



**MPE**  
Quality, Reliability, Performance

## Company Bulletin

for EMC, EMP & TEMPEST Protection

### Issue 13



The Ocelot LPPV in service in Afghanistan



The PSV wiper system for the Ocelot – with integral EMC suppression provided by MPE's custom filter

### EMC suppression for wiper solutions

From its headquarters at Navigation Road, Diglis, Worcester-based PSV Wipers Ltd (PSV) has been supplying high-quality windscreen wiper systems for specialist vehicle manufacturers since 1980 ([www.psvwipers.com](http://www.psvwipers.com)). Following previous company structures and ownerships, PSV was acquired by current Managing Director Paul Curry from the ESG Group in July 2015.

PSV designs and manufactures complete wiper systems, including wiper arms, wiper blades, wiper motors, drive systems and linkage parts. Working closely with vehicle OEMs, PSV offers both bespoke original equipment and aftermarket technical solutions for a range of applications such as military, civil engineering and construction, and agricultural vehicles as well as regular automotive applications.

One such application is the British "Ocelot" light protected patrol vehicle (LPPV), where PSV worked closely with MPE in the design and implementation of a wiper solution with integral EMC suppression.

Following a detailed design process, MPE provided a custom 7A, 28V DC, four-line filter to PSV, ensuring that the wiper motors were compliant with the stringent EMI/RFI suppression requirements of DEF STAN 59-411 Land Class A and also met the extreme conditions that the vehicle would face in theatres of operation.

Ocelot was given the name Foxhound in service and, with this custom DC filter having been supplied by MPE in production volumes since 2011, there are over 1,000 units currently in service on the Foxhound vehicle.

Alongside this custom DC filter, working closely with the vehicle designers Ricardo and Force Protection Europe, MPE also designed and supplied a custom 52A, three-line filter to ensure the same stringent EMI/RFI compliance for the compressor pump motor.

Paul Curry, PSV's Managing Director, commented: "It is really important for us to develop a close working relationship with our customers including OEMs, so that we can fully understand the technical challenges and develop the appropriate solutions. Close cooperation with MPE on the Ocelot project was critical, and MPE's agile response ensured a smooth design process and a timely and effective transition into production volumes."

You can download your personal copy of MPE's general datasheet on custom EMI and EMP filters from [here](#).

