



**LED GROW CORP**

**PGL950-360 Series**

---

---

# **PGL950-360 Series User Manual**



**Thank you for using our product,  
please read manual carefully before  
operating it.**

Customers First

Integrity and Win-Win

Innovation and Excellence

Tel:(386)898-3383

E-Mail:info@myledgrow.com

Website: www.myledgrow.com

# Contents

1. PRODUCT ILLUSTRATION.....3

2. INTRODUCTION.....4

3. PROPER USE & CARE.....4~5

4. APPLICATION.....5

5. TECHNIQUE FEATURES.....5

6. PRODUCT SPECIFICATION.....6~7

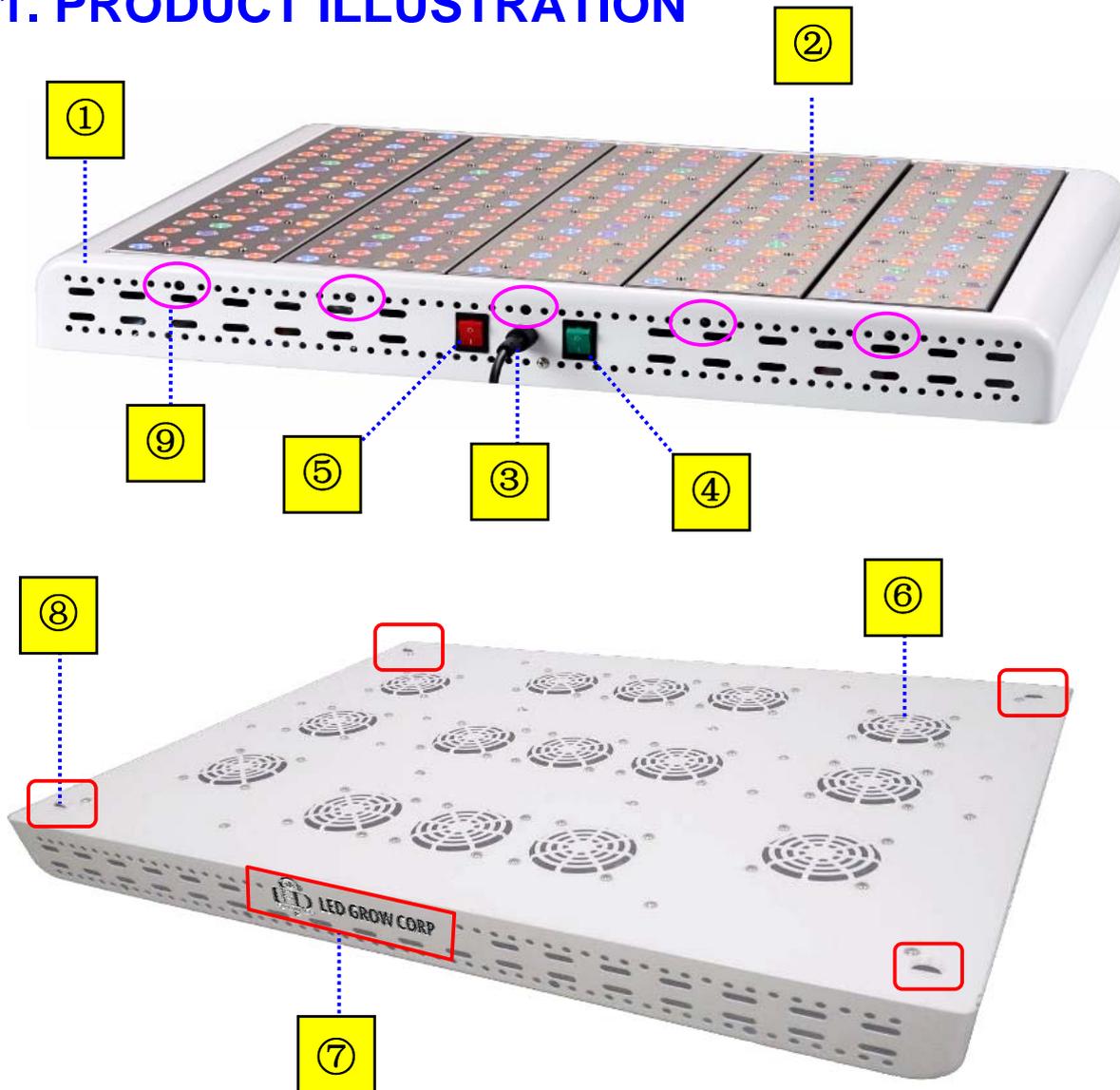
7. ASSEMBLING AND HANDLING.....7~9

8.TROUBLE SHOOTING.....9~10

9. WARRANTY TERM.....10~11

10. LIST OF PARTS.....11

## 1. PRODUCT ILLUSTRATION



- |                             |                                    |                              |
|-----------------------------|------------------------------------|------------------------------|
| 1.Box shell                 | 2. Light plate light source module | 3. AC Main power interface   |
| 4. Green full-bright switch | 5. Red reinforce switch            | 6. Cooling fan network       |
| 7. Nameplate logo           | 8. Hook holes (four)               | 9. Lamp plater screws (five) |

# PGL950-360 Series

---

---

## 2. INTRODUCTION

PGL950-360 series product is a high-tech product; please do not disassemble the cooling system and the light source system without the authorization from our company to avoid personal injury and lamp damage. Our company will not bear any responsibility for any unauthorized operation of modification, if any questions arise, please contact company of authorized agents.

- For better understanding of the performance and operation of the product, please read the details of each page of this manual after unpacking. Please contact our technical staff if you have any questions.
- Please keep this manual in a safe place for easy access.
- The end user must familiarize with this manual.
- The final interpretation of this manual is up to the Company

## 3. PROPER USE & CARE

- 1) After open the box, check all the parts and accessories, carefully read the contents of the product manual;
- 2) This product is not waterproof, so do not get wet or place in the water, if accidentally sprinkle the water on the product, please shut down the power immediately, otherwise it will cause leakage that may lead lamp damage or personal injury;
- 3) To ensure that products in normal use, the working environment for the lamp is  $-20 \sim 40^{\circ}\text{C}$ ,  $45\% \sim 95\% \text{RH}$ ;
- 4) Avoid installation in an environment where the heat source, hot steam, corrosive gases and dusty air are present, which would shorten lamp lifespan;
- 5) This product must be properly grounded with the external cable to prevent accidental injury;
- 6) Before connecting the AC main plug, please disconnect the external power supply, to avoid working under electric charge which can injury worker, please pay special attention to identify the direction of the AC power plug;
- 7) Make sure that the mounting position of the suspension point can withstand 10 times the weight of the product;
- 8) Do not block any heat dissipated mesh holes in this product which should be kept ventilated for efficient heat dissipation;

## PGL950-360 Series

- 9) It is recommended to cut off all the power supply when thundering in rainy day;
- 10) Please make sure follow the instructions in the manual to operate the product; any violations may cause personal injury and product damage which the company does not assume any legal and economic responsibility.



**[WARNING]** Please check whether the external AC power connection (three-prong plug) is properly grounded before powering on. Otherwise the manufacturer is not responsible for the occurrence of electric shock incident!

## 4. THE SCOPE OF APPLICATION

This product is mainly used for ecological agriculture such as: plant factory, indoor gardens, farms, greenhouse cultivation, flower cultivation and other fields, suitable for all stages of plant growth. This lamp with minimum heating, long lifespan and good stability, is of high quality with affordable price. It is worthy of your trust and purchase.

## 5. THE TECHNICAL PARAMETERS

Project	value	Project	value
Light source	LED	Actual power	I files: 650W / II files: 950W
Model number	PGL950-360	LED quantity	360pcs
Input voltage	AC100~240V	LED Power	3W/Pcs
Rated Current	4.0~8.0A	Luminous Flux	18500~19300 lm
Frequency	50~60Hz	Wavelength Ratio	360~850nm(Full Spectrum, customizable)
Working environment	-20~40℃, 45%~95%RH	LED Life	30,000~50,000H
Product size	760*590*80mm	Product weight	20kg/set
Carton Size	850*680*170mm	Gross weight	22kg/set

Customers First

Integrity and Win-Win

Innovation and Excellence

Tel:(386)898-3383

E-Mail:info@mjledgrow.com

Website: www.mjledgrow.com

## **PGL950-360 Series**

---

---

### **6. PRODUCT SPECIFICATION**

- 1) This lamp can be adapted to a wide-range voltage supply (AC85-264V with frequency 50-60Hz, PF>0.965). Thus it can be easily used in any country and region. Simply plug in and use without requirement of any additional equipment configuration.
- 2) The lamp operates a dual switch (red/green) control. In the early stage of growing root, shoot & leaf of the plants, you could apply green-switch mode. Then in the late flowering stage, the red + green switch can be open together, to permit plants absorbing the strongest spectrum of lights. This way will increase the yield.
- 3) A high-quality / high-brightness plant growth LED chip is embedded with the lamp, with a life expectancy up to 30000 ~ 50000H, which will reduce maintenance labor and costs, and thus improve your competitiveness.
- 4) Out design follows the modular concept with the male and female plug interface directly connected, which permits to easy disassembly, replacement and maintenance. The surface light source module with a unique blinds design, flexible swing to a tilt angle, allows more uniform lights in an increased irradiating area, which will help to increase the yield from 20 to 25%. Planting area can be 4ft \* 4ft or 4ft \* 6ft; the optimum height: 70~75cm (the vertical distance from the bottom of the light to the top of the plant).
- 5) We use the linear constant current technology to isolate the power source, thus prevent light source damages that result from sudden high voltage surges.
- 6) Our product uses a high pressure sodium lamp (HPS), which has a 2~3 times the power output. Thus this lamp can save 40 to 60% of the energy than the traditional high pressure sodium lamp (HPS) and metal halide lamp (MH).
- 7) We use thicker aluminum heat sink through the built-in cooling fan system, which effectively reduces the heat problem while ensure service life of the product under normal conditions.
- 8) We have a novel design for the cooling vents which increase the unit time of exhaustion and cooling, and thus greatly improve the heat dissipation performance. Our working temperature is about 10-15 °C lower than the traditional ones.
- 9) New fan mesh structure design, fan noise reduce by 50% or more;
- 10) The use of professional optical grade condenser lens can make LED light more gathered, more illuminated, can effectively improve the fruit yield;

---

Customers First

Integrity and Win-Win

Innovation and Excellence

---

Tel:(386)898-3383

E-Mail:info@mjledgrow.com

Website: www.mjledgrow.com

# PGL950-360 Series

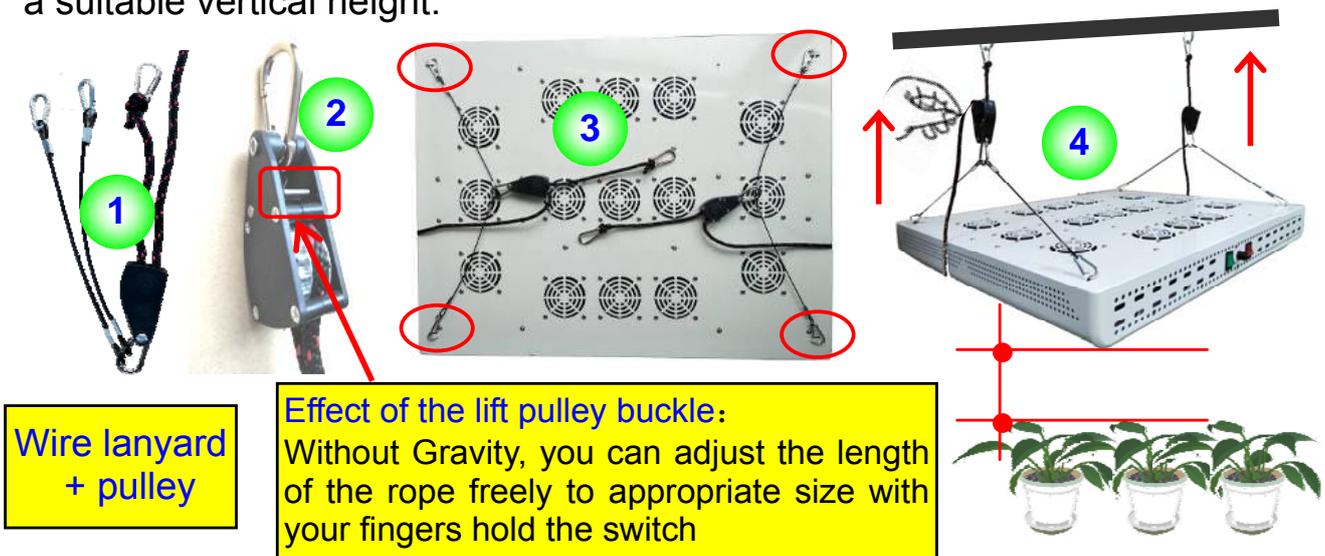
- 11) All the materials are RoHS-compliant and do not contain harmful heavy metals such as mercury and lead;
- 12) The lamp provides a full-spectrum color of lights. And we are also willing to provide customized wavelength and color ratio for a particular customer.

## 7. ASSEMBLING AND HANDLING

**【Step 1】** Refer to the chart below to unpack the outer box and find all the accessories in the figure below;

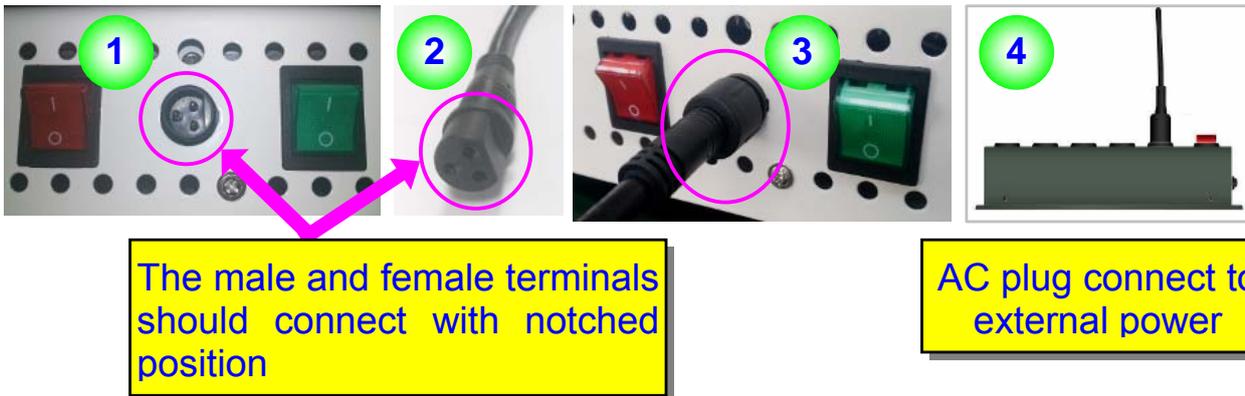


**【Step 2】** Find the attached wire lanyard and lift pulley (Figure 1), press and hold the safe switch of the elevator with fingers (Figure 2). Adjust the length of lanyard properly, turn the lamp upside down, then hook to the four holes on the corner (Figure 3). Then set the two sets of lifting pulley end buckle into the pre-installed top hook (Figure 4), by pulling the rope to adjust the lamp to a suitable vertical height.

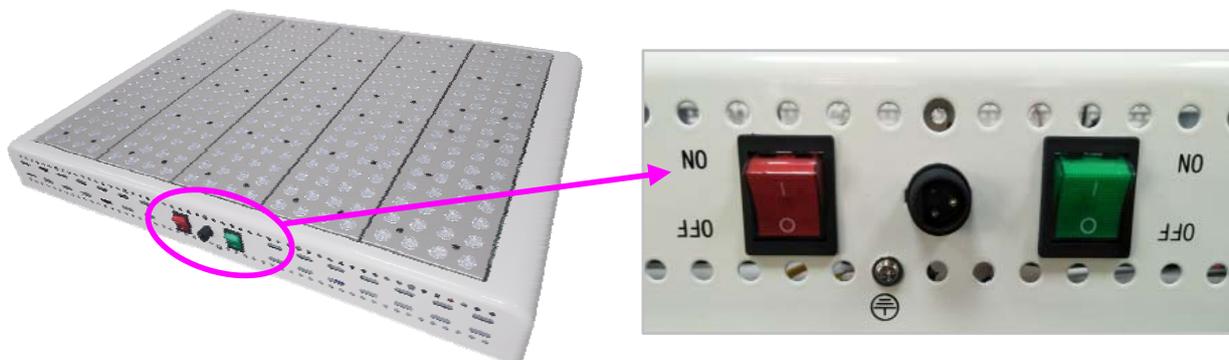


## PGL950-360 Series

**【Step 3】** Before connecting to the power source, please cut off all external power supply, to prevent the occurrence of dangerous electric shock. First connect AC power cord and finished lamp main power supply (as shown in ① + ② of the figure below). Here you need to pay special attention to identify the direction of AC power plug, (As shown in the figure below), insert and then tighten the nut to prevent loosening (as shown in ③), and finally connect the AC power cord triangle plug and external power supply (as in ④);

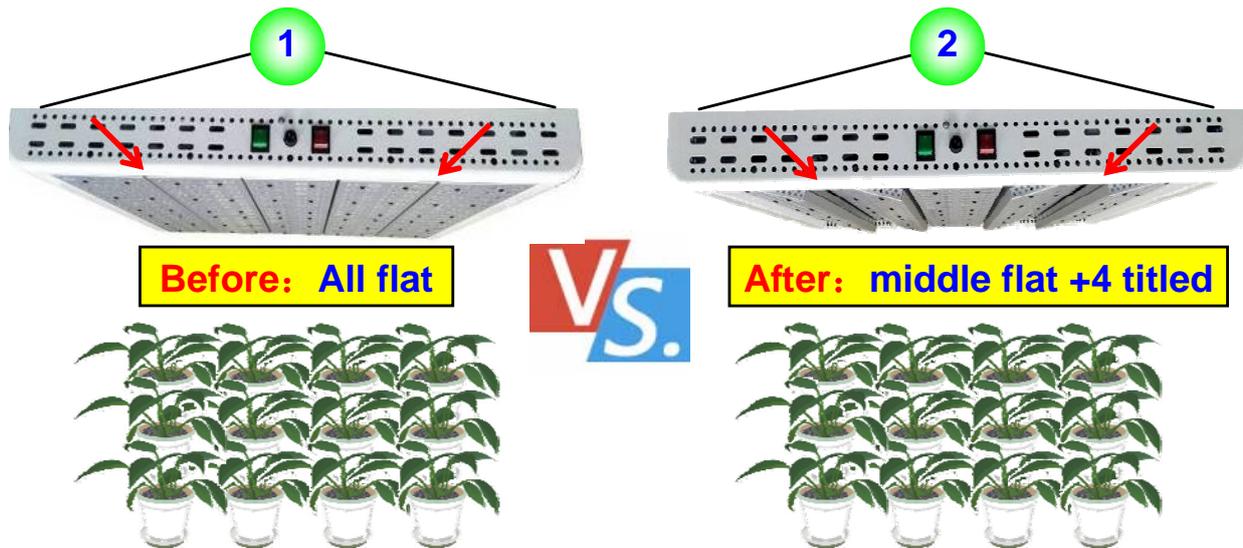


**【Step 4】** Turn on the power after connected to the external power source. Since the product with double switch (red/green) control function: 0=OFF, 1=ON. It is recommended to turn on the green mode to promote growth at the root/leaf growth stage, and then switch to turn on both red- and green-mode at the later stage to promote flowering. The plant can absorb the strongest spectrum in fully open mode (mean with both red- and green-mode on), which improves the yield.



## PGL950-360 Series

**【Step 5】** After the lamp is energized normally, manually swing 4 light plates to corresponding tilt angles (as shown in the figure below). The middle light board should always maintain flat. This will ensure more uniform illumination during operation, and also increase the illuminated area, thus increase the flowering and harvest rate.



## 8. TROUBLE SHOOTING

<u>Problems</u>	<u>Cause analysis</u>	<u>Solution</u>
Light board is not on when the switch is turned on.	1. The socket has no power supply. 2. Poor contact between the plug and the socket. 3. Fuse break.	* Check the external wiring or replace the socket. * Check the plug or replace the socket. * Replace the fuse.
Noise in the box of swing light board	1. The cable touched fan blades. 2. Screws or other objects falling into the fan	* Open lamp board move the Cable. * Find and remove the objects inside the box.

## PGL950-360 Series

No light on the swing light board	1. Loose connection on button of the lamp 2. Internal of lamp reackdown 3. Internal power damage	*Unplug and open the lamp to re-connect the terminal. *Replace lamp board module. *Replace to a new drive power
Fan can't be turned on or with slow speed	1. The cable terminal of fan is loose 2. Internal damage of fan 3. Internal damage of drive power	*Unplug lamp to connect the terminal *Replace the fan *Replace the drive power

## 9. WARRANTY TERMS

※**Warranty:** This product has been tested for strict quality inspection. In order to ensure your legitimate rights and interests, please fill out the product warranty card. Our company promise you two years free warranty service under normal conditions of usage.

※**Warranty range:** During the warranty period, if the product fails under normal usage, the user can obtain the free warranty service provided by the company with the product warranty card, valid invoice and the faulty product. The company is responsible for free maintenance or replacement of similar products which should be tested to achieve the stated quality requirements.

※**However, the following conditions are not in the range of free warranty, certain amount fees will be charged for repairing the products:**

- (1) No warranty card and valid invoice certificate for this product;
- (2) Product warranty card is not filled out, or completed untruthfully, or unauthorized modification of the warranty card;
- (3) Damage caused by irresistible factors (natural disasters such as fire, flood, earthquake, lightning, etc.);
- (4) Damage due to improper handling, operation, maintenance, and improper storage; damage due to usage in inappropriate environment (such as power voltage, temperature / humidity, pollution, etc. do not conform with the product instructions)

Customers First

Integrity and Win-Win

Innovation and Excellence

Tel:(386)898-3383

E-Mail:info@mjledgrow.com

Website: www.mjledgrow.com

# PGL950-360 Series



- (5) Damages due to the unauthorized repair and modification, due to accidental crashes, or dropping into water;
- (6) Malfunctions due to not following product specifications and instructions;
- (7) Exceeds the warranty period and requires replacement parts;
- (8) Maintenance of product is limited to scope of the warranty card, do not assume any other responsibility.

## Product Warranty Card

Model:	Type:	Serial Number:
User Information	Name: _____ Phone: _____	
	Address: _____	
Date of purchase:	Year      Month      Day	Dealer's Signature (Seal):
Dealer:		
Name of the Store:		
Address:		
Phone:		

## 10. LIST OF PARTS

Item	Item Name	Unit	Amount	备注
1	User's Guide	Copy	1	File
2	Product promotion color page	Copy	1	File
3	Certificate	Copy	1	File
4	AC power cable	Line	1	Accessories
5	Lifting pulley wire hook	Set	2	Accessories

Customers First

Integrity and Win-Win

Innovation and Excellence

Tel:(386)898-3383

E-Mail:info@mjledgrow.com

Website: www.mjledgrow.com