

**Solectria.** Solectria was the most popular of the conventional DC brushless motors, being used by nine teams including ninth-placed (and first of the US single-seat entries) *Sunforce 1* from George Washington University. Most of these teams used the BRLS8 motor which, although rated at 6kW, can be optimised for maximum efficiency at the power levels of 750 to 1500 watts more typical of the race. The motor uses NdFeB magnets, and has an unusual winding configuration which allows for either series or parallel connection of the coils. This gives the driver the option of obtaining twice the torque, but with half the speed. A maximum efficiency of 95 per cent at 6000 rpm is claimed, including losses associated with the accompanying BRLS150 MOSFET controller.