



## MINI QED

A demonstration vehicle to showcase the best electric drive system in the world!



With the odd exception of some rather impractical and eccentric examples, today's electric or hybrid electric vehicles substantially under perform when compared both with high performance gasoline cars and also with theoretical limits of electric drive systems. Why are major manufacturers not putting more emphasis on in-wheel electric drive systems?

As PML is a leader in high performance motor and drive system technology, we felt it time to demonstrate what really can be achieved today using the best technology available! Produced in conjunction with our partner Synergy Innovations, the car you see today is one of 2 vehicles and is the result of 8 months of intense effort following PML's 4-year product development programme.

The MINI was chosen as the platform because of its broad appeal and iconic styling. However it is not a light vehicle and has limited space to integrate the substantial component set required for a top performance electric vehicle - if we can successfully convert this vehicle then most others should be easy by comparison!

The target specification was defined at the outset as follows:

|              |                       |
|--------------|-----------------------|
| Emissions    | Zero                  |
| Autonomy     | 1000km                |
| Top speed    | 200kph minimum        |
| Acceleration | 0-100kph in 6 seconds |
| Braking      | No mechanical brakes  |
| Fuel         | Zero carbon           |
| BHP          | 250bhp minimum        |

The specification as it stands today is:

|                  |   |
|------------------|---|
| Emissions        | Zero - for 4 hours combined urban and extra urban driving |
| Autonomy         | 1000km<br>(predicted from bench fuel consumption trials)  |
| Top speed        | Approaching 240kph  |
| Acceleration     | 0-100kph in under 5 seconds                               |
| Braking          | Regenerative only (other than handbrake for parking)      |
| Fuel             | Gasoline  |
| BHP              | > 640bhp  |
| Fuel consumption | 65 - 80mpg  |

The vehicle development will continue for some time, especially in the area of engine/fuel options and GPRS services and features.

Today, the vehicle incorporates the very best drive system technology available anywhere in the world.

**It is truly an outstanding example of British innovation at its best!**

BMW (UK) Ltd has requested that we mention they have no involvement with this project and that such conversions invalidate warranty!

### Some key features are:

- Independent Quad Electric Drive
- Traction control and anti-skid built into each wheel
- Regenerative braking recovers almost all energy
- Blistering acceleration and high top speed
- Efficient, range-extending onboard engine/generator
- No need to recharge (although you can "plug in" if you wish)
- Seriously attractive and feature rich in-car display

***Passion, Power and Planet in harmony!***

***QED***