

Analog Power Supply Unit

Project outline

Group 6

Rectifying and regulating an alternative voltage to a predefined DC voltage to drive a specific load and for a circuit as input voltage. We plan to handle a maximum current of 10A. We also provide a datasheet in accordance with power supply. For the external safety of the power supply we use a cooling system and an enclosure.

Specification of Analog Power Supply Unit:

- Maximum Current – 10A
- Input voltage – 12V-25V
- Output voltage – 10V
- Maximum power – 100W

Group members:

170150A – D.M.A.I.Divisekara

170168K – W.S.D.Fernando

170170J – G.Gajanan

170173V – P.K.G.Gamage

Weekly plan:

PROJECT TIMELINE								
	March				April			
	week1	week2	week3	week4	week5	week6	week7	week8
concept research and circuit simulation								
Preliminary Circuit design								
Circuit design finalizing								
PCB design and Printing								
Soldering and assembly of components								
Testing and debugging								
Circuit finalizing and Documenting								
Enclosure design and Finishing								
Datasheet preparation								

Basic circuit:

