

Electric Vehicle

Abstract

Because of the global warming and the environmental pollution, plans to reduce the dependence on the fossil fuel were evolved several years ago. Consequently, all the major players in the vehicle industry decided to convert their production from Internal Combustion Engines Vehicles (ICEV's) to Electric Vehicles (EV's). EV's are powered by electric powertrain that utilize completely different technology from that used before in ICEV's. In Egypt, **ASRT** decided to catch up this emerging technology by funding research projects to transfer this technology to the Egyptian industry field. In **EAE@AT**, we started a project funded by **ASRT** to convert old ICEV's to EV's as a first step of the localization of this technology in Egypt. We have already converted an old ICE family car to an EV with a powerful electric motor of about 122 HP with top speed of 180 km/hr.

Full Specification:

- ✓ **Dimensions:** 3 meters length x 1.8 meters x 1.5 meters height
- ✓ **Motor Power:** 122 hp
- ✓ **Motor Torque:** 220 Nm
- ✓ **Maximum speed:** 180 km/hour
- ✓ **Maximum Range:** 270 km at a speed of 60 km/hour
- ✓ **Total weight:** 1000 kg

مواصفات السيارة:

- ✓ الأبعاد: ٣ أمتار طول x ١,٨ متر عرض x ١,٥ متر ارتفاع
- ✓ قدرة المحرك: ١٢٢ حصان
- ✓ عزم الدوران للمحرك: ٢٢٠ نيوتن . متر
- ✓ الحد الأقصى للسرعة: ١٨٠ كم في ساعة
- ✓ أقصى مدى للشحنة الواحدة: ٢٧٠ كم بسرعة ٦٠ كم في الساعة
- ✓ الوزن الكلي: ١٠٠٠ كجم

