NEUTRAL POINT CLAMPED OF STRING INVERTER

A report submitted to fulfillment of requirement for the award of

Bachelor of Engineering (Hons.) Electrical

FACULTY OF ELECTRICAL ENGINEERING

UNIVERSITI TEKNOLOGI MARA

MALAYSIA

ACKNOWLEDGEMENT

First of all, I would like to express the fullest gratitude to Almighty God for giving me an opportunity, guidance, patience and effort that required to accomplishing my project. Without inspiration, this report could not be done

Special thanks to my supervisor, Prof. Madya Dr. Ahmad Maliki Bin Omar for his precious concern, guidance, assistance and advice from the beginning until the completing of this project

Not to be forgotten to all of my teammate and friends, especially De-Apli' Anto Paran Laing and Mohd Azwan bin Khatib for giving magnificence idea, suggestion and help during the completion process. Without them, I could not complete this thesis.

Thank you everyone that involve and God bless us all.

ABSTRACT

This thesis presents the neutral point clamped type of inverter, converting from DC to AC, using pulse-width modulation (PWM) injection from PIC, sending the signal to optocoupler, followed by IGBT to trigger the function of open and close the gate. This project is designed for converting DC to AC voltage. Circuit designed and simulated on using PSIM simulation software. From this simulation, it could determine the output waveform for the voltage and current produced by the circuit. This circuit is then design in hardware to perform the real output produce by the real element of electronic component which then all the results recorded for analysis and comparison. Finally, the conclusion has been made regarding the results and objectives.

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