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Ministère de l'Enseignement Supérieur et de la Recherche Scientifique Université de  
Tunis El Manar  
Ecole Nationale d'Ingénieurs de Tunis Ecole  
Doctorale STI



# Thesis

submitted in partial fulfilment of the requirements of the

## Research Master's Degree

in **Power Electrical Systems**

by

**Fraj BEN ARAB**

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## Design and Layout of a 1kW-LLC converter with high efficiency and high power density

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Defended on the 24nd of May, 2023 before the jury:

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