

Autonomous Electric Power Steering

Dual MGU with Autonomous Control

DCE is the market leader in providing Electric Power Steering, with a range of solutions available. We can provide our Dual MGU (motor gearbox unit) with autonomous controllers for a variety of applications.

- Ideal for large, 12V DC vehicles with no existing PAS system.
- Motors can run independently to create a redundant steering system.
- Motors can run together for maximum torque assist.
- MGU is fitted anywhere in line between the steering wheel and rack input pinion.
- Input shaft allows manual control as well as autonomous control.
- System can provide up to 220Nm / 162 ft.lbs of steering column torque.
- CAN Bus control using one of the three following options:
 - Sending a simulated torque sensor signal.
 - Sending a +/- duty cycle demand for direct control of the EPAS motors.
 - Sending heading and gain request for the EPAS motors to steer to.



EPAS300DM

Parts required include:

- 1x EPAS300DM MGU
- 2x EPAS18A Autonomous ECU
- 1x EPAS19DM Wiring Harness
- 1x PNU0097D Dual Channel Steering Angle Sensor

Technical Specification and Contact Details overleaf

Dual MGU with Autonomous Control

Technical Specification

Operating Voltage	Nominal 13.8V DC
Maximum current draw (with both motors)	160 Amps
MGU Weight	8.35kg / 18.40lbs
Maximum Torque Output (with both motors)	220Nm / 162lb ft.
No Load Rotation Speed	780 degrees per second
Input / Output Spline Pattern	19mm Double D (3/4" DD)

Optional Accessories

EPAS14	Contactless Torque & Angle Sensor
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