IJARSCT
ISSN (Online) 2581-9429
International Journal of Advanced Research in Science, Communication and Technology (IJARSCT)
Volume 2, Issue 1, November 2022
Impact Factor: 6.252

Wireless Charger for Electric Vehicles

Sairaj Gumul[1], Piyusha Jujgar[2], Arati Vijapure[3], Pooja Rao[4], Prof. P. S. Mehtre[5]
UG Students, Department of Electrical Engineering[1,2,3,4]
Professor, Department of Electrical Engineering[5]
Sinhgad Institute of Technology, Lonavala, Maharashtra, India

Abstract: *The technology for electric powered automobile wireless charging are reviewed using the method of inductive coupling. WPT is the switch of electrical electricity from the energy supply to a load without using physical connectors. WPT circuitry is located inside the car which gets activated while the vehicle reaches the charging location. The number one coil is supplied from the charging station. Flux is radiated out of the primary coil and receives triggered with secondary coil gift within the Electric vehicle (EV). The induced voltage from secondary coil is then regulated, rectified and used to rate the EV battery. In this mission a miniature version of electric automobile is charged in an powerful way without the use of cables and different plug-in technology. wireless energy transmission is done and control over electromagnetic induction and powerful charging of battery will be carried out.*

Keywords: Electric Vehicle (EV), Inductive Coupling, Wireless Power Transmission (WPT), Flux.

REFERENCES

[1]. Nicola Tesla, "The transmission of electrical electricity without wires", electrical international and Engineer, March 1905. http://www.tfcbooks.com/tesla/1904-03-05.htm, (acc. Dec. 08).
[2]. William C. Brown, "The history of wireless energy transmission," solar power, vol. fifty six, no.1, pp. three-21, January 1996.
[3]. Chen, Linhui, Shuo Liu, Yong Chun Zhou, and Tie Jun Cui, "An optimizable circuit shape for high-performance wireless strength transfer," IEEE Transactions on commercial Electronics, vol. 60, no. 1, pp.339-349, January 2013.
[4]. John M. Miller, "number one-side power float control of wireless energy transfer for electric powered car Charging", IEEE magazine of emerging and selected topics in electricity Electronics, Vol. three, No. 1, March 2015.