



POSITIVE PROBLEM SOLVING



## WHEN THE BATH ZERO EMISSIONS MOTORCYCLE (BOEM) TEAM APPROACHED ETPS, THEY NEEDED A POWER SOLUTION TO HELP GET THEIR SEASON ON TRACK.

Many of the calendar's race circuits only have a single phase mains supply for battery chargers. However, commercially available sources with a single phase input are only usually available up to 3kW. This increases the time required to charge a battery pack. As a result, the number of times a team can test their bike before a race is reduced.

A special 5kW LAB-SMS with a single phase input was engineered by ETPS. The unit's 800Vdc nominal output meant that it could comfortably charge the bike's high voltage battery pack. To prevent transit damage between races, the DC Source was fitted into a flight case with shock and vibration mounts.

The team's manager, Louis Flanagan, added "ETPS provided us with the perfect solution. The power supply allowed us to maximise pre-race test time within race track restrictions".

"Configuring an electric bike was a new experience for many of the team members. So it was ideal to have a reliable mobile charging solution while we were making last minute tweaks to optimise the bike's performance".

BOEM is a team of engineering students from the University of Bath. They designed, built and raced an electric motorcycle in the 2016 Isle of Man TT Zero and Moto E series races.

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