# Charge Pod

Patent Pending

## Tool charging - Right where it's needed.

Self-powered & automatic
No plug-in required


## Autonomous hybrid power supply for tool and device charging.

- Secure lockers
- Built in solar panels & battery storage
- Diesel/HVO generator on stand-by just in case.
- HVO Biosmart READY

AJC EasyCabin

Hybrid power is easy.

DESIGNED & BUILT IN THE UK

# Charge Pod

**Keep tools charged close to where they are needed.**

**Designed to charge multiple battery-powered tools and hand-held devices.**

**Reduce temporary electrics and cables on your site.**

Locate a Charge Pod next to where staff are working and increase productivity. No more trips back-to-base to charge and collect tool batteries.

The Charge Pod (patent pending) significantly reduces carbon emissions and fuel costs associated with tool charging by harvesting solar energy to provide free power to your sites.

Complete with a backup HVO compatible generator or hydrogen fuel cell, the built in Ecosmart system efficiently manages the power supply between solar PV, battery bank and generator. Our Autosmart system ensures that all the end user needs to do is switch on and use.

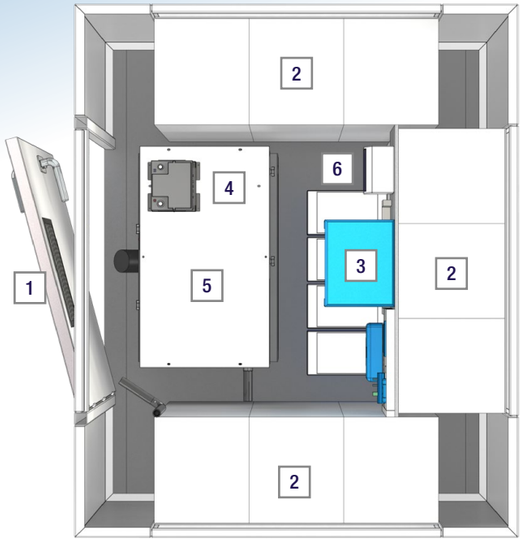
There are up to 36 lockers, ready for your workers to have individual access and keep their items safe while charging. Larger lockers are available in the layout if needed.

Each locker has two 230V 3pin sockets plus two USB 2.0 sockets.

Each door is water proof, sealed with rubber seals all round to keep wind and rain out. Each locker is vandal proof and secure. Available with key or code access.


For extra piece-of-mind there is an optional Integrated Handwash Station.

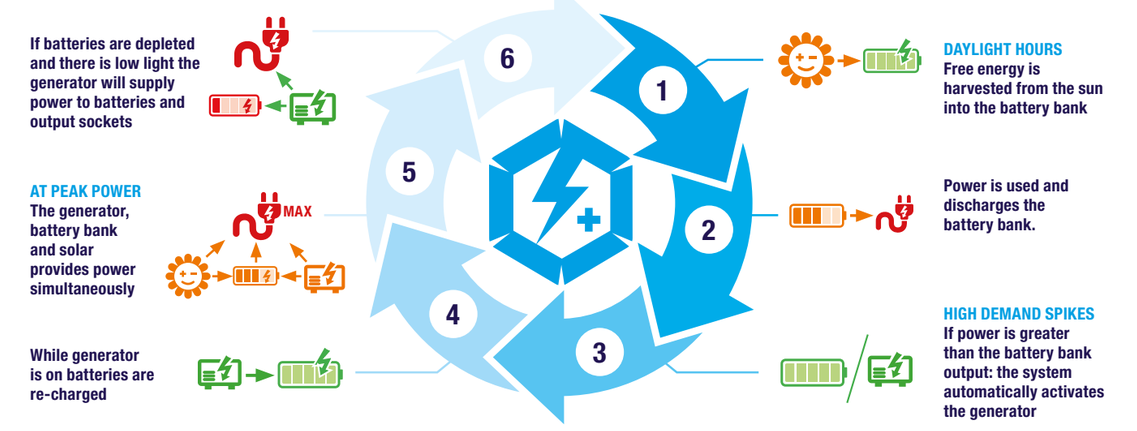
Optional ZERO emission power: We can swap the diesel generator with a hydrogen fuel cell.

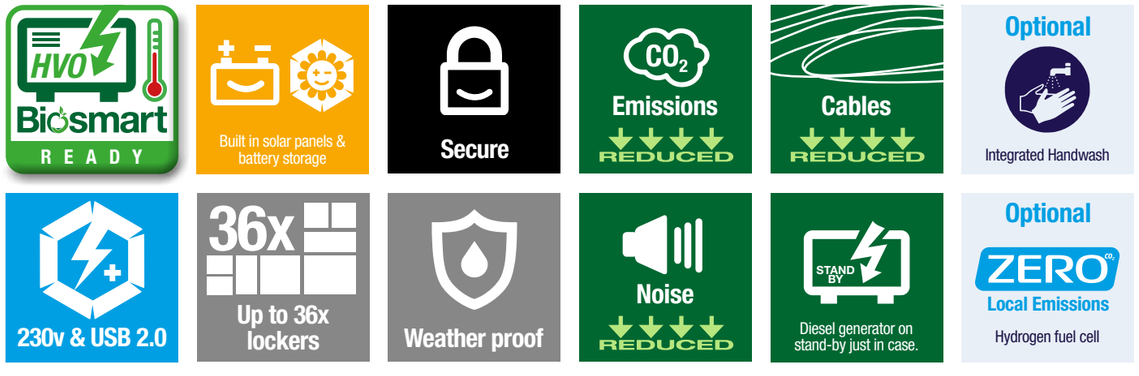



1. **High security steel door with ventilation and all-round deadlocks**
2. **Locker groups**
3. **Systems: Solar charger, battery bank, coms, inverters**
4. **Electrical trip switches**
5. **Generator battery**
6. **Generator & Fuel tank OR Hydrogen fuel cell**

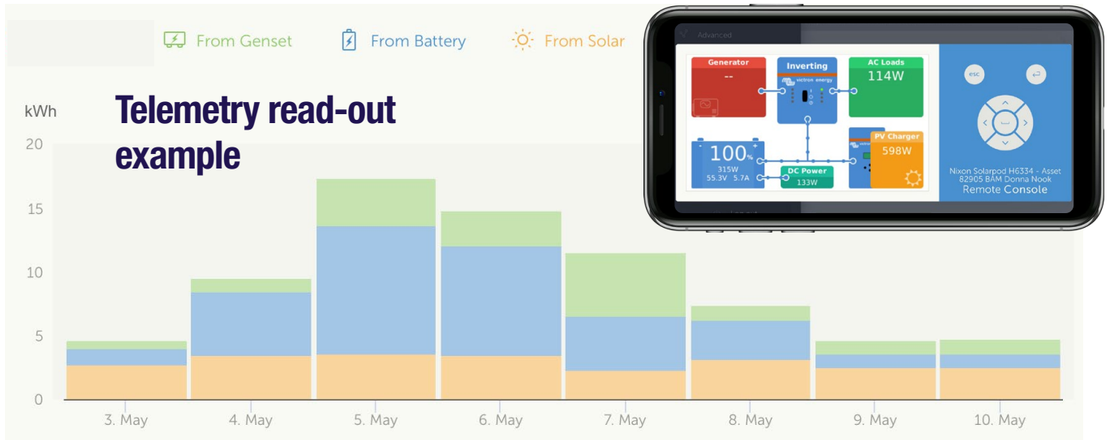
| | | |
|---|---|---|
| OUTPUT POWER | AC Output Voltage | 50Hz, 230V |
| | Output Connections | Up to 36 single sockets + USB 2.0<br>RCBO protected |
| INPUT POWER | Solar panels (on board) | 660 watts |
| | Generator backup power | 6.0 KVA / 4.8 KW |
| | Generator Fuel Type | Diesel EN 15940:2016 + HVO Compatible |
| | 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.<br>100% load: 2 Litres per hour<br>75% load: 1.75 Litres per hour<br>50% load: 1.00 Litres per hour<br>25% load: 0.50 Litres per hour |
| | Fuel tank capacity | 140 L |
| POWER STORAGE | Type | AGM (Absorbent Glass Matt) |
| | Capacity @ 25°C | 5kW |
| | Charge Time (hours approx) | 2 |
| ENVIRONMENT | Operating Temperature Range (°C) | -20°C to +55°C<br>Humidity (non-condensing): max 95% |
| | Solar panels - Max physical load | Wind: 4000 Pa, 408 kg/m² front & back<br>Snow: 6000 Pa, 611 kg/m² front |
| | Solar panels - Impact Resistance | 25 mm diameter hail at 23 m/s |
| MECHANICAL | Dimensions (mm) | W 1740 x L 2090 x H 2445mm |
| | Weight (kg) | TBC kg |
| | Lift Points | Forklift pockets & bottom lift |
| PHYSICAL STORAGE | Locker size | W 300mm x H 450mm x D 300mm<br>Larger locker sizes are available on order |

## How it works




| | | |
|---|---|---|
| CONTROL | System Controls (All models) | **Remote telemetry connection via local WiFi or 4G internet connection.**<br>**Controlled by App. (Android or Apple)**<br>• Low fuel level alarm & monitoring.<br>• Generator control; load management, optimised quiet hours and scheduled runs.<br>• Enhanced system management.<br>• Ability for users to program custom logic sequences.<br>• System commissioning/ decommissioning assistants.<br>• Troubleshooting assistants & diagnostics.<br>• User friendly graphical performance & event logs.<br>• Enhanced environmental control.<br>• Remote communication, monitoring & control. |
| | Soft start timer | 24/7 manually operated timer with soft start functionality to prevent overloading |
| | Generator telemetry (optional) | • Monitoring.<br>• Enhanced system management.<br>• Generator control.<br>• Troubleshooting assistants & diagnostics.<br>• Event logs.<br>• Remote communication, monitoring & control. |




# Optional Hand wash station

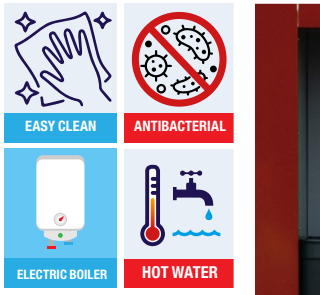
### Instant hot water

Designed to keep power usage to a minimum. Power to the electric instant hot water heater comes directly from the Charge Pod's hybrid power systems.

All surfaces are easy to clean & touch points are minimised. An infrared sensor tap ensures contact and transmission of germs through hands is minimised.

### Included

- Soap / Towel dispenser
- Water tank
- Infrared sensor tap for hands free water flow
- Stainless steel sink
- Disposal bin built in
- Efficient electric hot water boiler
- Power managed and supplied by on-board hybrid power systems. Solar / Batteries / Generator




**Biosmart HVO**

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.

**Award winning welfare** **Designed & built in the UK**

**AJC EasyCabin**

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FOOTNOTES

I. Annual solar input based on usage hours per day, 130 days in winter mode and 130 days in summer mode. Each day is a typical usage day. 60p per litre red diesel.

II. CO2 per Litre of fuel / DEFRA 2019 figures. Red Diesel = 2.758

III. 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 cabin will affect the solar charging of the batteries i.e. under trees, etc. Solar assessment is based at Luton, Bedfordshire, UK.

IV. 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.

Carbon emission statistics are from Department for Business, Energy & Industrial Strategy. Greenhouse gas reporting: conversion factors 2019. https://www.gov.uk/government/organisations/department-for-business-energy-and-industrial-strategy