

What Is Charge Pod ⚡

The EV **Charge Pod** system is a mobile electrical system which has been designed and developed by **Original Ltd** to provide a power boost to a flat electric vehicle to allow the vehicle to be driven to the nearest static charge point rather than being picked up and recovered on a flatbed truck.

Why Was Charge Pod Created ⚡

Electric vehicles are unlike the internal combustion engine as they cannot be simply topped up with *fuel* if they were to run out of charge. EV's also cannot be towed due to the potential risk of damage to the vehicles electrical system or risk of fire.

Instead, the only solution prior to the **Charge Pod** being created, was to pick a flat electric vehicle up with a recovery truck and take it to a static charge point. This model is not cost effective and ultimately may cause damage to the vehicle manufacturer company brand.

Another alternative was to carry heavy batteries around on patrol vehicles which take up valuable space and payload causing further problems for the fleet operator and when the batteries run out of charge it poses another problem.

Charge Pod was created to eliminate all these problems. Being light weight, small and compact it can fit onto a standard patrol vehicle and the same level of equipment and stock can be carried. Offering 100% duty cycle the **Charge Pod** system will never run out of charge ensuring the job can be completed.

What Does Charge Pod Deliver ⚡

The EV **Charge Pod** system delivers a power boost to any Electric Vehicle. Depending on the electric vehicle make, model and battery size will depend on how many miles the vehicle will move on a set charge time.

Today the power of the system is up to 5kW, but we are moving fast into offering higher levels of power.

How Does Charge Pod Work ⚡

Three main components make up the EV **Charge Pod** system. With our 25 years' experience and Engineering expertise the designing and manufacturing of first class, OE standard products lent perfectly to the creation of **Charge Pod**.

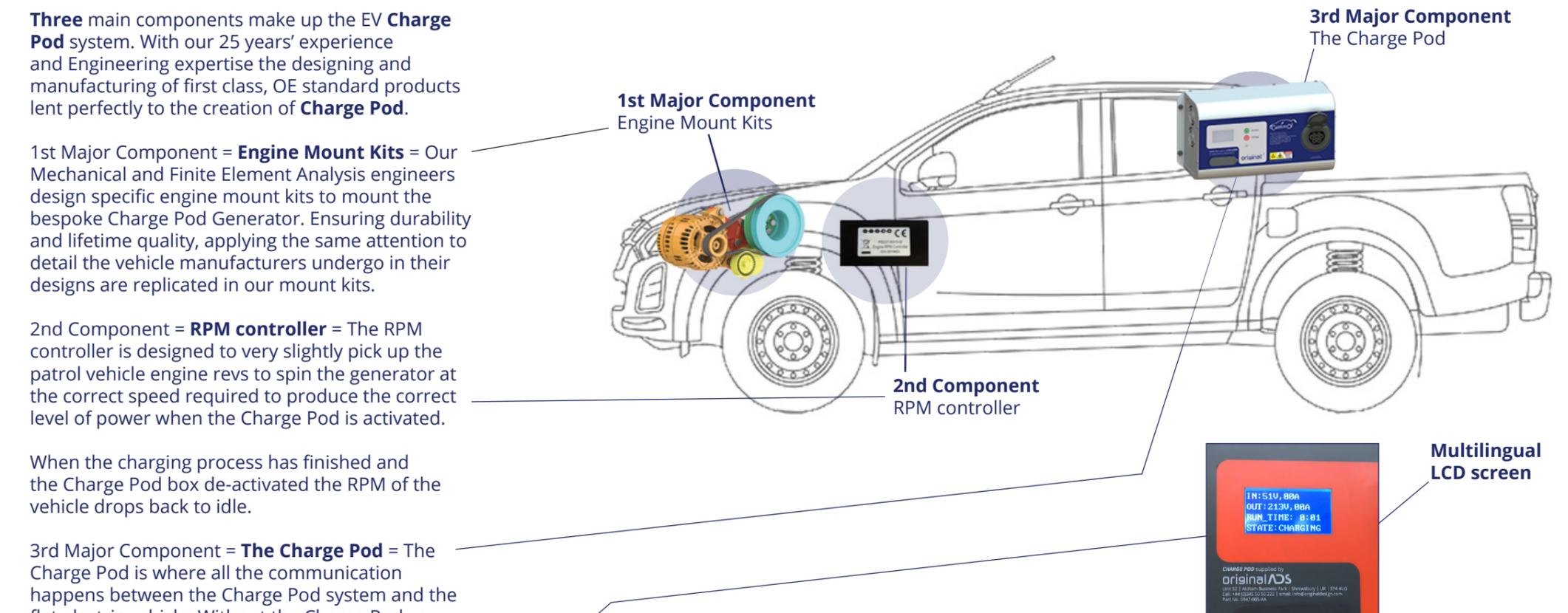
1st Major Component = **Engine Mount Kits** = Our Mechanical and Finite Element Analysis engineers design specific engine mount kits to mount the bespoke Charge Pod Generator. Ensuring durability and lifetime quality, applying the same attention to detail the vehicle manufacturers undergo in their designs are replicated in our mount kits.

2nd Component = **RPM controller** = The RPM controller is designed to very slightly pick up the patrol vehicle engine revs to spin the generator at the correct speed required to produce the correct level of power when the Charge Pod is activated.

When the charging process has finished and the Charge Pod box de-activated the RPM of the vehicle drops back to idle.

3rd Major Component = **The Charge Pod** = The Charge Pod is where all the communication happens between the Charge Pod system and the flat electric vehicle. Without the Charge Pod you can not simply give power to a flat electric vehicle as the communications between the Pod and EV are vital to enable the charging process.

With a **multilingual LCD screen**, the user can see the charging process such as charging times, how much power is being drawn and how much power has been delivered to the flat EV.



Development Plans - Next Steps ⚡

Our next steps for the **Charge Pod** development is to produce a higher power generator to considerably reduce the time the **Charge Pod** system must be used to deliver a charge to an EV or increase the number of miles delivered within the set time period.

Alongside this, we are creating a mains adapter plug which can be plugged into the **Charge Pod** box enabling the **Charge Pod** system to deliver mains power to run electric tools and equipment alongside delivering EV power boost.

In addition, a battery charging module will be available within the **Charge Pod**. The module will enable a Lithium Ion Battery wakeup call signal to be produced and have a controlled DC to DC battery charge for enhanced flooded, standard flooded and absorbent glass matt lead acid batteries.

Who Are We ⚡

Original Ltd are an **ISO9001 registered** entrepreneurial, innovative, multilingual engineering company based in the UK who design, develop, prototype, source, test and assemble products and ship to a global market. We ensure a cost-effective route for our customers always maintaining high quality and continual support.

Contact Us ⚡

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