



Hortilight Ceramic MH Series

315W CMH Light System

Technical Specification

Release Version: V3.0

Release Date: 2019/04/01

Main advantages Hortilight CMH Light System

1. High efficiency and Energy saving

CMH lighting is a very efficient way of plant lighting. Tests do show that CMH grow lights give plants greater light intensity and grow rates than standard HPS grow lights, yet using only 60% of the electricity.

2. Long life span

Ceramic MH bulbs do have a long lifespan. We advise to replace high pressure lighting bulbs when it's efficiency goes below 75% of the original light output. CMH bulbs do lighten 25.000 hours before it's efficiency goes below 75%. Compared to HPS the lifespan of CMH bulbs is 3 times more, because HPS bulbs do lighten 8.000 hours before it's efficiency is below 75% of the original light output.

3. Full Spectrum

CMH Light Systems do have a Full Spectrum light output. Lighting with a Full Spectrum CMH Lamp does give a natural feel, like day light, and does increase the health of plants (and animals). The yield is of better quality with more nutrients and vitamins.

4. Digital Ballast

Patented low frequency square wave digital ballast with soft start and comprehensive short-circuit overheat & lamp failure protection. Comes with remote control dimmable power output and PAR Plus boosting function.

4. PAR Plus

In PAR Plus modus the light output will be boosted to 355 Watt which will increase the PAR light output significant. In PAR Plus modus the temperature of the lamp and fixture will increase within its optimum limits.

5. Distance CMH to crop

There is a very simple and unique way to determine the minimum height of the reflector. Rule of thumb is that the shortest distance from reflector to crop is minimum half the distance between the other reflectors in a multi lamp set-up. It doesn't matter if the lamp is 315 Watt or 630 Watt. It's obvious that a 630 Watt lamp illuminates a larger surface than a 315 Watt lamp, automatically increasing distance between reflector and crop. A reflector hanging lower than calculated will increase hotspots and decrease uniformity. Lower is not always better!

6. GreenPower bulb

A Hortilight 315W CMH GreenPower bulb is included.

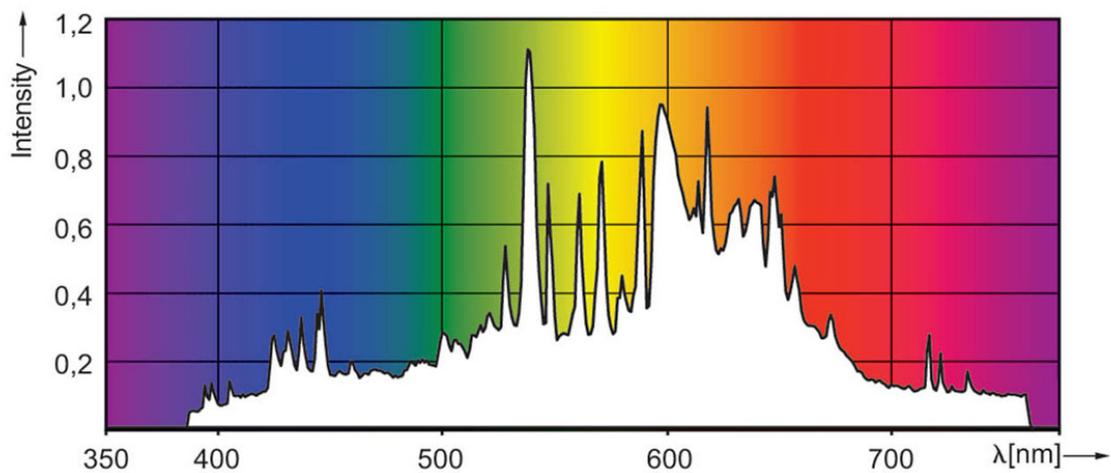
The 315 Watt CMH bulb has a bayonet connector. The lamp must be inserted in the fitting in such a way that the contact-pins fit the holes in the fitting. The 2 contact pins are shaped in a different way. Push the lamp into the fitting and turn to lock the lamp.

Pictures of 315W Fixture & Ballast



1. *A Hortilight CMH Light System is suitable for indoor and greenhouse lighting.*
2. *The 315W Ceramic MH replaces a 600W HPS / MH grow light.*
3. *Ideal for all phases of plant growth and works well in any garden, either hydroponics or soil based.*
4. *The Full Spectrum light output promotes plants photosynthesis.*
5. *OEM/ODM or customized integrated grow lighting solutions are available on request.*

315W GreenPower CMH - Full Spectrum light output



Technical specification HL315CMH-SE

Item	Value	Item	Value
CMH / CDM series	315 Watt	Power output	145W, 215W, 315W
AC inrush current	Cold start 50A	PAR Plus output	355 Watt
Operating frequency	140 – 160 Hz	Power consumption	383 Watt (max.)
Trigger Voltage	6 KV (max.)	Light decay	< 15% / 20.000h
Voltage (output)	100V	Voltage (input)	120V, 208V, 240V
Efficiency	> 91%	Work frequency	50Hz / 60Hz
Height above plants	> 0.40 meters	THD	< 6%
Working environment	-40 ~ + 50°C	Power Factor	> 99%
PPF PAR Plus output	~ 600 μmol/s	N.W.	4.3 KG / pc
Size	490*260*150mm	G.W.	4.9 KG / pc

Certification and Warranty of Hortilight CMH Light System



Note:

1. Select different lighting time depending on plant species.
2. Don't exceed maximum wire length of 20 meters between ballast & bulb.
3. Power socket should be connected to the ground/earth.
4. The CMH Light System is CE and RoHS compliant.
5. Good after sales service; 2 years warranty.