

YASA 750R E-Motor

YASA motors and generators are the smallest and lightest in their performance class. Based on YASA's unique Yokeless and Segmented Armature topology, the motors use less materials more efficiently to provide higher torque and power densities than any comparable motor or generator.

The YASA 750 R is a lower-speed, high-torque motor with leading torque and power densities. The YASA 750 R offers 790Nm of peak torque, 200kW of peak power, and a speed range of 0-3250rpm all within an axial length of just 98mm.

The YASA 750 R is a high torque motor that has been developed from the proven YASA 750 and features a revised mechanical design for easier installation and integration, including additional mechanical strength and rigidity.

YASA 750 R Motor / Generator:

Peak Torque @ 450 A _{RMS}	790 Nm
Peak Power @ 700 V _{DC}	200 kW
Peak Power @ 400 V _{DC}	100 kW
Continuous Torque (40°C coolant)	400 Nm
Continuous Power @ 3000 rpm (40°C coolant)	Up to 70 kW
Speed	0 – 3250 rpm
Peak Efficiency	>95%
Mass	37 kg

- Best-in-class torque and power density. Peak power density >5 kW/kg
- Dimensions just 368mm (D) x 98mm (L)
- Through-shaft mounting, may be stacked for increased torque and power
- Integrated position and temperature sensors

Applications where the YASA 750 R excel include:

- Traction motors.
For on-road, off-road, rail and marine transport. Full electric, hybrid and range-extended vehicle designs where minimum volume and mass are key requirements.
- Generation.
Especially where size and weight are important in mobile and variable speed generation.
- Hydraulic replacement. Compact and efficient alternatives for hydraulic motors and starters.



AUTOMOTIVE



OFF ROAD



MARINE



INDUSTRIAL



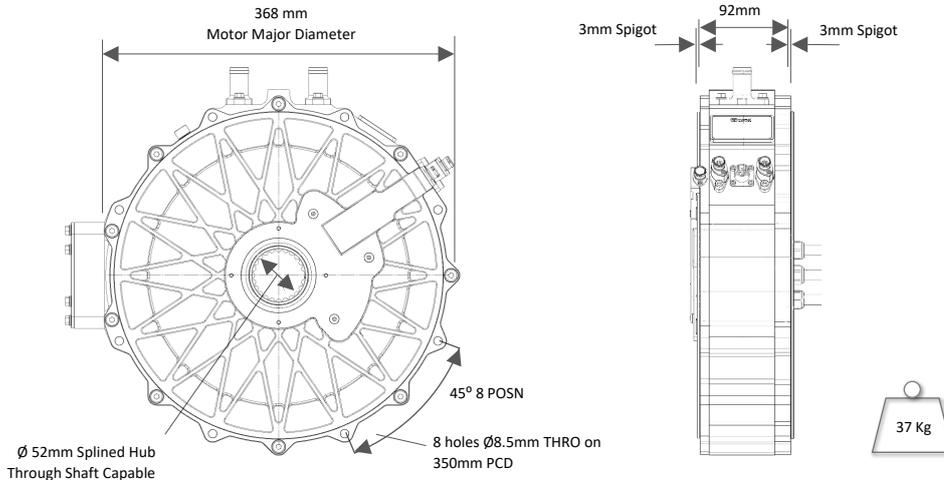
AEROSPACE



MOTORSPORT

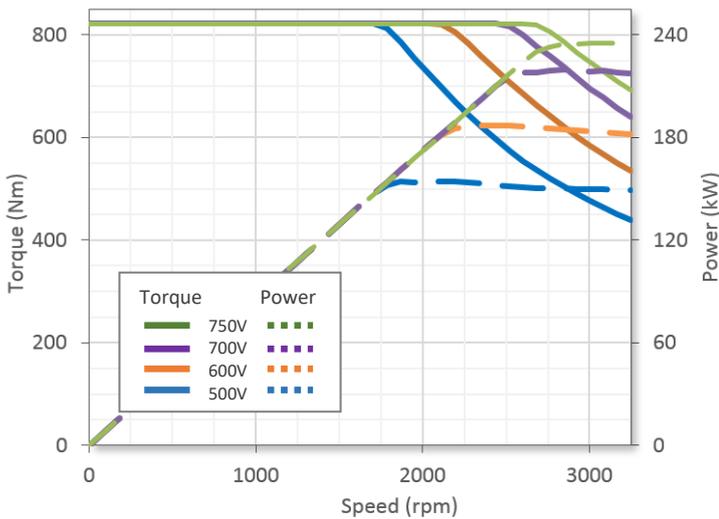
The YASA 750 R is available in a range of torque, power and mechanical configurations. Please call +44 (0) 1865 952100 or email sales@yasa.com to discuss your requirements.

Mechanical

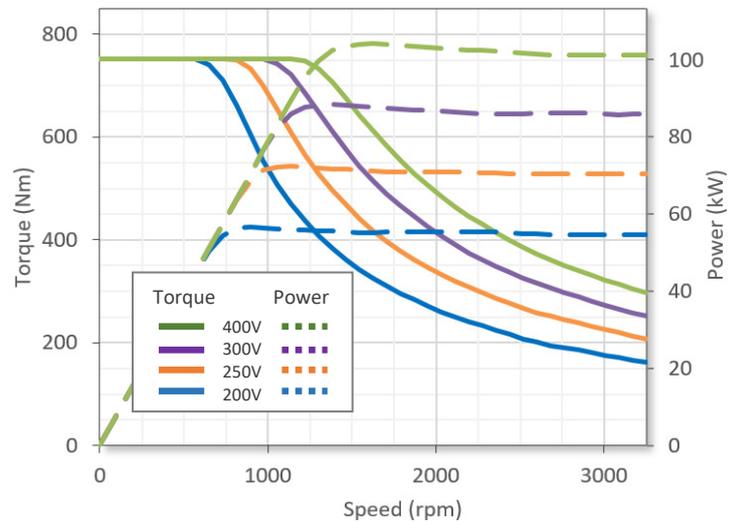


Example peak electrical performance

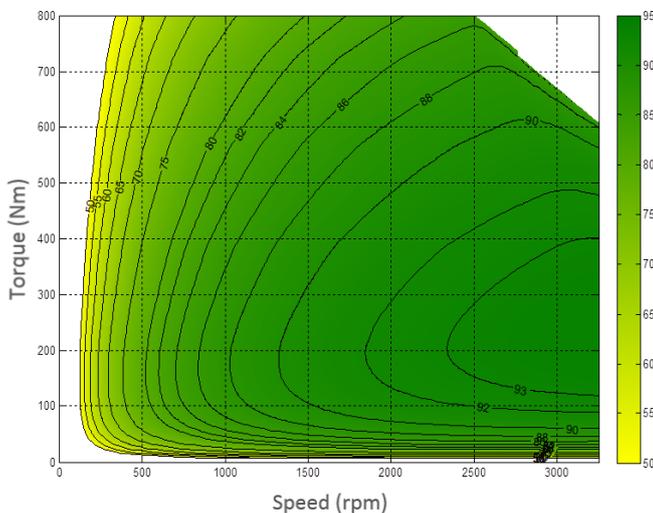
With 800 Vdc & 450 Arms Controller



With 400 Vdc & 400 Arms Controller



Combined Motor AND Controller Efficiency



Specifications are based on dynamometer test data with coolant at 60°C (inlet), 20 L/m and in a 30°C ambient unless stated otherwise.

Actual performance will vary with drive cycle, cooling and installation details.

Please **contact us** to discuss your application requirements. We can then supply detailed information on the YASA products and options that may be suitable for you.