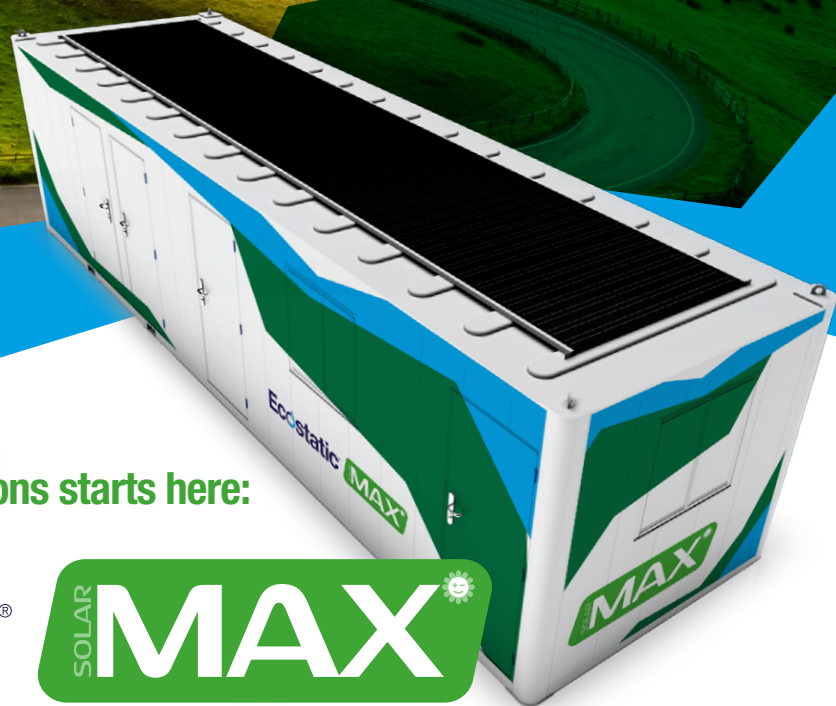


AJC *EasyCabin*

**Hybrid off-grid power
supply and welfare
combined.**



Your journey towards ZERO emissions starts here:

Ecostatic® **SOLAR MAX**

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.

Backup HVO Stage V Generator

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

Off-grid Site Power Supply

External 3 phase output socket to power other cabins.



Start your journey
towards **ZERO**
Emissions.

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.

Self contained welfare units with external hybrid power supply.

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.

Ecostatic Solar MAX offers a welfare solution for companies that are working to meet the demands of future CO² reduction and clean air targets.

With increased focus on the reduction of carbon footprint and the prioritisation of corporate social responsibility issues, there is a real demand for industries to adopt alternative power whilst maintaining reliability and cost effectiveness.

The Ecostatic Solar MAX hybrid system provides an opportunity to both reduce operating costs and increase environmental performance. The systems are silent most of the time and only engage the backup generator when absolutely necessary.

Ecostatic Solar MAX have been designed to have the same user friendly operation as standard Ecosmart welfare unit. Power to run the heating, sockets, kettle, microwave & other connected units comes instantly from the large battery bank. The batteries are constantly fed by the large, powerful solar panels.

LOW
CO²

No fossil fuels

With HVO fuel used as a back up.



Zero fuel with solar panels

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



More peace and quiet

Less generator time. Less noise and vibration.



On-demand power

On any appliance in the cabin and to external sockets



Efficient power management

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

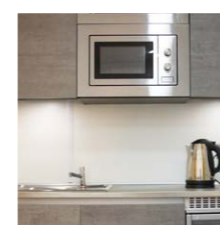


Remote telemetry

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

**External 3
phase power
output on
larger models**

**Full roof of
super efficient
solar panels**



Kettle & Microwave



Lighting



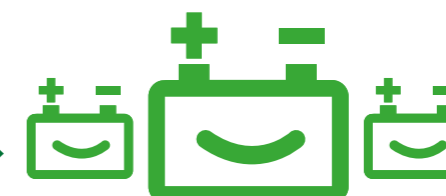
Hot water



Heating & Air-con



Sockets



**Large powerful
battery bank**

Eco smart

Power management
system keeps
generator use to
a minimum.



Backup power
on stand by
just in case!

External

- Walls:** Flat-sided heavy-duty steel with low level lifting eyes. Fully insulated easy clean interior finish.
- Doors:** High Security doors with deadlock mechanisms. All doors have anti-jemmy design and security hinges.
- Roof:** Heavy-duty steel roof, fully insulated, easy clean interior finish.
- Windows:** UVPC Double glazed with security covers.
- Floor:** Plywood finished in grey polyfloor XL.

Features

Facilities

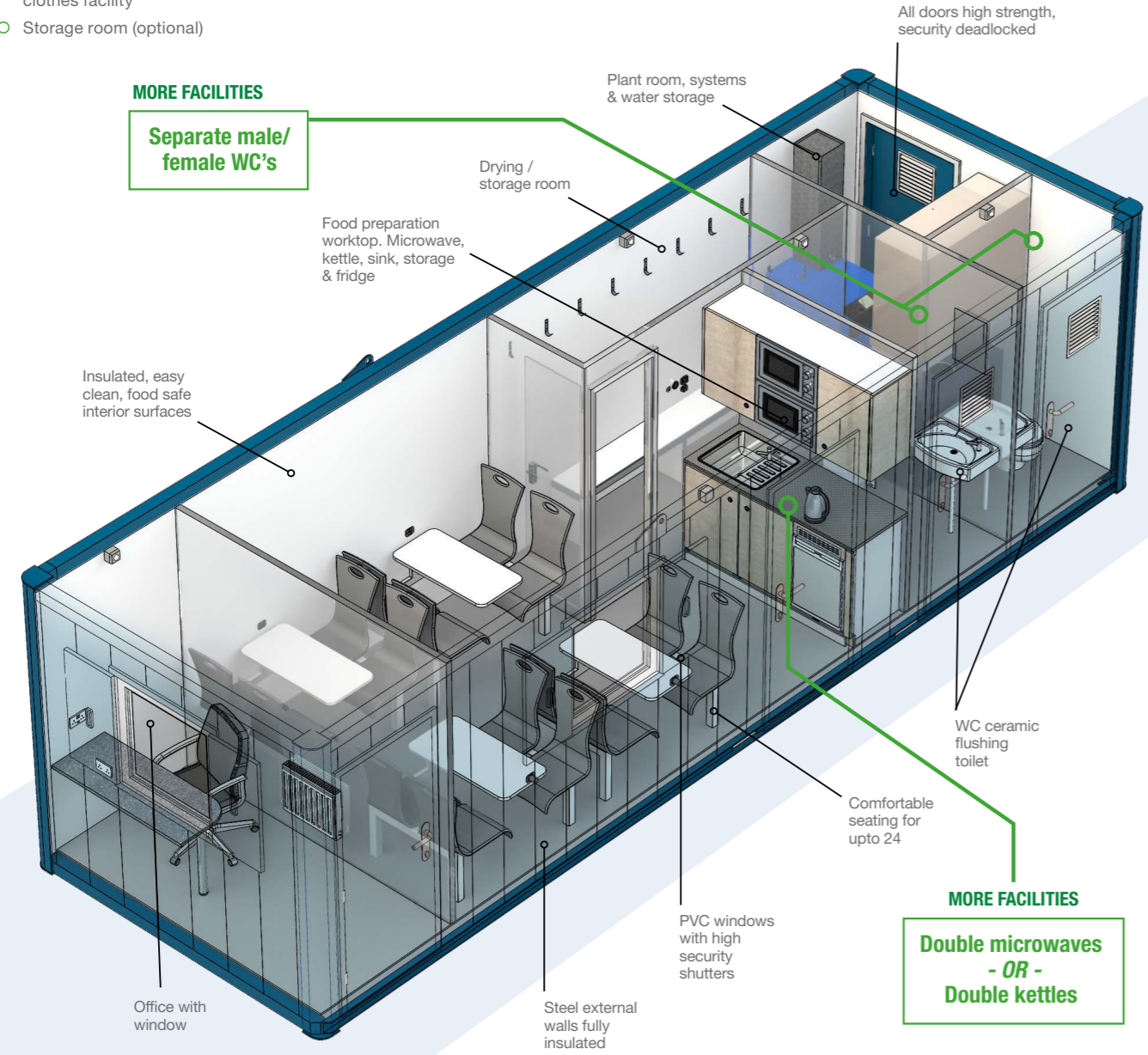
- Easy to use canteen facilities; 2x kettles OR 2x microwaves
- Built in refrigerator
- Comfortable spacious seating area
- LED lighting & hot water
- Separate office area
- Easy to use cabin controls
- USB device charging points
- Warm water washing facilities
- 2x Recirculating toilets (1x on 24)
- Forearm wash basins
- All interior and exterior surfaces are tough, durable and wipe clean
- Spacious drying room with hanging clothes facility
- Storage room (optional)

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
- 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

Security / Safety

- Dual heavy duty locking system per door
- Robust galvanised exterior with high impact resistance
- Carbon monoxide detectors



Ecstatic
24
MAX

Ecstatic
28
MAX

Off-grid hybrid welfare units.

6 kVA

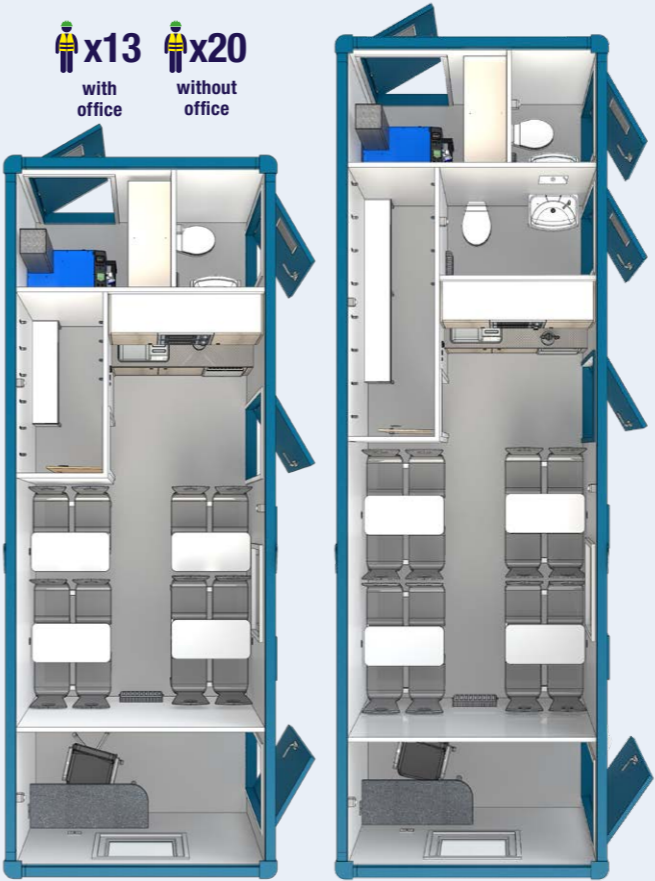
Backup HVO generator

Large solar array, uses whole of the available roof space. Large, powerful 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.

x13 with office
x20 without office

x17 with office
x24 without office



Ecstatic
32
MAX

Ecstatic
40
MAX

Off-grid hybrid welfare with external power supply for connected units.

30-60 kVA

3 Phase External Power socket

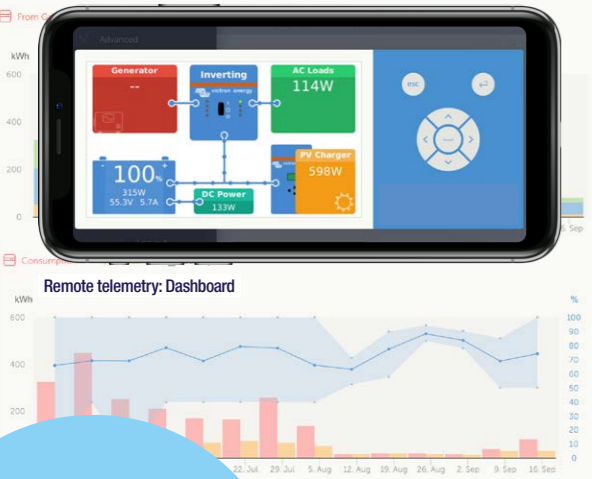


- ✓ Reduce CO² emissions
- ✓ Reduce Noise
- ✓ Reduce Fuel costs

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



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.

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.

- Options**
- Air conditioning
 - Diesel blown air heating system
 - Wind turbine increases battery charging speed
 - Tilted solar panels to increase solar gain in winter months
 - Pin boards
 - Extra storage / shelving
 - External signage / branding



Wind turbine upgrade:

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

UK wide
Support



We have a dedicated service department, ready to respond.

- UK Wide on-site servicing and repair
- Over the phone technical support
- Diagnostics and troubleshooting
- Hydrogen Fuel Cell experts
- Solar & battery experts
- Comprehensive training packages
- Welfare fleet care
- Detailed product manuals
- Online Parts shop for account customers





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 coming 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*

Power output models

EcoStatic MAX 32 & 40		MAX 3P 30kVA		MAX 3P 60kVA					
OUTPUT POWER	Prime Rating @ 25°C	85Amp / 25kVA / 20kW		100Amp / 30kVA / 24kW		200Amp / 60kVA / 48kW		125Amp 3P / 60kVA / 48kW	
	AC Output Voltage	50Hz, 230V							
	Output Connections	5 x 32A single phase IP67 CEE Socket outlets, RCBO protected OR 1 x 125A single phase IP67 CEE Socket outlet, RCBO protected.		5 x 32A single phase IP67 CEE Socket outlets, RCBO protected OR 1 x 125A single phase IP67 CEE Socket outlet, RCBO protected.		10 x 32A single phase IP67 CEE Socket outlets, RCBO protected		1 x 125A three phase IP67 CEE Socket outlet, RCBO protected OR 5 x 32A single phase IP67 CEE Socket outlets, RCBO protected AND 1 x 125A single phase IP67 CEE Socket outlet, RCBO protected.	
	Additional output connections	16A							
	Solar panels (on board)	4.5kVA / 3.6kW							
INPUT POWER	Solar panels (plug & play)	Additional up to 8.75kVA / 7kW (running at 45 to 65 volts)							
	Generator backup power	17.3kVA / 13.8kW		25kVA / 19.8kW		35kVA / 28kW			
	Generator Standard (EU) 2016/1628	N/A		STAGE V (EU) 2016/1628					
	Fuel Types	Standard Diesel: EN590:96 BS 2869 - A1 or A2 Alternative fuels from ONLY recognised/authorised suppliers: Bio Diesel B5 EN14212 / HVO EN15940 / GTL EN15940 / BTL EN15940							
	Fuel Consumption	Fuel is only used when the generator is active. Generator is constantly in AUTO and only activates when required; battery charging and/or high load spikes. NOTE: Using alternative fuels can reduce generator power rating by 4-8%							
		100% load: 5.6 Litres per hour 75% load: 4.6 Litres per hour 50% load: 2.8 Litres per hour 25% load: 1.4 Litres per hour		100% load: 6.2 Litres per hour 75% load: 5.0 Litres per hour 50% load: 3.1 Litres per hour 25% load: 1.6 Litres per hour		100% load: 7.8 Litres per hour 75% load: 6.1 Litres per hour 50% load: 4.2 Litres per hour 25% load: 2.5 Litres per hour			
	Fuel tank capacity	400L							
	Grid Connection (optional)	20kW		20kW		60kW 3 Phase			
	STORAGE	Type	AGM (Absorbent Glass Matt)						
Capacity @ 25°C		20.5kW		20.5kW		41kW			
Charge Time (hours approx)		3		3		4			
Service life (years)		> 5		> 5		> 5			
CONTROL	System Controls (All models)								
	Soft start timer	24/7 manually operated timer with soft start functionality to prevent overloading							
	Generator telemetry (optional)								
ENVIRONMENT	Operating Temperature Range (°C)	-20°C to +55°C Humidity (non-condensing): max 95%							
	Solar panels - Max physical load	Wind: 4000 Pa, 408 kg/m² front & back Snow: 6000 Pa, 611 kg/m² front							
	Solar panels - Impact Resistance	25 mm diameter hail at 23 m/s							
MECHANICAL	Static Model Dimensions (mm)	Length – 3200mm Width closed – 2250mm Width open – 5298mm Height – 2518mm							
	Mobile Model Dimensions (mm)	Total Length Inc. Draw Bar & Steps – 5220mm Box Length – 3200mm Width closed – 2250mm Width open – 5298mm Height – 3080mm							
	Static Model Weight (kg)	3800kg		4050kg		4650kg			
	Mobile Model Weight (kg)	3500kg							
	Static Model Lift Points	Forklift pockets / bottom lift + lifting guides							
	Mobile Model Lift Points	OPTIONAL							



To illustrate the fuel & emissions saving potential of our welfare units see below data for a 24FT static welfare unit.

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

28 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	----	----
Autosmart	1115	1640	£ 2,789	4469	447	36.9%	£ 1,631
Autosmart Solar	754	1135	£ 1,930	3093	309	56.3%	£ 2,490
Ecostatic MAX	362	544	£ 925	1481	148	79.1%	£ 3,495
Ecostatic MAX 'Air' Diesel Heating	182	353	£ 699	962	96	86.4%	£ 3,721
	Fuel Cell Run Hours	Bottles H2 used	H2 Cost £	Local CO₂e KG			
Ecostatic ZERO	1087	155	£ 9,321	Zero			- £ 4,901

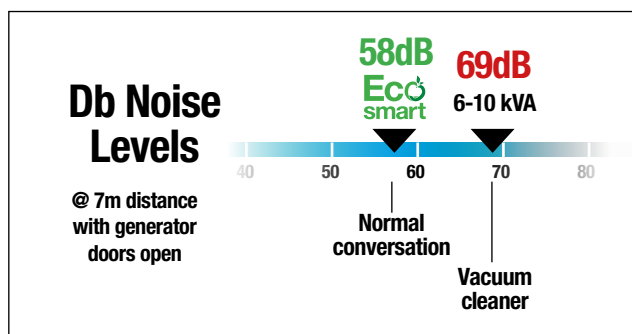
*

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. 17 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**

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>