



# LED Hydro Grow Light

## Instruction Manual



**MODEL:**  
**300TTL-G**  
**300TTL-GB**  
**600TTL-G**  
**600TTL-GB**

# **IMPORTANT PRODUCT INFORMATION**

## **READ IMMEDIATELY**

### **SAFETY FIRST!**

Failure to observe the following safety warnings may result in serious injury or death. Use all Hydro Crunch™ products only as directed. Failure to observe these safety warnings will result in a waiver of any and all liability on the part of Hydro Crunch™ its manufacturer, and resellers, and will void all warranties to the extent permitted by law.

## **WARNINGS AND INSTRUCTIONS**

### **FOR USE:**

**Warning:** LED Hydro Grow Lights are for indoor use only. Do not expose to water drip or spray. Do not expose the lights to physical harm such as impact or severe environmental conditions. Working temperature is -20°C to 40°C.

**Warning:** When installing LED Hydro Grow Lights, ensure that the power outlets are properly grounded and have adequate capacity. If there is any doubt, please consult an electrician. Please ensure that there is adequate clearance for airflow around the lights. A minimum of 12 inches of clearance are recommended above the light and 2 inches at the sides.

**Warning:** LED grow lights can cause eye damage. Avoid looking directly at the lights when they are on. Use shielding and light blocking glasses to protect your eyes.

**Warning:** Never place the lamp “face down” on a surface, as it may damage the lenses.

**Recommendation:** It is highly recommended that surge suppressors are installed to protect your grow light investment. Power surges are one of the leading causes of premature grow light failure.

## **Overview**

Hydro Crunch LED Hydro Grow Light Series is a high performance hydroponic grow light capable of outperforming HID technology by nearly 50%. The LED Hydro Grow Light Series sets a new level for hydroponic lighting. Previous LED technology has been unable to seriously compete with HID lighting solutions and has been used as a supplementary solution to increase yield. Our new Grow Series lights are powerful enough to be used as the primary source of light in all hydroponic lighting applications. Thank you for purchasing our Hydro Crunch LED Hydro Grow light. We are sure you will be happy with the results you achieve.

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## 1. Package Contents

The package contains:

LED Grow Light Fixture

Power Cord

Instruction Manual

Hanging Kit

## 2. Instructions

**Operation** - The Hydro Crunch Grow Series LED Hydro Grow Light Fixture is a technologically advance system but is very easy to use. Simply ensure that the switch on the unit is off, plug in the supplied power cable and switch the unit on. It is that easy!

**Timer** - If you wish to add a timer to the system, simply purchase a mechanical or digital timer (rated at 10A) of your choice and plug between the fixture and the power socket. The units feature soft switching technology to help extend the LED lifespan in the event of minor surges or short circuit. This also ensures that manual switching of power to the light will not affect its longevity (e.g. manual timers).







**Hanging** - To hang the fixture, simply clip on the supplied hanging kit and mount with suitable anchor hardware relevant to the material you are hanging from. You must ensure that the vents on the sides and top of the light are unobstructed (10cm gap required for both top and sides). This will allow adequate ventilation to ensure that the fixture does not overheat.

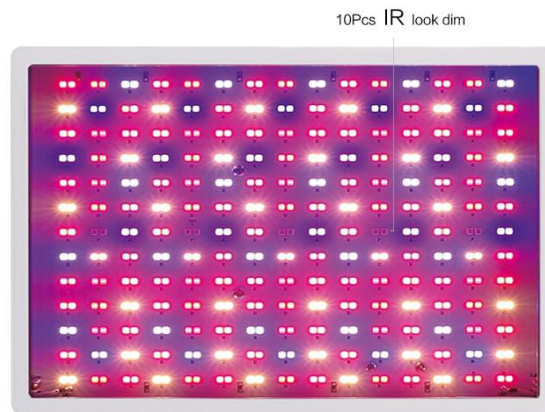
**Remote Control System (Optional Accessory)** – All LED Hydro Grow Light Models feature remote-control system inner, including a control module, an aerial and an optional remote-controller. Effective distance of controller is 100 meters (328 feet). Further information can be found in section 5.

### 3. LED Layouts

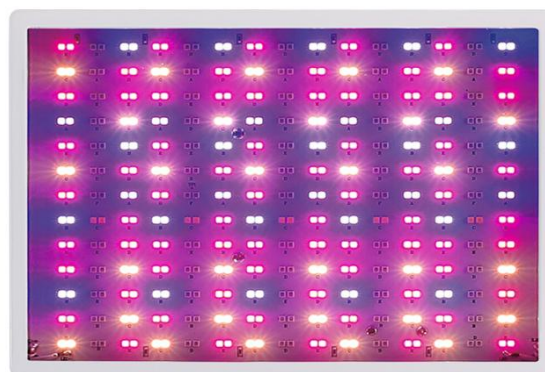
The standard layout supplied with all Grow Series models is aimed primarily at the BLOOM/FLOWER phase of plant growth and focuses more heavily in the red - orange spectrum. This does not mean that it cannot be used in the vegetation phase. It will still perform excellently during the vegetation phase but for those with the ability to run separate rooms for phases, we suggest purchasing additional Grow Series units fitted specifically with our GROWTH/VEG layout. The optional GROWTH/VEG layout is better suited to the vegetation phase of plant growth due to it focusing more heavily in the blue spectrum. It is not as suited to the BLOOM/FLOWER phase which is generally the most important phase for hydroponic growers, hence why it is not supplied as standard. Units fitted with the optional layout will have the word GROWTH printed on the product label attached to the unit itself. Units fitted with the standard layout will either be printed with the word BLOOM or will not have either words printed. The below pictures indicate the LEDs used in the two different layouts.

#### With FULL SPECTRUM

- A  440nm
- B  460nm
- C  3000K
- D  630nm
- E  660nm
- F  730nm



Growth OFF Bloom ON



Growth OFF Bloom ON

## 4. EpiStar LED Chip

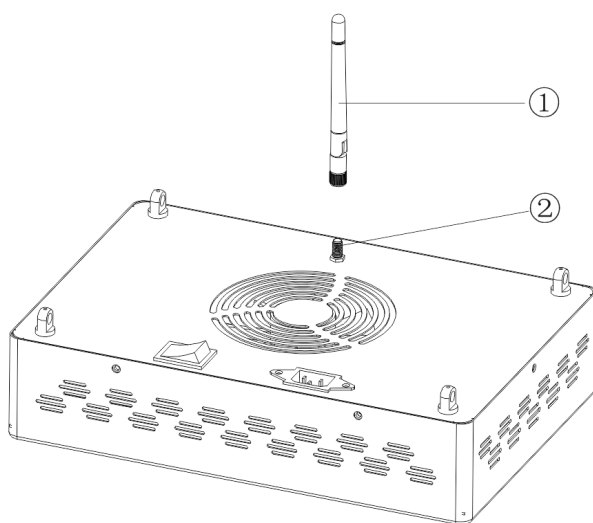
All Hydro Crunch LED Hydro Grow Series models use the latest LED chip technology from LED manufacturer, EpiStar. EpiStar is located in Taiwan and is one of the fastest growing LED manufacturers, gaining popularity for their excellent cost/performance ratio. They are highly renowned for their reliability and durability.

## 5. Remote Control System

All Hydro Crunch LED Hydro Grow Series models feature our Remote Control System.

Components: ①antenna, ②cover for signal cable

Take off the cover for signal cable and screw the black aerial on the lamp. The aerial can be bent to 90 degree.



Effective distance of controller is 100 meters (328 feet) in open places. Effective distance may be shorter due to lack of signal when the aerial is shield by metal.

## Remote Control Operation (Optional Accessory)

Remote control lights

**ON** Lights ON

**OFF** Lights OFF

**A** Growth

**B** Bloom

**Lock key**: Lights cannot be controlled by external remote control

**Unlock key**: Recover external control, Lights can be controlled by remote control



For detailed function of Remote Controller refers to "Control User Manual", which is located on the back of the controller panel. Accessory not included. Purchase separately.

## 6. Specifications

Item	600TTL-GB	600TTL-G	300TTL-G	300TTL-GB
Input Voltage	AC100-277V / 50-60Hz	AC100-277V / 50-60Hz	AC100-277V / 50-60Hz	AC100-277V / 50-60Hz
Ampere	2.5A 120V 1.25A 240V	2.5A 120V 1.25A 240V	1.25A 120V 0.63A 240V	1.25A 120V 0.63A 240V
THD	≤20%	≤20%	≤20%	≤20%
Power Factor	0.95	0.95	0.95	0.95
LED Type	High efficiency 0.5W Epistar LEDs	High efficiency 0.5W Epistar LEDs	High efficiency 0.5W Epistar LEDs	High efficiency 0.5W Epistar LEDs
LED Output Power	780pcs 0.5w	780pcs 0.5w	390pcs 0.5w	390pcs 0.5w
Rated Power	Growth : 240W ± 10% Bloom : 300W ± 10%	300W ± 10%	150W ± 10%	Growth : 120W ± 10% Bloom : 150W ± 10%
PPF	390µmol/s	390µmol/s	195µmol/s	195µmol/s
Heat Output - BTU	960	960	480	480
Lumen	10800 lm	10800 lm	5400 lm	5400 lm
Spectrum of Light	Blue(440-475nm)	Blue(440-475nm)	Blue(440-475nm)	Blue(440-475nm)
	Red(620-630nm)	Red(620-630nm)	Red(620-630nm)	Red(620-630nm)
	Red(650-660nm)	Red(650-660nm)	Red(650-660nm)	Red(650-660nm)
	Far Red(720-730nm)			Far Red(720-730nm)
	White	White	White	White
View Angle of LEDs	120°	120°	120°	120°
Working Temperature	-4°F~+122° F (-20°C~+50°C)	-4°F~+122° F (-20°C~+50°C)	-4°F~+122° F (-20°C~+50°C)	-4°F~+122° F (-20°C~+50°C)
Life-span	50000H	50000H	50000H	50000H
Standard of Power line	18AWG	18AWG	18AWG	18AWG
Color of the lamp shell	White	White	White	White
Noise Level	56dB	56dB	56dB	56dB
Product Dimension L*W*H	19.7"×8.7"×2.8" (500×220×70mm)	19.7"×8.7"×2.8" (500×220×70mm)	12.2"×8.3"×2.8" (310×210×70mm)	12.2"×8.3"×2.8" (310×210×70mm)
Net Weight	13.3lb(6kg)	13.3lb(6kg)	7.8lb(3.5kg)	7.8lb(3.5kg)
Optional features	Wireless control	Wireless control	Wireless control	Wireless control
Package size	21.6"×11.6"×5.1" (550×295×130mm)	21.6"×11.6"×5.1" (550×295×130mm)	14.1"×10.8"×5.1" (360×275×130mm)	14.1"×10.8"×5.1" (360×275×130mm)

## 7. Support

All Hydro Crunch LED Hydro Grow Series Lights are covered by a 5 year warranty. If you experience any issues with the light, please contact us via the details listed on the Hydro Crunch website [www.HydroCrunch.com](http://www.HydroCrunch.com). Feel free to contact us at any time with your questions or any feedback you may have regarding our product line. Thank you for purchasing a Hydro Crunch LED Hydro Grow Light Series LED Grow Light. – **The Hydro Crunch Team**

## Warranty Service

If the product will not work after you have read the troubleshooting guide and practiced the troubleshooting options, you are advised to return the Hydro Crunch™ light system to the retailer you purchased it from. The dealer will be able to examine the light and test its components. If they are not able to repair the light, they will return it to us for examination and repair/replacement. Do not attempt to repair any product on your own, as serious injury or death may result. If the retailer is not able to help you and the light is still under manufacturer's warranty, you may contact us for technical support. In some cases, you will be issued an RMA# (return merchandise authorization number) to return the unit for factory repair. Complete the warranty form below and return the light with all original packaging, your receipt of purchase, and a valid RMA# to the address below. Please pack and ship the light in its original packaging. If it is damaged in shipment we cannot be responsible and the warranty may be voided. Once we receive RMA package, it will be repaired or replaced and shipped back to you. Please note if an additional warranty was purchased and include the extended warranty sales receipt with your return.

### RETURN FORM

**Include the following if returning:**

- ✓ Proof of purchase
- ✓ This completed form
- ✓ RMA# on the outside of the box
- ✓ Extended warranty receipt

**Return Merchandise Authorization Number (Required):** \_\_\_\_\_

**Contact Name:** \_\_\_\_\_

**Address:** \_\_\_\_\_

\_\_\_\_\_

**Phone #:** \_\_\_\_\_

**Email Address:** \_\_\_\_\_

**Please give a brief description of your technical issue:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### SEND TO:

Hydro Crunch  
20651 Golden Spring Drive Suite 115  
Walnut, CA 91789  
714-516-8176