

Paper ID: 126-Novel Topology for Universal Electric Vehicle Charger

Dr. Ilan Aharon is the director of the Hybrid Energy Sources Laboratory. (HESL) R&D center (<https://www.ariel.ac.il/wp/hesl/>), the Department of Electrical and Electronic Engineering, Ariel University. The group is formed by Dr. Aharon, two postdocs, seven research students, five undergraduates, and Lab. Manager, Lucien El-Baz. Dr. Aharon spent 15 years in the cutting-edge power electronics RnD hi-tech industry and 15 years of academic research in the HESL center at Ariel University. The Lab specializes in energy management and power conversion of hybrid energy sources. The HESL is equipped with basic as well as state-of-the-art instruments (programmable electronic loads and power supplies, battery cyclers, controlled hydrogen and diesel fuel supplies, high-performance measurement devices, advanced data acquisition devices, several types of simulation software, temperature chamber, oscilloscope, general test, and measurement instruments, etc.). Apart from publication record papers (in peer-reviewed journals and professional conferences), the group has a proven record of accomplishing industry-initiated R&D projects, such as cooperation with the Israeli Ministry of Innovation, Energy, Science, and Defense, EPC Inc., and more Israeli companies.

