



UNIVERSITAT POLITÈCNICA DE CATALUNYA
BARCELONATECH

Escola Superior d'Enginyeries Industrial,
Aeroespacial i Audiovisual de Terrassa

Design of a Quasi-Z-Source Inverter for PV application

Document:

Pressupost

Autor/Autora:

Genís Domínguez Amador

Director/Directora

Santiago Bogarra Rodríguez

Titulació:

Màster en Enginyeria Industrial

Convocatòria:

Primavera 2021

TREBALL DE FI DE MÀSTER

Table of contents

Budget	2
--------------	---

List of figures

Table 1. Costs of the study.	2
-----------------------------------	---

Budget

This document compiles the details concerning the budget of the study.

For the realization of this study, 480 hours have been employed by the engineering personnel, which has a rate of 35 euros each (junior rate). This includes the research on the theoretical concepts as well as the available solutions, the realization of the Simulink model and the preparation of the report.

Given that no prototype has been build, only office equipment depreciation as well as informatic licenses are included.

The software used are Matlab, Microsoft Word, both provided under agreements for educational purposes. Hence, their cost is 0 euros.

Due to the high energetic demand of computer simulation software, energy expenses are included in the budget. It is to be noted that simulations take long time to be completed, which computes for the energy expenses but not for the time employed for the realization of the study. Thus, the energy expenses are calculated considering the power of the used computer (700 W) and the simulation time (200 hours).

Description	Rate	Units	Measurement	Units	Cost (€)
Conduction of the study	35	€/h	480	h	16800
Software Licenses	0	€/h	680	h	0
Office supplies	0,03	€/h	680	h	20,40
Energy expenses	0,23	€/kWh	0,7kW x 200h = 8	kWh	32,20
Total costs (No taxes)					16852,60
IVA (21%)					3539,05
TOTAL					20391,65

Table 1. Costs of the study.