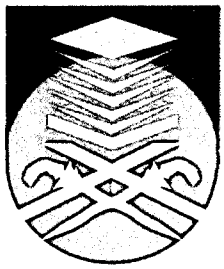

WIND CHARGE CONTROLLER FOR GOLF CAR USING PERIPHERAL INTERFACE CONTROLLER (PIC)

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ABSTRACT

This paper presents wind charge controller for golf car using Peripheral Interface Controller (PIC). The purpose of this work is to describe the implementation of a controller for tracking the point of maximum power transfer based on neural networks, using a microcontroller of the PIC family, on energy system that used wind turbines. The general principal behind the controller is to monitor the voltage of the batteries in this system that either sends power from the turbine into the batteries to recharge them, or dumps the power from the turbine into a secondary load if the batteries fully charged. PIC controller system used to prevent over-charging and destroying the batteries. The program was built by using MPLAB software and PICkit 2 programmer. The wind charge controller will begins charging at 6 Volt and it will be fully charged at 9 Volt.

Keywords: Peripheral Interface Controller (PIC), charge controller, wind turbine, over-charging, MPLAB software, PICkit 2

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CHAPTER I

INTRODUCTION

1.1 BACKGROUND OF STUDY

Golf cars are now utilized in shopping malls, farms, resorts and retirement community. They are also extremely well-liked with players who live in a retirement community that has a golf course. They are becoming increasingly well-liked with people searching for a comfy method to appreciate each day on the course. They are deemed as enjoyable vehicles employed in games such as golf, or function. Golf cars are now extremely typical all over the world. They are utilized as multi-purpose vehicles.

They are little vehicles which originally produced to carry two golfers and their golf clubs. Golf cars are regarded as by numerous golfers to be an important component of the golf game.

Golf cars are almost important for some of the larger golf courses. They are typical sights on numerous car paths and fairways of golf courses. They are much more than just a practical and convenient kind of transportation. They are extra than only a helpful and handy kind of transportation. Golf cars are meant to sail along the golf course taking passengers from 1 shot to the next.