

AJC EasyCabin

**Mobile welfare range
with maximum solar,
HVO generator or
hydrogen fuel cell.**



Your journey towards ZERO emissions starts here:

Ecosmart®

3 years of development has led to the ultimate EasyCabin range. Designed for the highest possible power saving & harvesting performance, even in the unpredictable UK weather.

SOLAR MAX

**Backup HVO
Stage 5 Generator**

ZERO^{CO2}

**Backup
Hydrogen Fuel Cell**



**Maximum Solar. Lithium Battery Bank.
Intelligent, automatic systems. Efficient appliances.
Same great Ecosmart comfort and usability.
100% of the power can be met from solar only.***

AJC EasyCabin

Backup
power



SITE WELFARE

**Your journey towards
ZERO emissions
starts here.**



EcoSmart®

SOLAR MAX

Maximum Solar + Lithium Battery Bank + Backup HVO Stage 5 Generator + No Fossil Fuels
Intelligent systems + Efficient Appliances + Fully Automatic + Self Charging + Rain Harvesting
= ZERO fuel potential, 100% of power needs can be met by solar alone.*

AJC EasyCabin



No emissions No compromise

The future of site welfare is here.

Ecosmart® **ZERO**^{CO₂}

Maximum Solar + Lithium Battery Bank + Backup Hydrogen Fuel Cell + No CO₂ Emissions
Intelligent systems + Efficient Appliances + Fully Automatic + Self Charging + Rain Harvesting
= ZERO fuel potential, 100% of power needs can be met by solar alone.*



Push sustainable power beyond the *MAX*, all the way to *ZERO*.

Full roof of super efficient solar panels



Ecosmart®

MAX

Backup HVO
Stage 5 Generator

ZERO^{CO₂}

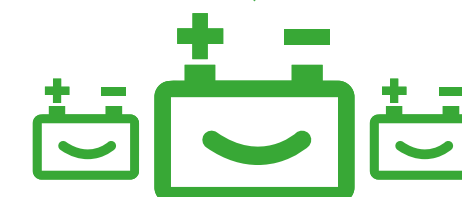
Backup
Hydrogen Fuel Cell



Maximum Solar. Lithium Battery Bank.
Intelligent, automatic systems. Efficient appliances.
Same great Ecosmart comfort and usability.
100% of the power can be met from solar only.*

No compromise, sustainable, automatic power systems. The ultimate EasyCabin.

Extra large, high quality solar panels and lithium battery bank for maximum power harvesting and storage.



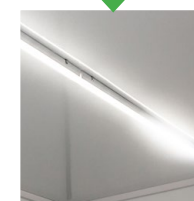
Powerful lithium battery bank

Ecosmart®

Power management system keeps back-up generator use to a minimum



Kettle & Microwave



Lighting



Hot water



Heating systems



Sockets

Backup power on stand by just in case!



LOW
CO₂

No fossil fuels

With HVO fuel used as a back up only.



Zero fuel with solar panels

On summer days up to 100% of the power demands can be met from the solar panels.*

LOW

More peace and quiet

Less generator time. Less noise and vibration.



On-demand power & heat

On any appliance in the cabin.



Efficient power management

The Ecosmart system controls power demands to make sure the generator is only used when absolutely necessary.



Remote telemetry

View data readouts on your device or laptop from any where in the world



Rain water harvesting

Re-use rain water for toilet flushing and hand washing.

Ultra low
emission

ZONE

Clean
air

ZONE



**Solar + Lithium Battery Bank
+ Stage 5 HVO Generator
= No fossil fuels (or low emission diesel)**



**Ready for the transition
away from fossil fuels.**



We have been working hard behind the scenes to develop new ways to save harmful emissions and get ready for the future.

We need to provide piece-of-mind to our customers who are moving towards new alternative fuels. Our Biosmart products are designed to run both HVO and regular diesel whilst maintaining a manufacturers warranty. The perfect solution whilst in the transition away from fossil fuels.

HVO (Hydrogenated Vegetable Oil) is becoming more popular and accessible to off-road machinery users. It offers an easy way to cut emissions and fossil fuel use, whilst running traditional generators.

Biosmart HVO fits neatly into our product line offering real flexibility with fuel availability. Biosmart working in combination with our solar powered systems, will lower emissions even further!

HVO. Every drop powers lower harmful emissions

Due to changes in tax relief on red diesel that came into force in 2022, the drive towards green fuel alternatives is getting stronger. There are many established UK wide suppliers and prices are falling.

HVO is virtually the same as mineral diesel, but with added green benefits.

Fuel Benefits

(*varies depending on fuel brand/supplier)

- **Up to 30% lower NOx***
- **Up to 85% less particulates***
- **Up to 90% less CO2***
- **Meets EN 15940:2016**
- **Enhanced cold weather storage & performance, compared to mineral diesel**
- **Non toxic biodegradable**
- **Low sulphur, FAME and fossil content***



**Solar + Lithium Battery Bank
+ Hydrogen Fuel Cell
= No Local Emissions**



**True ZERO local emissions,
the future of site welfare.**

**The UK hydrogen economy is growing.
Get ahead of the curve with your welfare fleet.**

The Ecosmart ZERO, the world's first Hydrogen powered welfare unit. Launched in Feb 2019, the zero has 2 years' service in the UK, undergoing extensive trials, improvements and upgrades. The Ecosmart ZERO has the same welfare facilities as any Ecosmart unit, with ZERO local emissions.

Zero fuel potential with solar panels. On summer days up to 100% of the power demands can be met from the solar panels.

The Ecosmart ZERO is now used by hire fleet operators and their customers, all year round in UK weather. We have collected 2 years of power consumption data to show systems working in all kinds of site scenarios.

MAJOR 2022 UPGRADE: The Ecosmart ZERO

Now with a redesigned Hydrogen Fuel Cell Module to improve performance, power and operation. Intelligent Energy engaged AJC on what improvements they would like to see from their fuel cells that would bring additional benefits to the Ecosmart ZERO range. Ecosmart ZERO 2022, is the next generation model.

Trialled, Tested, Proven. Hydrogen + Solar Welfare.

Extensively tested and proven to work effectively in all seasons. Used by hire fleet operators and their customers, UK wide. Next generation fuel cell & updated systems. More power, quicker startups, more features, more efficiency. Add the Wind turbine upgrade for reduced charge times.



Scale up your eco-potential to ZERO emissions. Solar + alternative power sources.

We have a large collection of power consumption case studies and data.
Available on request.

Hybrid power saving potential

Improve charge times

Close to Zero Emissions

Zero Emissions

No Fuel No Emissions

Hybrid Power
Generator / Battery

Up to 78% better fuel economy for the same heating time.

Fully Automatic just add fuel and use.

Extra solar input charges batteries faster.

XL solar & batteries with responsive systems. Close to ZERO local emissions.

True ZERO local emissions. XL solar & batteries with responsive systems.

True ZERO local emissions. XXL solar & swappable batteries with responsive systems.

Ecosmart

Hybrid Power

HVO Generator / Battery



Heating
Fan heater

Water Pump

Kettle Microwave

LED Lighting

Hydraulics

Battery Charging
Push button start



Instant Hot Water
4 minutes warm up
= 4 hours hot water on demand

Ecosmart 'Air'

Hybrid Power

HVO Generator / Battery



Kettle Microwave

Heating
Diesel & battery

Water Pump

LED Lighting

Hydraulics

Battery Charging
Push button start



Instant Hot Water
4 minutes warm up
= 4 hours hot water on demand

Autosmart

Automatic Self charging hybrid

HVO Generator / Battery



Kettle Microwave

'Air' Heating
Diesel & battery

Water Pump

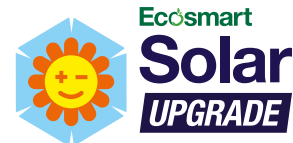
LED Lighting

Hydraulics

Automatic Battery Charging



Instant Hot Water
4 minutes warm up
= 4 hours hot water on demand



Solar Panels

HVO Generator / Battery / Solar



Boost battery charging speed with solar input



Generator time reduced

Upgrade from:

Ecosmart

Ecosmart 'Air'

Autosmart



Automatic Self charging hybrid

Lithium Battery Bank / XL Solar / HVO Generator Backup



ZERO fuel on summer days

All systems run from battery bank

Heating option
Diesel or Electric



Generator for battery charging or power surges



Instant Hot Water
4 minutes warm up
= 4 hours hot water on demand



Automatic Self charging hybrid

Lithium Battery Bank / XL Solar / Hydrogen Fuel Cell Backup

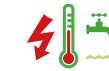


ZERO fuel on summer days

All systems run from battery bank



Hydrogen Fuel Cell for battery charging or power surges



Instant Hot Water
4 minutes warm up
= 4 hours hot water on demand



Automatic 100% Electric

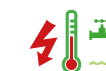
XXL Lithium Battery Bank
XXL Solar / Swappable battery cells



Swap battery cells with your site service routine



Extend battery storage with a Battery Pod



Instant Hot Water
4 minutes warm up
= 4 hours hot water on demand

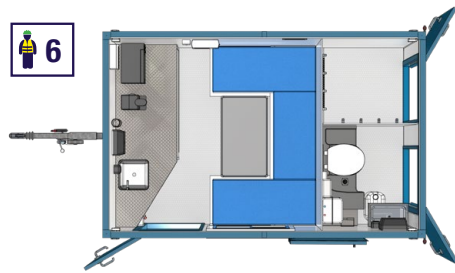
Choose
Layout

Multiple layouts
Multiple sizes
Ultimate choice

Mobile Hydraulic Trailer

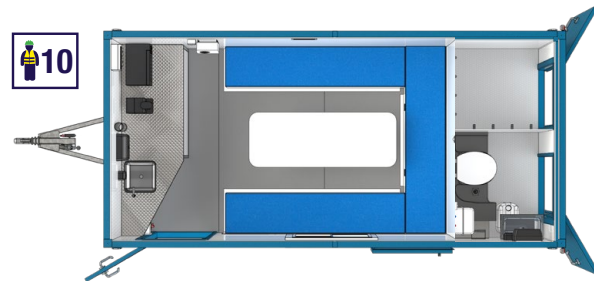
12

6



16

10



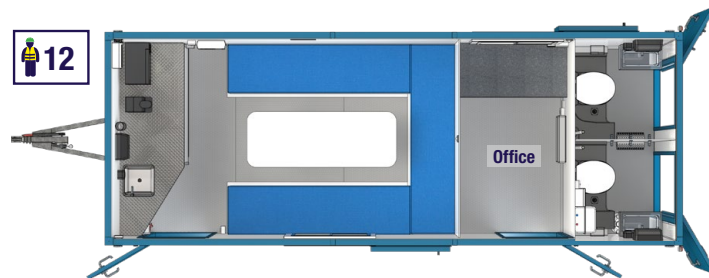
16 +

7



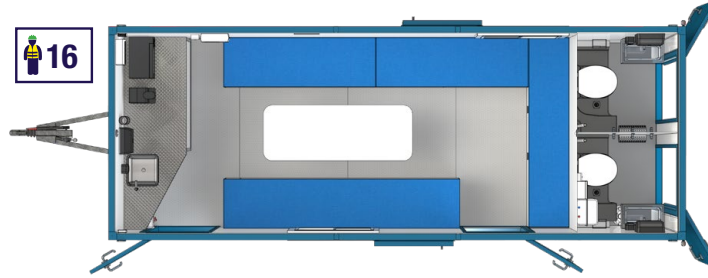
20

12



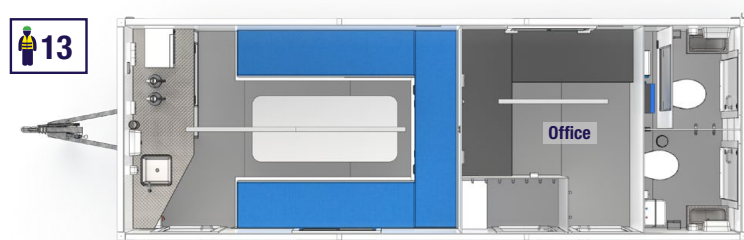
20 Xtra

16



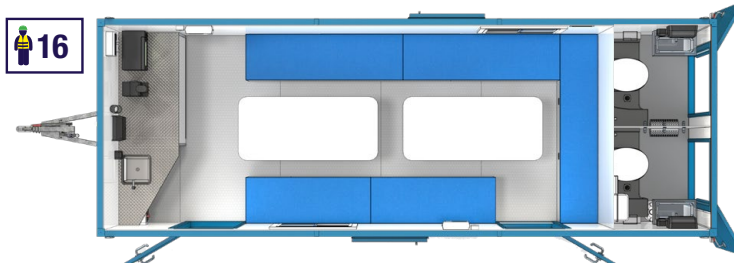
22.9

13



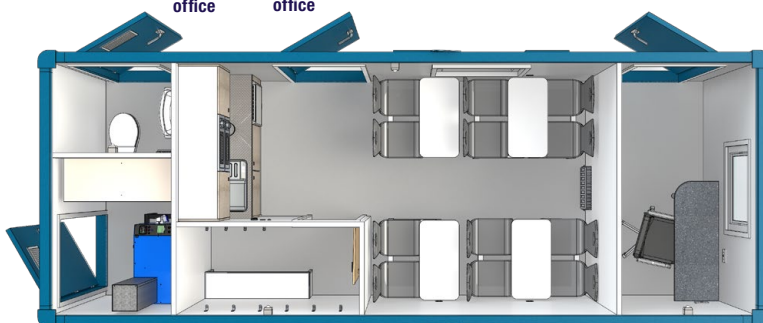
22.9 Xtra

16



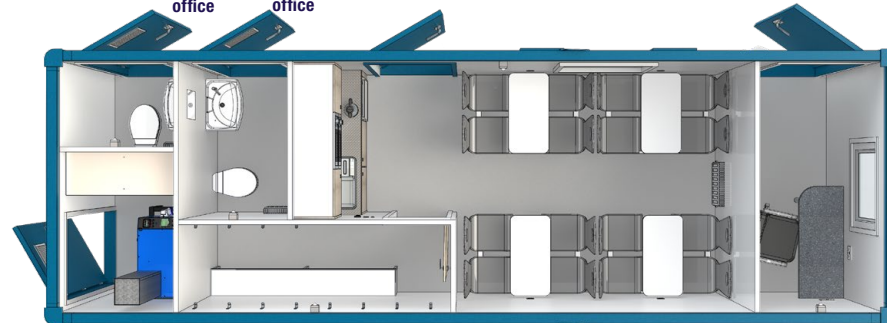
24

x13 with office
x20 without office



28

x17 with office
x24 without office



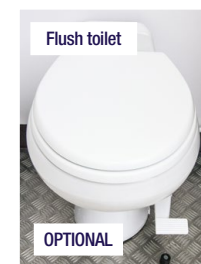
Canteen area



Toilet & wash facilities



Office space



Flush toilet

OPTIONAL



OPTIONAL

Heating & air conditioning



Hydraulic axle control



Heating




HEATING CONTROL




Comfortable seating

Static Cabin

Standard Features




MAX



3.5kVA Stage 5
HVO Generator

(No fossil fuels, low emissions)

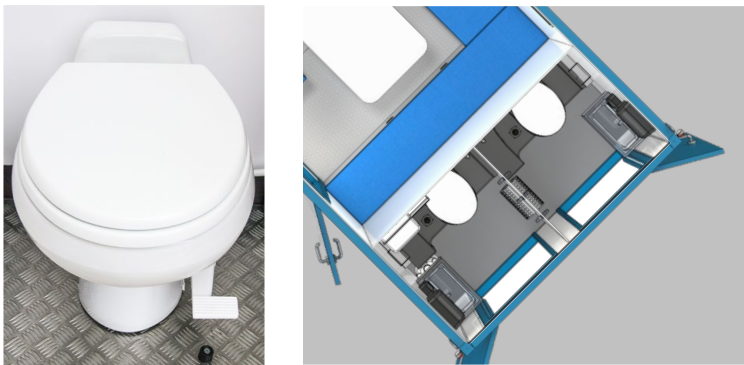
ZERO^{CO2}



Hydrogen
Fuel Cell

(Zero Local Emissions)

Choose Upgrades



Sustainability

- Large solar array, uses whole of the available roof space
- Large, powerful lithium battery banks power storage
- Zero fuel with solar panels
On summer days up to 100% of the power demands can be met from the solar panels only.
- Fully insulated walls and roof system with no cold bridging
- Rain water harvesting system provides water to toilets (optional)
- LED lighting & hot water without the need for the generator or fuel cell
- Low noise pollution
- Low fuel consumption
- Low or ZERO CO2 emissions
- No need for fossil fuels
- Automatic generator or fuel cell, stop/start technology for economical fuel usage
- All electrical systems and appliances available without the generator or fuel cell operating

Movability

- Lightweight easy to tow
- Soft cushioning Hydraulic system
- Balanced loading, with generator or fuel cell in the front, for better towing
- Accessible wheels. Ability in the event of a puncture to change at the side of the road with ease
- Road lights and number plate holder built in, No need for a tailboard to be fitted
- Accidental collision can occur, however our corners are designed to absorb impact and are easily maintained

Facilities

- Easy to use canteen facilities; hot water boiler, microwave & fridge
- Comfortable seating area
- Lots of storage space
- Warm water washing facilities
- Recirculating toilet
- Forearm wash basin in toilet
- All interior and exterior surfaces are tough, durable and wipe clean
- Spacious drying room with hanging clothes facility
- Drying room with heater or dehumidifier (Optional)
- (Optional) Dual toilets with pedal flush

Remote Monitoring

Power generation and flow at your finger tips 24/7. Access via WiFi or 4G connection.

- Fuel level monitoring and low level fuel alerts
- Battery power and monitoring displays
- Diagnostics and troubleshooting
- Event logging
- Fuel Cell & Generator controls, ON/OFF, load management
- Solar & Battery information
- UPGRADE to AJC Connect for an extra level of remote control and monitoring



Remote telemetry: Dashboard

Security / Safety

- Dual heavy duty locking system per door
- Robust galvanised exterior with high impact resistance
- Unique hydraulic system for setup in under 45 seconds
- Carbon monoxide detectors
- Hydrogen Gas detectors (ZERO only)

Battery Bank Cells



sub-zero
100Ah
Life Po4 Lithium Long Life Cycle Battery

Options

- Rain water harvesting systems
- Fresh flush ceramic toilet
- Dual toilets
- Combined Air conditioning / heating
- Diesel blown air heating system (Solar MAX ONLY)
- Full electric heating
- Wind turbine increases battery charging speed
- Tilted solar panels to increase solar gain in winter months
- Pin boards
- Extra storage / shelving
- External signage / branding
- Chapter 8 livery & reflective kit

Wind turbine upgrade:

Adjustable tower mounted to the chassis frame. Increase battery charging speed. > Greater than 99% system efficiency.



Heating Options:

We have 3 different heating systems to choose from.



Combined Air
Conditioning/heating



Full electric heating
outlets



AIR diesel heating
system (SolarMAX Only)



SUSTAINABLE

Solar technology

Solar hybrid patent pending technology for sustainable free energy to power the electronics.

EASY TO USE

Automatic operation

Just add fuel and use. The system will distribute power where it's needed and the generator will start/stop automatically.

FAST & EFFICIENT

Heating & hot water

Efficient heating provides more heat for less energy. Hot water is supplied on-demand, no waiting.

POWERFUL

Economical back-up

Efficient HVO generator or fuel cell waiting in the background to step in when the sun is not shining.

INTELLIGENT

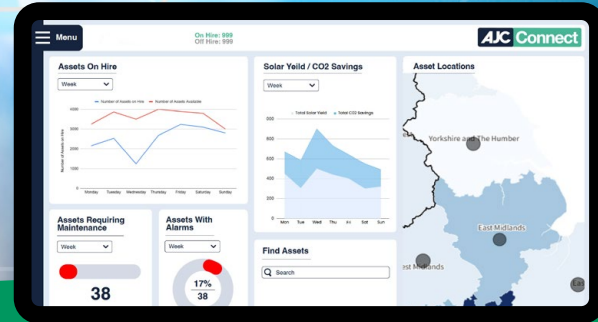
Ecosmart

Power management system, minimises power usage of the generator, to operate in the most efficient way possible.

AJC Connect

Monitor & control
your fleet assets
from anywhere.

UPGRADE

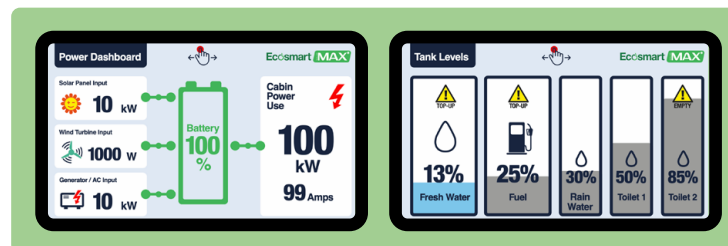


AJC Connect is a centralised asset management dashboard for organised oversight. Benefit from real-time tracking, ensuring continuous monitoring of the location and status of each system component. Achieve cost savings through efficient monitoring of maintenance, servicing, and resource allocation. Enhance security with GPS tracking and physical unit sensors.

Furthermore, delve into historical data analysis, recording, storing, and analysing critical metrics such as voltage and current. Develop a proactive preventative maintenance strategy informed by the rich historical data at your disposal. Elevate your asset management experience with our all-encompassing solution tailored for efficiency and security across the board.

On-unit Control Dashboard

Optional on any unit is a local control dashboard integrated with **AJC Connect**. Simple user controls and data readout for each appliance and system.



Level 1

Energy Usage Analytics:
Detailed insights into the power consumption of each unit.

Environmental Condition Monitoring:
Track temperature, humidity, and other environmental factors to ensure optimal conditions within the units.

Remote Control Capabilities:
Ability to adjust some settings and systems remotely.

Level 2

Advanced Management and Integration
(Includes All Level 1 +)

Comprehensive Asset Management:
Detailed tracking of each unit's performance, maintenance schedules, and overall health.

Integration with Existing Systems:
Seamless compatibility with the unit's current operational systems for a unified approach.

Predictive Maintenance:
Utilise data trends to predict and schedule maintenance, reducing the likelihood of downtime.

Level 3

Full Optimisation and Automation
(Includes All Levels 1&2 +)

Advanced Optimisation:
Utilise external data trends to perform energy optimisation and automated adjustments. Automated Scheduling: Schedule maintenance, energy adjustments, and other tasks automatically, based on realtime and historical data.

Customised Reporting and Insights:
Tailored reports providing deep insights into unit usage, efficiency, and operational trends.



After care & Support

We have dedicated support teams to help you with every part of your journey with us.

We are more than just a manufacturer. Your success is the key to our success.

- Sales Support
- Marketing Support
- Delivery / Handover
- Product Training
- Service Support
- Technical Support
- Parts / Upgrades

Technical advice & training

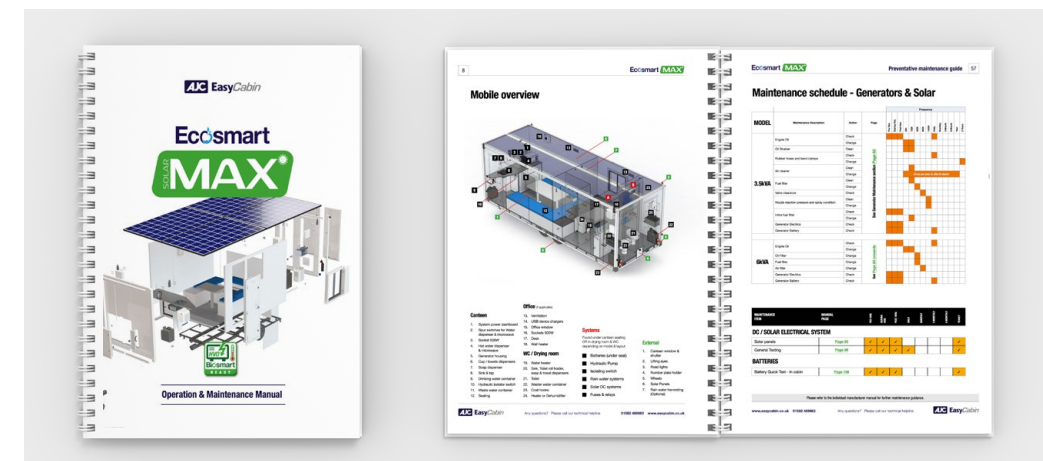
We have a dedicated team of engineers UK wide. Ready to respond with remote phone support or at your location.

We offer full training courses in all aspects of maintenance and operation.



User Manual & Service Guide

A comprehensive owners guide. Every part of the unit is covered, from End user guides to individual parts servicing, troubleshooting and maintenance.



Ecosmart 16 Fuel Efficiency Comparison

To illustrate the fuel & emissions saving potential of our welfare units see below data for a 16FT welfare unit.

A full, individual data presentation for each combination of size / layout / system is available on request.

16 1 Year energy use*	Gen Run Hours	Litres Used	Diesel Cost £	Diesel CO ₂ e KG	HVO CO ₂ e KG	Litres Fuel Reduced by %	Fuel Cost Savings £
Non-hybrid 6kVA Welfare Unit	2600	2600	£ 4,420	7083	708	----	----
Ecosmart	976	879	£ 1,494	2394	239	66.2%	£ 2,926
Ecosmart Solar	859	773	£ 1,315	2107	211	70.2%	£ 3,105
Ecosmart 'Air' Diesel Heating	843	783	£ 1,330	2132	213	69.9%	£ 3,090
Ecosmart 'Air' Diesel Heating Solar	667	624	£ 1,061	1701	170	76.0%	£ 3,359
Autosmart	761	725	£ 1,232	1974	197	72.1%	£ 3,188
Autosmart Solar	592	573	£ 974	1561	156	77.9%	£ 3,446
Ecosmart MAX	168	151	£ 257	413	41	94.1%	£ 4,163
Ecosmart MAX 'Air' Diesel Heating	93	107	£ 183	293	29	95.8%	£ 4,237
	Fuel Cell Run Hours	Bottles H2 used	H2 Cost £	Local CO₂e KG			
Ecosmart ZERO	505	72	£ 4,327	Zero			- £ 93

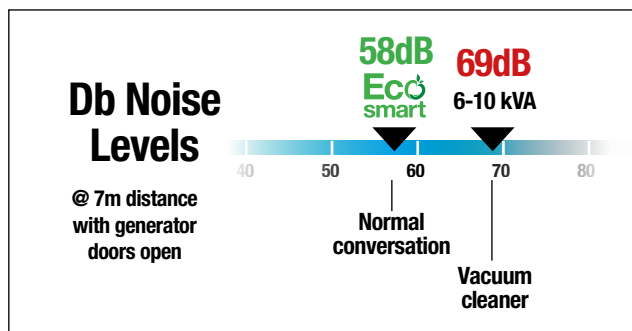
*

Based on 10 hours per day for 260 days, 80 days in winter mode and 180 days in summer mode. Each day is a typical usage day. 6 Persons accommodated.

£1.70p per litre Diesel / HVO
£ 60 per H2 Bottle

Solar panels achieve maximum output in direct sunlight, but they work in normal daylight and cloudy weather too. The amount of power a solar panel or charging kit generates in cloudy weather will be lower compared to direct sunlight. Also the positioning of the cabin will affect the solar charging of the batteries i.e. under trees, etc.

This assessment doesn't take in consideration the usage of the hydraulics
This assessment is guidance only



Award winning welfare Designed & built in the UK

AJC **EasyCabin**

2020 / 21 Winners
THE INTERNATIONAL CSR EXCELLENCE AWARDS
for companies that have a heart

2020 Hire Industry Product Of The Year.
Hire Awards of Excellence

GREEN APPLE ENVIRONMENT WINNERS 2023
WINNERS 2023

www.easycabin.co.uk **01582 486663** **info@easycabin.co.uk**

DESIGNED & BUILT IN THE UK EasyCabin Head Office & Factory, Unit 10, Cosgrove Way, Luton, Beds, LU1 1XL

FOOTNOTES

As part of our on-going commitment to improvement we reserve the right to alter specifications, designs or figures, without prior notice. All dimensions and weights are approximate.
A full energy presentation is available on request.

Solar panels achieve maximum output in direct sunlight, but they work in normal daylight and cloudy weather too. The amount of solar power generated in cloudy weather will be lower compared to direct sunlight. Also the positioning of the cabin will affect the solar charging of the batteries i.e. under trees, etc.

<https://www.gov.uk/government/publications/greenhouse-gas-reporting-conversion-factors-2023>

v-02/2024