectrum AM 1.5, ambient temperature 20°C, wind speed 1 m/s.

TEMPERATURE CHARACTERISTICS

Specification	Data
Temperature Coefficient (Pmax)	-0.37 % / °C
Temperature Coefficient (Voc)	-0.29 % / °C
Temperature Coefficient (Isc)	0.05 % / °C
Nominal Module Operating Temperature	43±3 °C

PARTNER SECTION



The specifications and key features contained in this datasheet may deviate slightly from our actual products due to the on-going innovation and product enhancement. Canadian Solar Inc. reserves the right to make necessary adjustment to the information described herein at any time without further notice. Please be kindly advised that PV modules should be handled and installed by qualified people who have professional skills and please carefully read the safety and installation instructions before using our PV modules.

CANADIAN SOLAR INC.
545 Speedvale Avenue West, Guelph, Ontario N1K 1E6, Canada, www.canadiansolar.com, support@canadiansolar.com

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In Process



Solis-25K

Solis Three Phase Inverters



Features:

- ▶ Solis Three Phase Range
- ▶ Over 98.6% Max. efficiency
- ▶ 200V-800V MPPT voltage range-ultra low startup
- ▶ 7.0" LCD color screen display
- ▶ Four MPPT design with precise MPPT algorithm
- ▶ Compact and light design, easy installation
- ▶ IP65 rated for outdoor installation
- ▶ Anti-resonance, single transformer can connect 6M+ in parallel
- ▶ RS485, WiFi/LAN/GPRS (optional) interface
- ▶ WiFi monitoring available-plus access to Android and Apple apps



Model:

Solis-25K

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In Process



Datasheet

Model Name	Solis-25K
Input DC	
Max. DC input power(kW)	33
Max. DC input voltage(V)	1000
Nominal DC voltage(V)	600
Start-up voltage(V)	350
MPPT voltage range(V)	200-800
Max. input current(A)/B/C/D)	18A+18A+18A+18A
Max. Short Circuit current for each MPPT	23.4A+23.4A+23.4A+23.4A
MPPT number/Max input strings number	4/8
Output AC	
Rated output power(kW)	25
Max. apparent output power(kVA)	27.5
Rated grid voltage(V)	400
Rated grid frequency(Hz)	50/60
Rated grid output current(A)	36.1
Max. output current(A)	41.7
Power Factor (at rated output power)	0.9leading ... 0.9lagging
THDi (at rated output power)	<3%
Efficiency	
Max. efficiency	98.6%
EU efficiency	98.3%
MPPT efficiency	>99.9%
Protection	
DC reverse-polarity protection	Yes
Insulation resistance monitoring	Yes
Residual current detection	Yes
Surge protection	Yes
Islanding protection	Yes
Integrated DC switch	Optional

General Data

Dimensions(mm)	530W*700H*156.5D
Weight (kg)	58.2
Topology	Transformerless
Self consumption (night)	<1W (Night)
Operating ambient temperature range	-25~60°C
Relative humidity	0~100%
Ingress protection	IP65
Noise emission(typical)	<30 dBA
Cooling concept	Natural convection
Max. operation altitude	4000m
Grid connection standard	EN50438, AS4777, VDE0126-1-1, IEC61727, G99, IEC 62116
Safety/EMC standard	IEC62109-1/-2, AS3100, EN61000-6-1, EN61000-6-2, EN61000-6-3, EN61000-6-4

Features

DC connection	MC4
AC connection	Terminal connectors
Display	7.0" LCD color screen display
Communication connections	4 pins RS485 connector , 2 RJ45 connector
Monitoring	Wifi or GPRS
Warranty	5 years (extend to 20 years)

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In Process

HIES
Consumer
Code

SureBuy

The Home Insulation & Energy Systems Contractors Scheme (HIES) is a consumer protection organisation covering the installation of renewable energy products.

“HIES gives you the trust, confidence and peace of mind you deserve”



George Clarke
Brand Ambassador

Join the 100,000
consumers who
have used a
HIES member.

Consumer Protection, Made Simple:

Key Consumer Benefits
using a Platinum Member:



Vetted and Accredited Installers

All HIES members have successfully passed our strict accreditation process and are vetted annually to ensure they adhere to our scheme rules.



Free Deposit Protection Insurance

Any single or staged deposit payment paid to a HIES member will be protected should their installer cease to trade before completing the installation (up to the total of 25% of the contract value).



Free Stage Payment Protection

Any single or staged deposit payment paid to a



Free Insurance Backed Guarantee (IBGs)

Every consumer using a HIES member will receive

HIES member will be protected should their installer cease to trade before completing the installation (up to the total of 25% of the contract value).

a free IBG to protect the workmanship guarantee should their installer cease to trade upon completion of the contract.



Alternative Dispute Resolution

HIES expert mediators are always on hand to help resolve any disputes which may arise between a consumer and anyone of our members.



Access to Ombudsman Services

Consumers using a HIES member will have free access to a highly regarded Ombudsman should we fail to resolve your dispute.

0344 324 5242 info@hiesscheme.org.uk www.hiesscheme.org.uk

The Home Insulation and Energy Systems Quality Assured Contractors Scheme (HIES) is a division of The Integrity Foundation, a Company Limited by Guarantee. Registered address: Centurion House, Leyland Business Park, Centurion Way, Farington, Leyland, England, PR25 3GR. Registered in England and Wales (Company Number 07972075).

In Process

Certificates

MCS CERTIFIED **NAPIT**

Microgeneration Installer Scheme

Certificate of Approval

Certificate Number: NAP/66864/22/1

Installation Company: The Energy Box Ltd
Contracting Office Address: Gorton Lodge Farm, Longdon, RUGELEY, WS15 4NN

This is to certify that the above company has been successfully assessed against the requirements of the Microgeneration Certification Scheme (including Contractor Requirements MCS 001-1) and is deemed competent to undertake the supply, design, installation, set to work, commissioning and handover of the microgeneration systems indicated below:

Technology	Date of Approval	Date of Expiry
MIS 3002 - Solar Photovoltaic (PV) Systems	17/06/2022	16/06/2023

The certified company is subject to periodic surveillance and is licensed to use the mark of NAPIT

Signed: Chief Operating Officer on behalf of NAPIT Certification Limited

Date of Issue: 20 June 2022

The validity of this certificate can be checked by contacting NAPIT (details below)

NAPIT | certification
NAPIT Certification Ltd
Mill 3, 4th Floor, Pleasley Vale Business Park
Mansfield, Nottinghamshire NG19 8RL

Registered No: 5906366
www.napit.org.uk
t: 0345 543 0330
e: info@napit.org.uk

Validity of this certificate is subject to compliance with the NAPIT Scheme Rules and any specific additional conditions notified to the certificate holder.
This certificate remains the property of NAPIT Certification Limited

The use of the accreditation symbol indicates accreditation in respect of these activities covered by the accreditation certificate no 4358

MCS/CER0010 v2.6 (05.21)



Certificate No:422702023

In Process

Terms and Conditions

1. These are the Terms, which together with the Order comprise the Contract between You and Us. You should read them carefully. The Contract will commence on the day that it is signed by both parties.
2. In this Contract We refer to:

HIES: means the Home Insulation and Energy Systems Quality Assured Contractors Scheme (a division of the Integrity Foundation (reg. no. 07972075) and which has prepared the Model Contract which forms the basis of these Terms.

Goods: means the items specified in the Order that We have agreed to supply to You.

Installation Plan: means the plan which We will produce to explain what is going to happen, any health and safety issues that You need to be aware of, advise You about any preparations that You may need to make (such as moving furniture or valuables or clearing space), the arrangements for access to Your property by the installation team, any special instructions to protect Your children or pets and what We will be doing with waste and materials that We need to take away.

Order: means the detailed description of the Goods and Services that You require Us to supply to You and any documents referred to therein.

Preparatory Work: means any work that We are contracted to do prior to installation of the Goods.

Services: means the delivery, installation and professional services specified in the Order that We have agreed to provide to You.

We, Us, Our: means The Energy Box Ltd, a Limited Company registered/trading in England, Company number 13131737 whose registered/trading address is Gorton Lodge Farm, Stoneywell Lane, Longdon, WS15 4NN / The Nook, Blithbury Road, Rugeley, Staffordshire, WS15 3HD.

You, Your: means the person(s) whose details are set out in the Order.

Information we are Required to Give You

1. The pricing of goods to include:
2. DELIVERY CHARGES (IF ANY)
3. VAT CHARGES (AND HOW YOU MAY DEAL WITH CHANGES IN VAT RATES)
4. ANY STATUTORY FEES (SUCH AS PLANNING CONSENT FEES) AND WHO PAYS THEM
5. ANY OTHER COSTED ITEMS AND WHETHER OPTIONAL OR MANDATORY
6. ANY SPECIAL OFFERS OR INCENTIVES AND ANY DIFFERENT TERMS AND CONDITIONS ASSOCIATED WITH THAT OFFER
7. By placing the Order, You give Us permission to go ahead with any Preparatory Work specified in the Order. If You change Your mind and cancel the Contract after commencement of these Preparatory Works, You will be charged a reasonable proportion of the fees shown for them on the Order. You and Us can, by agreement confirmed in writing, vary the Goods, Services or Terms of this Contract.

Changing Your Mind

1. If we are making the Goods to Your specific measurements in advance delivery, Your rights to cancel last for 7 days from the date of Your contract. Otherwise, Your rights to cancel as a consumer last for 14 days after the last of Your Goods are delivered. If any goods have been delivered to Your address and You cancel within the 14 day period collection of goods must be made available to us immediately. You can find out more information about Your rights to change Your mind at www.hiesscheme.org.uk. To change Your mind and cancel Your contract You should tell us as quickly as possible and confirm this in writing. You can notify us by any means (see Contact Us).

If you cancel after a deposit has been paid and you have had a survey, there will be a charge of £250 to cover survey and administration costs.

Delivery and Installation

1. We aim to complete the delivery and installation on or about the date We have agreed with You, but We will liaise with You over any reasonable changes to that. Any delivery issues which fall outside of our control won't be compensated for, We will aim to resolve this matter quickly and re schedule the installation date as close to the original date as possible.
2. We will be responsible for any waste removal from the site, including packaging, off cuts, and general site waste.

Payment Terms

1. The full Price is shown clearly on the Order. We may amend the Price, by agreement with You, following a survey or any other additional matters that arise in the course of delivering the Services.
2. You will pay for the Goods and Services as follows:
3. You will pay us a deposit of 40% of the total Price, on receipt of the Order Confirmation.
4. On completion of the installation, You will pay the balance of any sums due on the same day.
5. We accept payment by bank transfer, debit or credit card (+ 2.75% fee for credit card)
6. The non-payment of any payments due by the relevant due date, may incur additional charges. We may levy interest at a rate of up to 8%. Any interest due will be calculated and added to Your bill and accrue from the date on which payment was due to the date of payment whether before or after any judgement. We may also add any legal, debt recovery or processing fees to the amount due.

Defective Goods or Service

1. If You have a concern or complaint about the Goods or Service please let Us know as soon as possible (See Contact Us). Your rights as a consumer are set out in legislation and You can find out more about them at www.hiesscheme.org.uk.
2. If You do identify a fault or problem with the Goods, please contact us. We will investigate the fault, which may include coming back to Your property if necessary. You agree to cooperate with Us to enable Us access to Your property.

Dispute Resolution

1. In the event of an unresolvable issue, You can refer Your case to Our nominated alternative dispute resolution provider through HIES, QA Scheme Support Services LTD and the Dispute Resolution Ombudsman, HIES Can be contacted at:

T: 0344 324 5242

E: info@hiesscheme.org.uk

www.hiesscheme.org.uk

Centurion House, Leyland Business Park, Centurion Way, Leyland, PR25 3GR

This Contract is subject to the applicable laws of England, Wales, Scotland and Northern Ireland and save that the parties agree that, in the event of a dispute, We will exclusively attempt to resolve the dispute through HIES's alternative dispute resolution services, the courts of England and Wales shall have exclusive jurisdiction to hear any dispute arising from this Contract.

Using Your Personal Information

1. We will use the personal information You provide to Us in accordance with the Data Protection Act 2018, General Data Protection Regulations and more specifically to:
2. Supply the Goods and Services to You
3. Process any payments that You make for the Goods and Services, including if necessary conducting credit reference check;
4. Register Your installation with any relevant bodies, including Your deposit protection and insurance backed guarantee and any competent persons scheme;
5. Address any concerns or complaints that You have about the Goods and Services, including liaison with HIES and QA Scheme Support Services Limited or The Dispute Resolution Ombudsman where the law requires Us to share.
6. On the Order, We have asked You to indicate whether or not You will allow Us to send You information about Our future Products and Services. We will use Your information in accordance with Your wishes and You may notify Us of any changes to those wishes (See Contact Us).

Contact Us

If You need to write to Us, You may do so at:

The Energy Box Ltd,

The Nook,

Blithbury Road ,

Rugeley,

Staffordshire,

WS15 3HD

01543 676600

Email - hello@theenergybox.net

If you change your mind and decide to cancel your contract, you may do so by contacting us:

Customer Support - 01543 676600

In Process

Project Approval

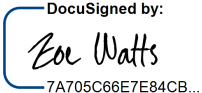
We will be making the payment via:

- BACS payment
- Credit Card - Worldpay + 2.75% fee
- GoCardless +1% fee

On behalf of The Energy Box LTD -

Name: Zoe Watts

Address: The Nook, Blithbury Road, Rugeley, Staffordshire, WS15 3HD

SIGNED: 7A705C66E7E84CB...

DATE: 7/3/2023

On behalf of Rugeley Rose Theatre -

Name:

Address: Taylor's Lane, Rugeley WS15 2AA

SIGNED:

DATE:

In Process