

# SOLAR PHOTOVOLTAIC GARDEN LIGHT

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## **ABSTRACT**

Solar PV garden light is the new technology providing a reliable, inexpensive, affordable and environmentally friendly source for modern garden light systems. These lights will also help to reduce electric energy usage. With no wiring or electrical work required, solar PV garden light are perfect for home safety and garden landscape. Solar PV garden light are fitted with the latest technology in electronics and power system. They are based on photovoltaic or PV for short. A solar module that is located on the top of the pole converts sunlight into electrical power. A solar charger regulates the voltage coming out of the solar module. The regulated power obtained is used to charge a battery. At the same time, the battery can be charged for using at night. Lighting is produced by arrays of extra bright LEDs that are much brighter than bulbs. LED last for years and is very energy efficient. LEDs are small, but it can produce a significant amount of light. Solar PV garden light is becoming more and more widespread around the world because they are portable, easily deployable, energy efficient, good for the environment and requires minimum maintenance. One of the biggest problems in developing countries is power outage. An obvious advantage of solar PV garden light is that they will continue light on the garden even during power cuts off. Solar PV garden light offer an interesting and practical solution with good demand.

## TABLE OF CONTENTS

CHAPTER	TITLE	PAGE
	<b>CANDIDATE DECLARATION</b>	2
	<b>ACKNOWLEDGEMENT</b>	3
	<b>ABSTRACT</b>	4
	<b>TABLE OF CONTENTS</b>	5-8
	<b>LIST OF FIGURE</b>	9-11
	<b>LIST OF TABLES</b>	12
	<b>LIST OF ABBREVIATIONS</b>	13-14
	<b>LIST OF EQUATIONS</b>	15
<b>1</b>	<b>INTRODUCTION</b>	
	1.1 Background of Study	16-18
	1.2 Problem Statement	19
	1.3 Objectives	19
	1.4 Scope of Work	20
	1.5 Project Contribution	21
<b>2</b>	<b>LITERATURE REVIEW</b>	
	2.1 Solar PV Module	22
	2.2 Solar PV Energy	23
	2.3 Rechargeable Battery	24-25
	2.4 Solar Lighting system	26

<b>3</b>	<b>METHODOLOGY</b>	
	3.1 Block Diagram	27-28
	3.2 Flowchart	29
	3.3 Software	
	3.3.1 Matlab	30-31
	3.3.2 Proteus	32-33
	3.3.3 MikroC	34
	3.4 Component and Equipment	
	3.4.1 Solar PV module	35
	3.4.1.1 Monocrystalline module	35
	3.4.1.2 Polycrystalline module	36
	3.4.1.3 Hybrid module	37
	3.4.1.4 Thin film	37-39
	3.4.2 PIC Microcontroller	40
	3.4.3 Rechargeable battery	41-42
	3.4.4 Voltage Regulator	43
	3.4.5 Crystal	44
	3.4.6 Capacitor	45
	3.4.7 Resistor	46-47
	3.4.8 Diode	48
	3.4.9 LED	49-51
	3.4.10 Switch	51-52
	3.4.11 LDR	53-54
	3.4.12 Multimeter	55
	3.4.13 Soldering Iron	56
	3.4.14 Wire cutter	57