

SELEC CONTROLS

TRANSFORMER DESIGN

-HW Assignment 4-

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1 Problem Statement

1.1 Explain

1. Primary Winding
2. Secondary Winding
3. Turn ratio of Transformer
4. Difference in CT & PT
5. Type of Losses in transformer

1.2 Design

1.2.1 Transformer & Regulator IC

Figure 1: This is example image

Select Transformer and regulator IC for circuit figure 1 Linear Power supply.

Input: 240 VAC , 50 Hz +/- 10 %

Output: 5VDC , +/- 2

Isolation: (a) I/P to O/P : 1KV

(b) Mains supply to Body /Chassis :2.5KV

1.2.2 Specification Sheet

For figure 1 Prepare Technical Specification sheet for Transformer considering following parameters¹

1. Voltage , Current & VA rating of Primary & Secondary Winding.
2. Efficiency
3. Isolation
4. Turns ratio
5. Transformer pin diagram

¹An example footnote.

2 Solution

2.1 Explain

The content goes here[1].

2.2 Design

The solution goes here.

References

[1] this is fun

[2] this is also fun