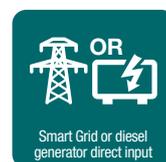
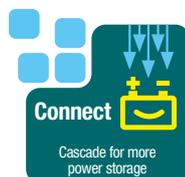


# Battery Pod

Reduce fuel costs, emissions & noise.





# Battery Pod

Battery Energy Storage System

## Responsive energy storage for sites large & small.

The Battery Pod reduces noise pollution, carbon emissions and fuel costs associated with power provision by storing energy to provide offline power to your site.

Energy can be stored from multiple sources and channelled to where it's needed automatically when demand is high.

The Battery Pod is designed to be modular and plug 'n' play. Insert the unit in between your grid power or generator and your units. Add more Battery Pods for more sustainability.

There are 5 model sizes, with a choice of power and storage options depending on your power needs and application type.

Fully automatic, all you need to do is plug-in, switch on. Your generator is now the back-up! Noise and generator running times are reduced.

The Autosmart system takes care of all the power inputs to charge the batteries and manages the power output. Plug-in your site generator and the Battery Pod will control the generator run time to keep up with power demands.

For large site set ups, multiple Battery Pods can be used. Cascade Multiple Battery Pods to increase storage capacity resulting in longer run times and better returns.

The Battery Pod is designed to work in harmony with other AJC Power Solutions products to increase efficiency further. Adding the Solar Smart Panels into the mix, speeds up battery charge times and lowers dependence on the grid and your backup power generator.

## ULTIMATE FLEXIBILITY: Store energy in many combinations



Smart Grid

1 or more Battery Pods



Compatible Generator

1 or more Battery Pods



Smart Grid & Compatible Generator

1 or more Battery Pods



## Possible Applications

- Construction Sites
- Temporary offices
- Outdoor events
- Indoor events
- TV & Film sets
- Grid backup
- Grid peak shaving
- Pumping applications
- Telecoms BTS
- Commercial buildings

*and many others.*



**Storage expansion.**

Multiple Battery Pods can be cascaded together, resulting in extended storage capacity.

**Example:** 3x Cascaded 45/150's = 1x 45/450 power solution.

**5 sizes for maximum flexibility across many applications.**

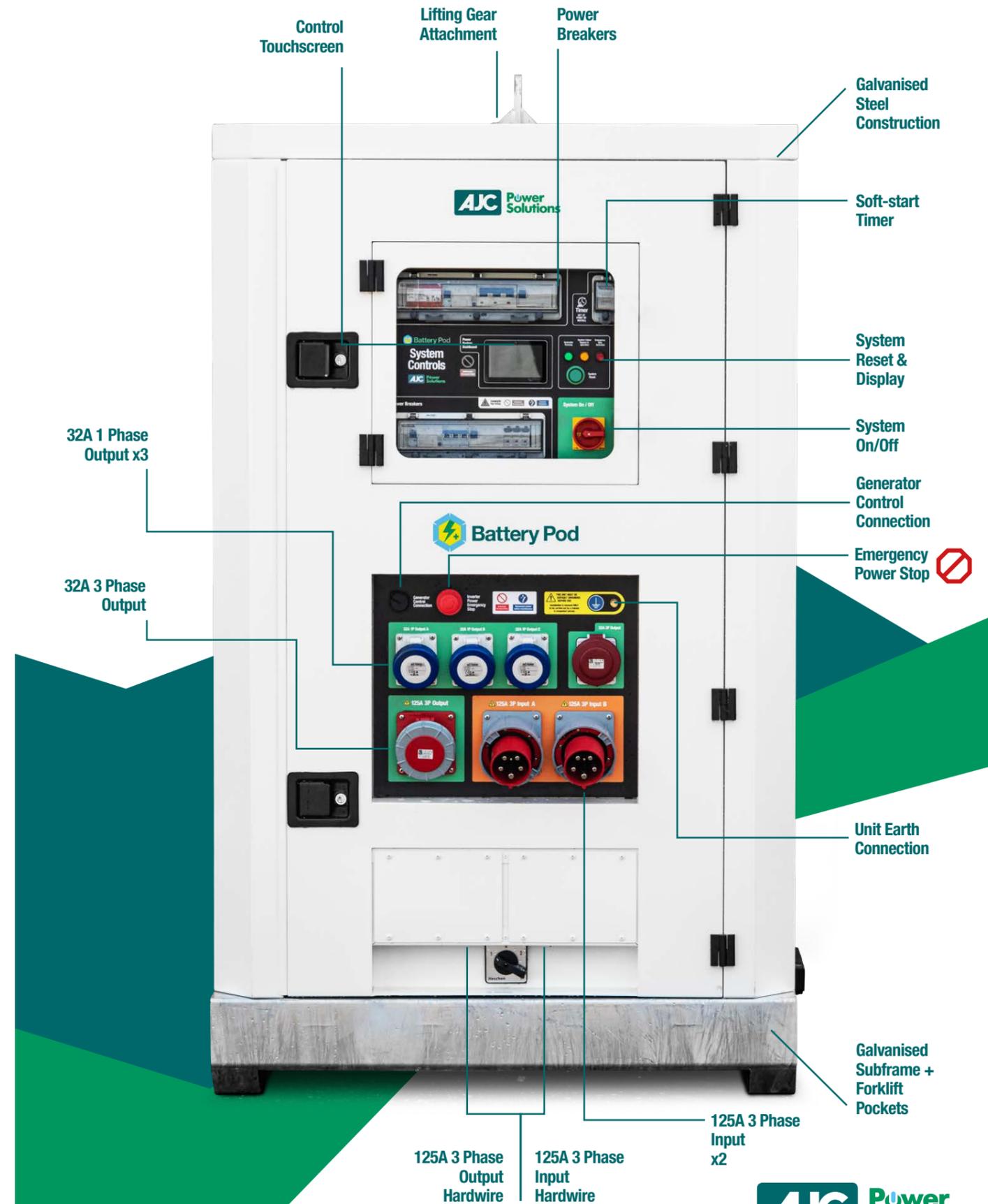
Our product range is also configurable to suit your specific requirements, talk to us to find out more.

The Battery Pod is pair-able with a wide range of generators (20 > 250kVA).

Optional paint colours & custom decal design to match your brand.

**Designed with great features as standard.**

<p><b>Connect</b> Cascade for more power storage</p>	<p><b>Protect</b> Against power drop-outs and inconsistency</p>	<p><b>Emergency Stop</b> Complete site shutdown</p>	<p><b>OR</b> Grid, solar, wind or generator direct input</p>
<p><b>Emissions</b> REDUCED</p>	<p><b>Plug &amp; Play</b> Plug and play or hardwire options</p>	<p><b>Control</b> Remote controlled with telemetry data display</p>	<p>Works in harmony with Solar Pod &amp; Solar Smart</p>
<p><b>Bypass system</b> Ensures power delivery</p>	<p><b>sub zero</b> Effective battery operation below 0°C</p>	<p><b>LOW</b> Silent Running. Reduce risk of noise complaints</p>	<p><b>Auto smart</b> Automatic operation and power switching</p>



Model	Battery Pod 15/30	Battery Pod 30/80	Battery Pod 45/100	Battery Pod 45/150	Battery Pod 90/250	Battery Pod Bespoke	
STORAGE	Lithium Iron Phosphate						
	Capacity @ 25°C	30 kWh	80 kWh	100 kWh	150 kWh	250 kWh	Up to 1 mWh
	Number of Cycles	Up to 5000					
	Charge Time* (Average hours based on input)	2	3.5	4	6	6 - 8	-
OUTPUT	AC Output Voltage	Single Phase 240 V	3 Phase 415 V			Single or 3P	
	Frequency Hz	50 Hz				50 Hz / 60 Hz	
	Output Connections	1x 32A Single Phase Or 2x 16A Single Phase	1 x 125A three phase IP67 CEE Socket outlet, RCBO protected 1 x 32A three phase IP67 CEE Socket outlet, RCBO protected 3 x 32A single phase IP67 CEE Socket outlet, RCBO protected		To be Specified on order	To be Specified on order	
	Sustainable Rated Power	15 kVA	30 kVA	45 kVA	45 kVA	90 kVA	Up to 400 kVA
	Continuous Sustainable Power						
	Max Feed Through Current (Bypass)	63 Amp Single Phase	100 Amp 3 Phase	400 A 3 Phase		Up to 400 A	
INPUT	Max Input (Grid/Generator)	32 A	100 Amp 3 Phase	400 A 3 Phase		Up to 400 A	
	Input Connection (Grid/Generator)	32 A	2x 125 A (3 phase) + Hardwire via busbar connection			To be Specified on order	
	Input Voltage Range	187 - 265 VAC					
	Input Frequency	45 - 65 Hz					
	Max Feed Through Current (Bypass)	63 Amp Single Phase	100 Amp 3 Phase (Optional upgrade to 400 Amp)	400 Amp 3 Phase			
	Solar Input	Optional upgrade available					
CONTROL	System Controls (All models)	Victron / Accessible by on-unit dashboard or remote WiFi connection via App					
	Soft start timer (Patent Number GB2582008)	24/7 manually operated timer with soft start functionality to prevent overloading					
	Generator Autosmart	Plug N Play 3rd party generator input with automatic Start/Stop					
ENVIRONMENTAL	Operating Temperature Range (°C)	-20°C to +45°C		Humidity (non-condensing): max 95%		AJC SubZero Batteries with heated lithium	
MECHANICAL	Dimensions (mm) Approx	1410(L) x 1240(W) x 900(H)	1410(L) x 1240(W) x 1680(H)	1650(L) x 1240(W) x 2090(H)	2070(L) x 1240(W) x 2090(H)	3000(L) x 1240(W) x 2090(H)	To be Specified on order
	Weight (kg) Approx	500 kg	1250 kg	1500 kg	2300 kg	3800 kg	4000 + kg
	Lift Points	Fork lift pockets + Top lifting gear attachment					



- Low power / fuel alarm & monitoring.
- Generator control; load management, optimised quiet hours and scheduled runs.
- Enhanced system management.
- Ability for users to program custom logic sequences.
- System commissioning/ decommissioning assistants.
- Troubleshooting assistants & diagnostics.
- User friendly graphical performance & event logs.
- Enhanced environmental control.
- Remote communication, monitoring & control.

Powered by AJC PS SubZero



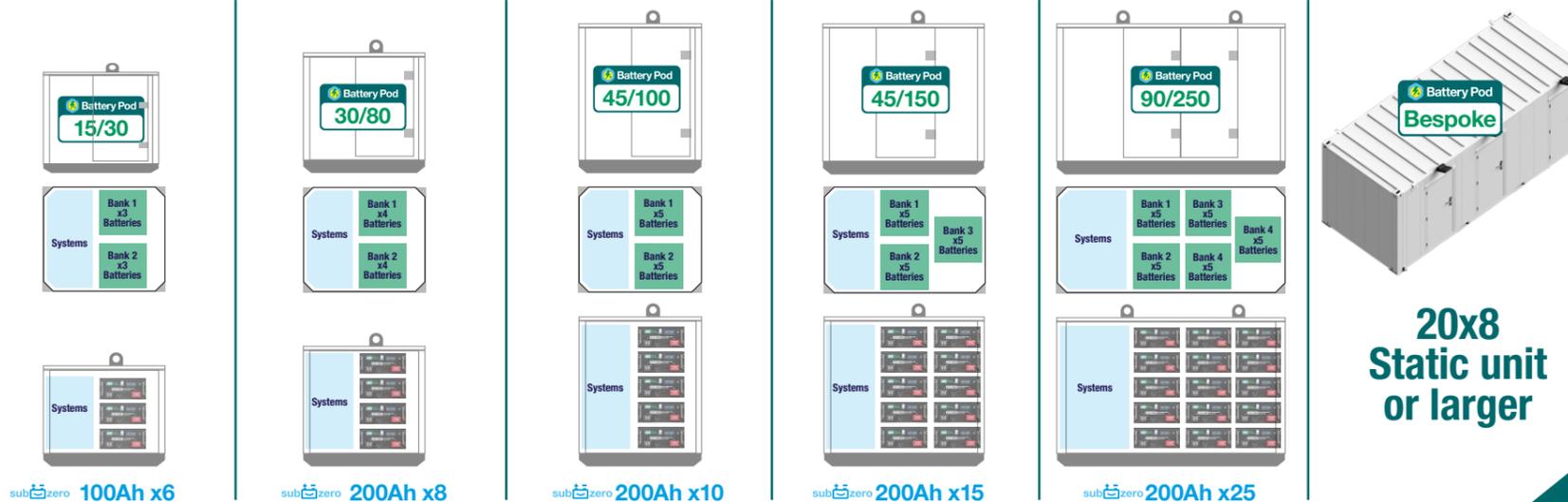
LiFe Po4 Lithium Long Life Cycle Batteries



Side View

Top View

X-Ray



20x8 Static unit or larger

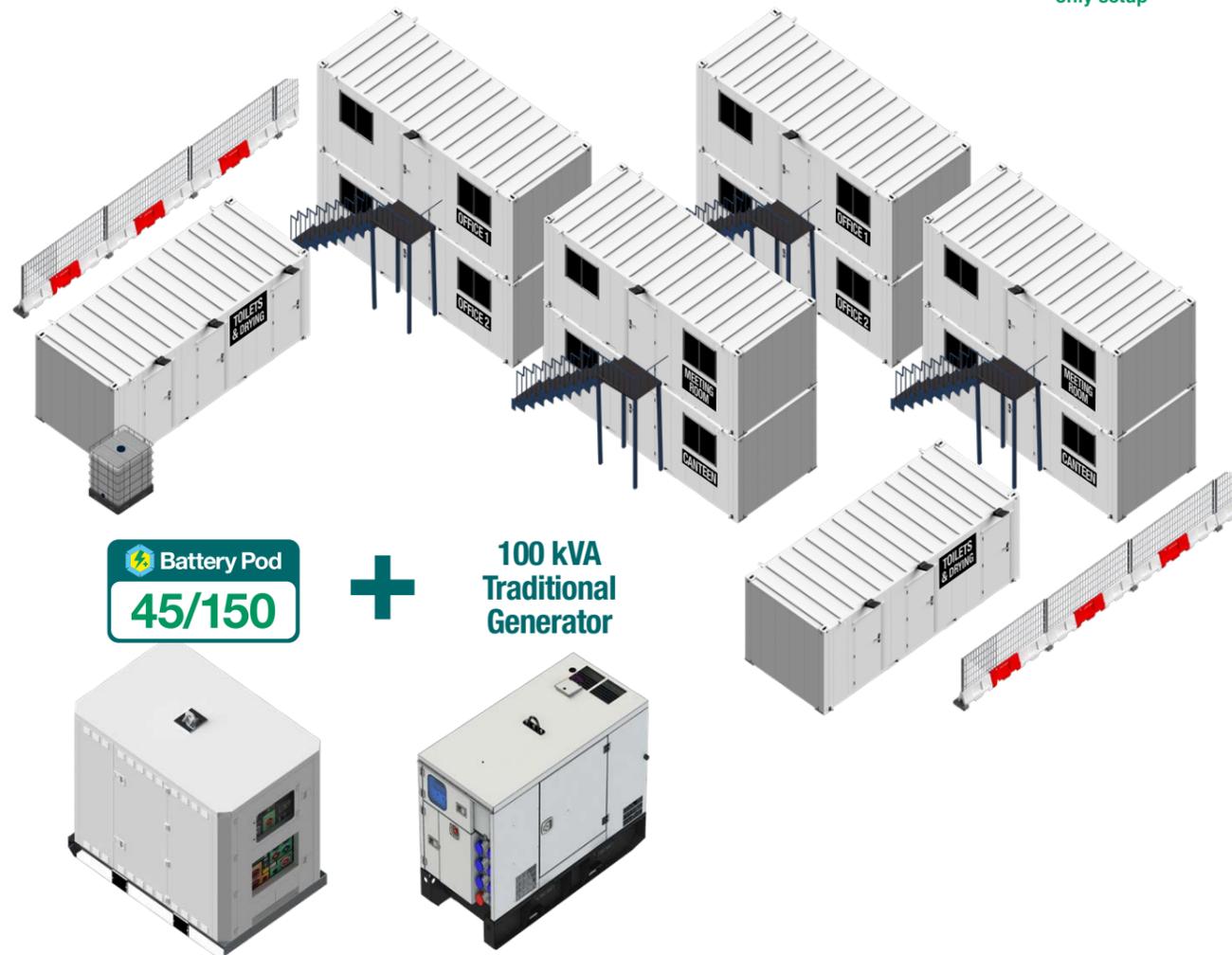
# Example Site

10x Site Cabins 1x Water Bowser

+  Battery Pod

Typical Fuel / CO<sup>2</sup> Reduction  
**+50%**

Compared to a traditional generator only setup



## Savings over 1 year

45/150 Battery Pod paired with a 100kVA Generator.

Site running 10 hours a day over 40 weeks

**33,600 Litres Diesel**  
EN 590

**£50,400 Diesel**  
@ £1.50 per litre

**90,720 kg CO<sup>2</sup>**  
@ 2.7 kg per litre

**£2,800 Gen. Servicing**  
@ £400 x 7 service visits

# Example Site

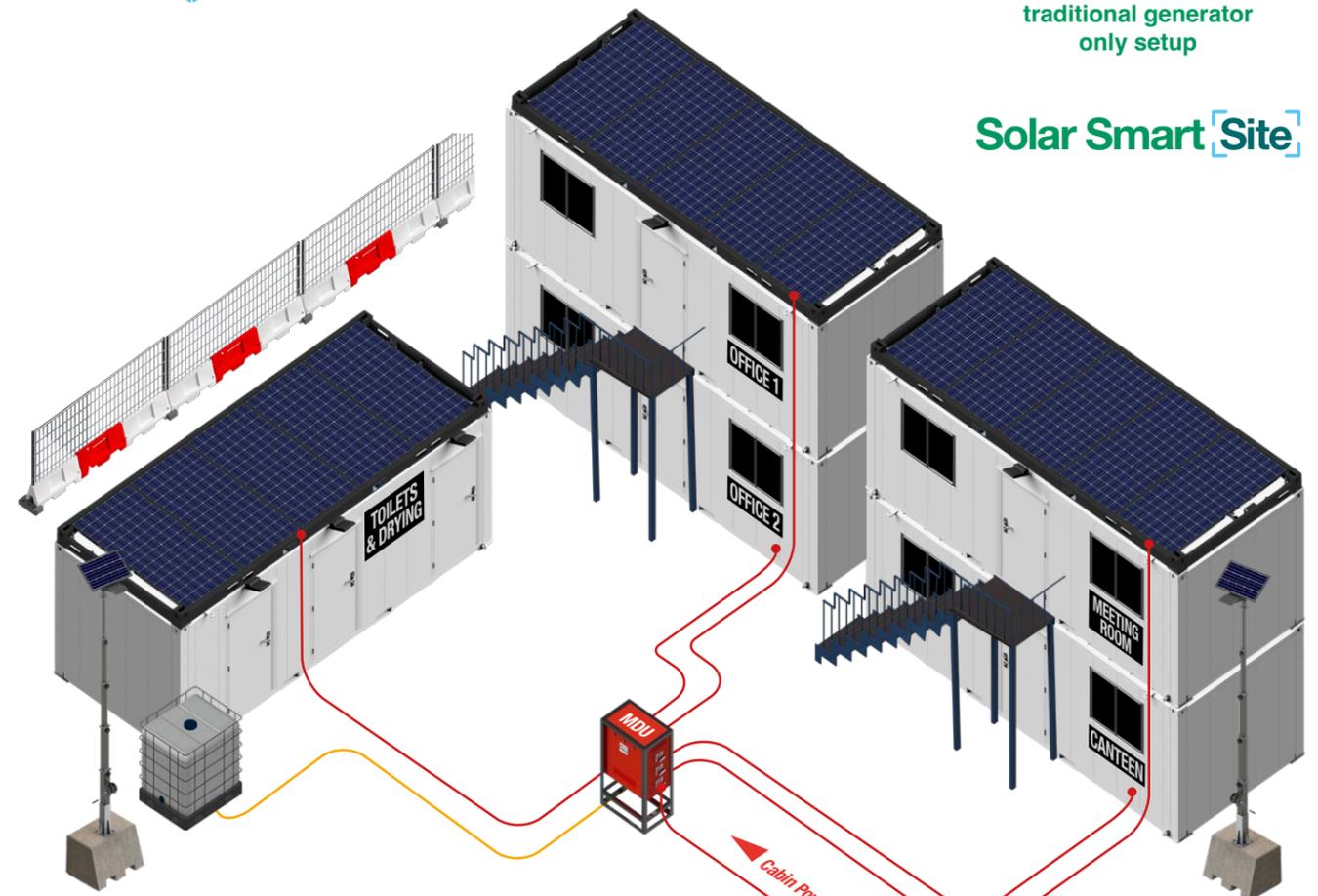
5x Site Cabins 1x Water Bowser

+  Battery Pod

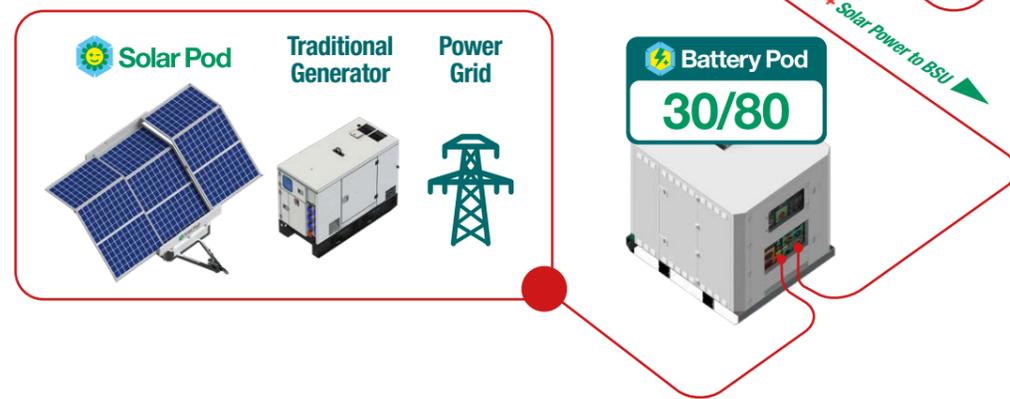
+ x3  Solar Smart

Typical Fuel / CO<sup>2</sup> Reduction  
**+60%**

Compared to a traditional generator only setup



Solar Smart  Site



**NOTE:** This is not a wiring diagram.  
For power flow illustration purposes only.  
Site set-ups may vary.

## On-unit Control Dashboard

On every Battery pod is a local control dashboard integrated with **Victron Connect**. Simple user controls and data readout for each input and output.

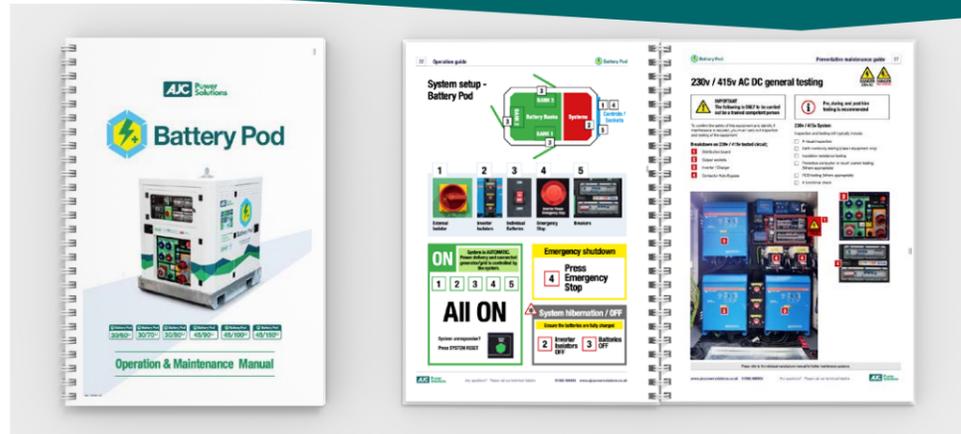


360°  
Service

## After care & Support

### User Manual & Service Guide

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



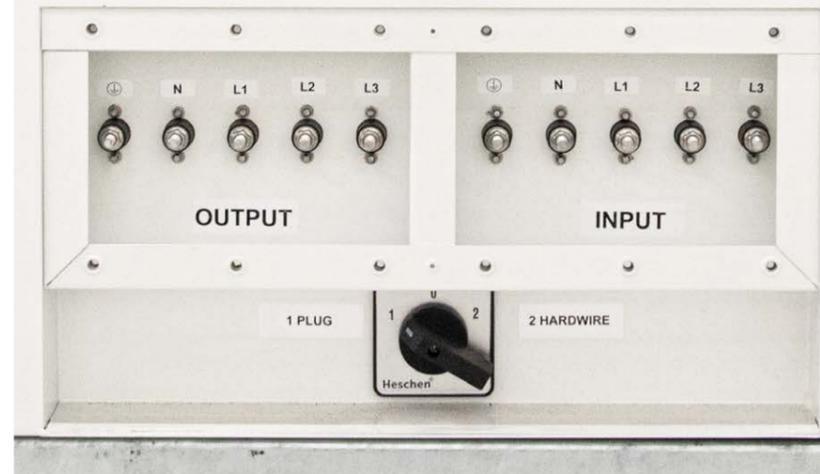
### Technical advice & training

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.



Hardwire inputs



# Solar Smart [Site]

Connect Battery Pods with Solar Smart Panels & Solar Pods to save more energy.  
Power large and small sites. Scale up or down with your project needs.



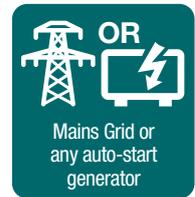
Solar Pod



Battery Pod



Solar Smart



All together / Any combination / Multiples of each



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



**Power Solutions**



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01582 486663

[info@ajcpowersolutions.co.uk](mailto:info@ajcpowersolutions.co.uk)

DESIGNED & BUILT IN THE UK

AJC Trailers, Head Office & Factory, Unit 10, Cosgrove Way, Luton, Beds, LU1 1XL

#### FOOTNOTES

I. Annual solar input based on 10 hours per day, 80 days in winter mode and 180 days in summer mode. Each day is a typical usage day.

II. Solar panels achieve maximum output in direct sunlight, but they work in normal daylight and cloudy weather too. The amount of power a 48v solar panel or charging kit generates in cloudy weather will be lower compared to direct sunlight. Also the positioning of the unit will affect the solar gain i.e. under trees, etc. Solar assessment is based at Luton, Bedfordshire, UK.

III. This assessment is guidance ONLY. 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.