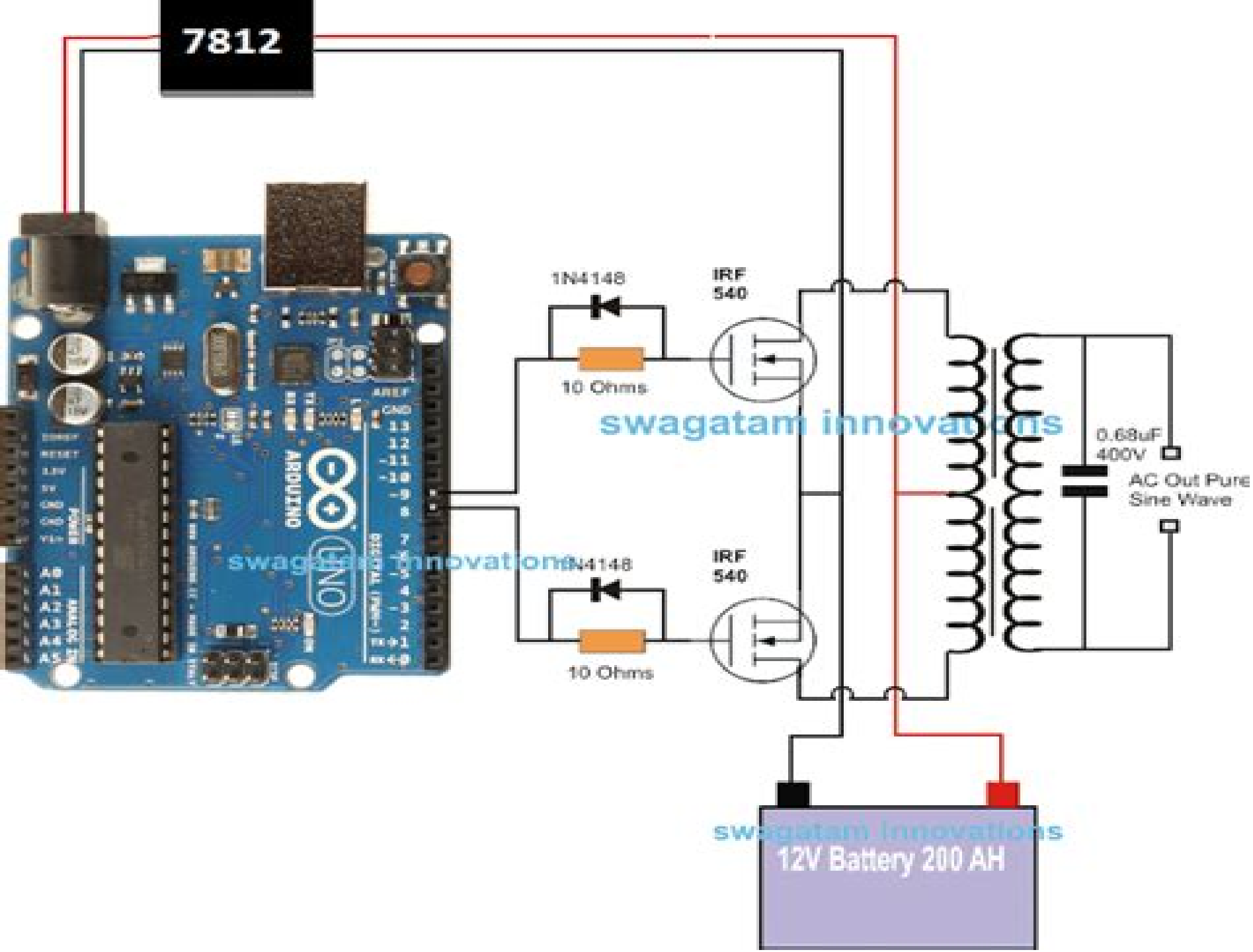




Pure Sine Wave Inverter Circuit Using Microcontroller Ic

A Gutmann



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motor at variable speeds that are directly proportional to this frequency Besides the MOSFETs as the inverter driver for the MOSFET also very important in this circuit development because it is use to interface between control circuits low voltage part and inverter high voltage part Another important part in this inverter design is PICmicro microcontroller chip that is used to provide the switching schemes to the MOSFETs This microchip acts as a controller circuit that produces the carrier signal and modulating signal for the inverter The objective of this project is to build an ac motor speeds controller for holiday usage appliances to simulate and analyze the single phase SPWM operation of the inverter switching characteristics The Programmable Interface Computer PIC used is PIC 18F4550 and the MOSFET driver used is IR2110 At the end of this project the SPWM output is developed from the controller circuit and applied to the driver circuit and the inverter and hence can be used to control the speed of the AC motor

Principles of Inverter Circuits Burnice Doyle Bedford, Richard Gibson Hoft, 1964
Pure Sine Wave Inverter ,2012 *Inverter-Based Circuit Design Techniques for Low Supply Voltages* Rakesh Kumar Palani, Ramesh Harjani, 2018-06-29 This book describes intuitive analog design approaches using digital inverters providing filter architectures and circuit techniques enabling high performance analog circuit design The authors provide process supply voltage and temperature PVT variation tolerant design techniques for inverter based circuits They also discuss various analog design techniques for lower technology nodes and lower power supply which can be used for designing high performance systems on chip

Implementation of Unipolar PWM Technique on a Single-phase Inverter Using PIC Microcontroller Khairil Anwar Mohd. Soror, 2007 *Implementation of Single Phase Full Bridge Unipolar Pwm Inverter Using Microcontroller PIC18F4331* Sezu Pathy Muthu Karippen, 2011
A 1000W Sine Wave Inverter Using Power Mosfets and PWM Techniques Scott J. Standring, 1989
Development of Hardware and Microprocessor Control Sine Wave Inverter Chieng Kai Wong, 1984

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