



LED Grow Master's LGM3 and LGM550 LED Terrestrial Grow Light Product Line

Specifically designed for horticulture and based on SolarOasis patented LED grow light technology. LGM lighting supports the growth and development of all photosynthesizing organisms (plants, algae, and bacteria) commonly found in hobby, commercial, and scientific areas of interest. LGM advanced technology has been proven in consumer, commercial, and research applications around the world for nearly a decade...



Consumer Benefits	Reseller Benefits
<ul style="list-style-type: none"> *The latest version of the LGM5, the LGM540, features over a 150% increase in light energy over our LGM3 model. Same small, easy to mount and maintain product housing. * Low operating temperature adds little to no heat to the growing environment. No noisy, built-in cooling fans found in imitator products.. * Promotes growth, health, and blooming all in a single product. * Extremely low energy use, from 6 watts to just over 9. Low voltage operation offers greater safety in wet environments. * Long service life without degradation of light quality or quantity. 	<ul style="list-style-type: none"> *Competitive, affordable MSRP means higher sales potential. * Proven, patented technology makes 'new' product and methods more attractive to consumers. * Easy transition from current product to LED Grow Master product, first as supplemental lighting, then as primary lighting. * Deep wholesale discounts offer large profit potential with each sale. * Single light bar kit provides low-cost entry point that allows cautious consumers to try the technology.

The LED Grow Master grow bar is offered in two models and several packaging options, to meet the needs of all consumers. The Professional model has three LED clusters, which will provide expert results in most hobby growing situations. The LGM550 professional model has five LED clusters and maximum light output for the serious hobby grower as well as most commercial growing situations. Each kit is packaged with instructions and everything necessary for immediate product use. Optional multiple light bar kits are available for attaching two to four light bars in series to a single power supply. Multiple light bar kits save the customer money and provide for an easier setup.

Power Supply

Standard power adapters included with each bar are AC input 100-240V-, 1.1A, 50-60 HZ and output 24V DC. These will plug into any standard wall socket. Bars are shipped with country specific power supplies. The bars have a DC power connector on each end that allows power to flow through the bar for connection to another bar. The limit on this "chaining" is 4 bars in a series. There are a wide variety of power supplies available for use in chaining. Ideally, one should run our products on photovoltaic or wind power, as our products are ideally suited for operating off the grid.

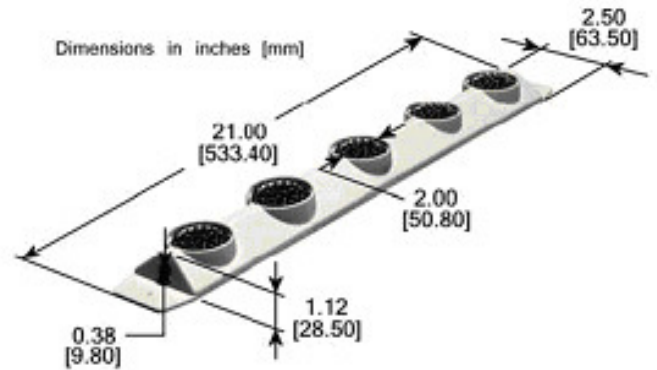
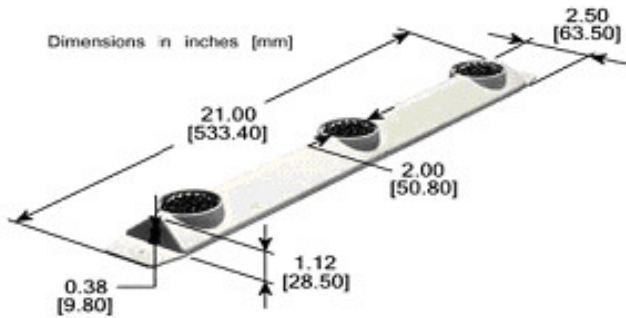


LGM3 and LGM550 Specifications

The LGM3

The LGM3 professional bar is appropriate for all stages of plant growth. Encourages robust, compact growth, and actively promotes blooming.

1 LGM3 w/power supply MSRP \$297.00 USD



The LGM550

The LGM550 is the highest performance horticultural lighting available on the market today.

1 LGM550 w/power supply MSRP \$365.00 USD

Plant Grow Light Efficiency
Targeted Plant Growth & Health Peak Spectrum
Operating Temperature
Operating Life

Power Consumption
Power Supply
Electrical Hazard
Fire Hazard
Glass Breakage Hazard
Ultra-Violet Light Emissions
White-light pollution
Environmental Impact
Time to Full Output After Power Interruption
Fixture Mounting Considerations

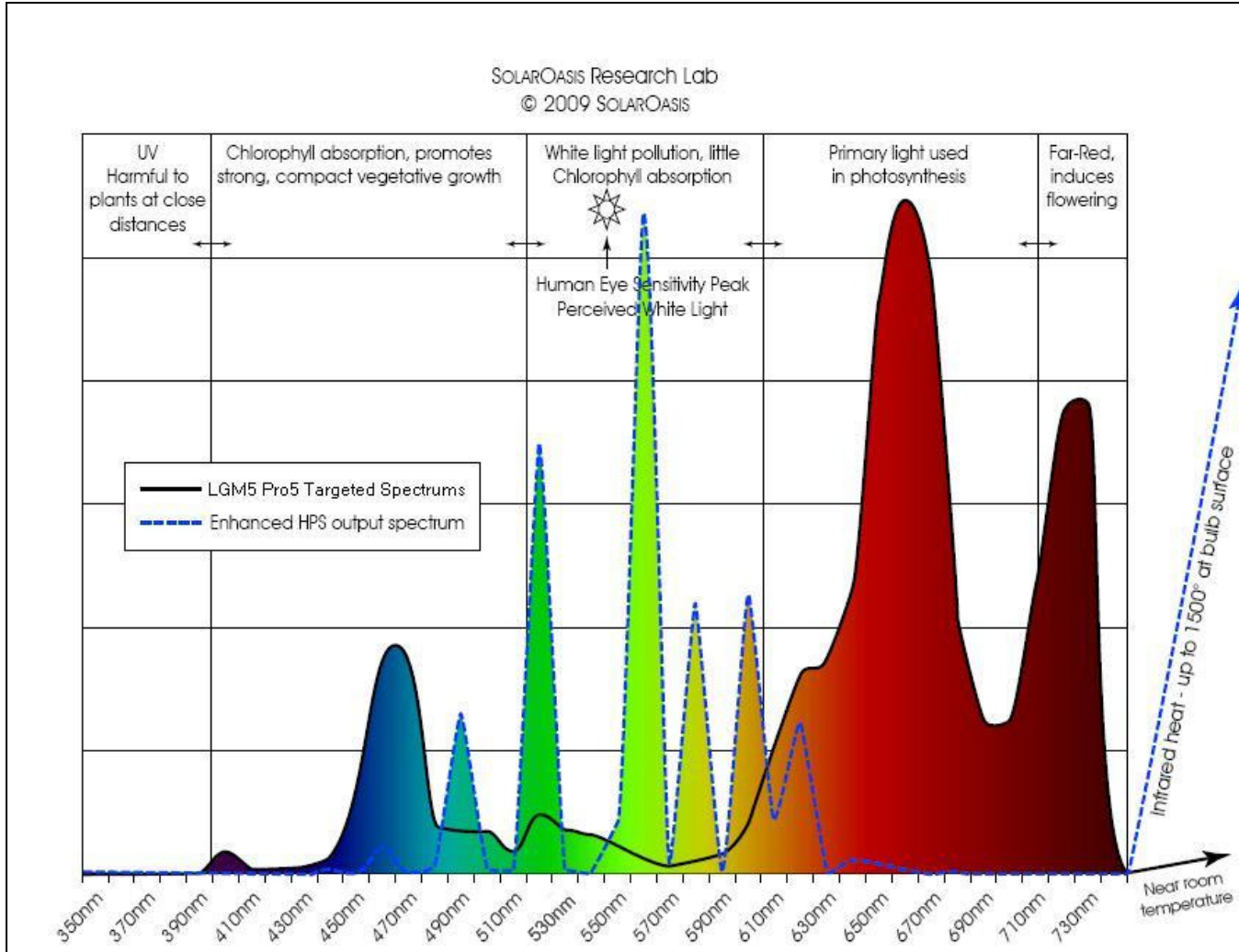
LGM3 -3 Clusters of 38 HBLED's

LGM550- 5 Clusters of 38 HBLED's

Bar Weight and dimensions LGM3,LGM550
Sun Mount
Power Adaptor

greater than 90%
 greater than 95%
 less than 15 degrees Fahrenheit above ambient temperatures
 100,000 hours, with 0% plant light production degradation at 24/7 operation
 9 Watts
 International 120/240
 No
 No
 No
 No
 No
 Minimal
 Instant full power
 User option, LED Grow Master products are easily mounted either vertically or horizontally.
 Target the light frequencies that plants rely on for growth and health. 114 LEDs per bar, 38 LEDs per cluster, 1 7/8" cluster diameter, 1 1/8" ears. Two beam spreads- 45° and 33°
 Target the light frequencies that plants rely on for growth and health. 190 LEDs Per Bar, 38 LEDs Per Cluster, 2" between clusters, 1 7/8" Cluster Diameter, 1 1/8" ears. Two beam spreads 45° and 33°
 .75 lbs 21" x 2.5" x 1"
 1.5 lbs 28" x 6" x 1"
 .75 lbs 3" x 3" x 7"

LED Grow Master LED grow lights produce only light that plants can use for growth, health, smell, and taste.



Before SolarOasis introduced the first LED light designed specifically for plant growth in 2002, all measurements of light energy were based on “White Light” products. Products such as HID, HPS, MH, and incandescent lighting were all designed to light rooms and warehouses and not to grow plants therefore, light measurement was based on what the human eye perceives as bright. These white light products produce a lot more energy than plants can use. A typical white light product produces light wavelengths from 380 nm (UV) up to and beyond 880 nm (IR). Plants, on the other hand, primarily use light wavelengths from 400 nm (blue) to 700 nm (red). This range of light wavelengths has been labeled PAR or photosynthetically active radiation. On average, nearly 82% of the light emitted from a traditional white light product is of little benefit to plant growth, and in some cases is harmful to plant health. In a typical HID, HPS, or MH light bulb this harmful energy is in the form of intense heat (IR) and ultraviolet radiation (UV) that you cannot see but can certainly feel.

Solar Oasis took a different approach, they designed a light from the ground up specifically targeting the light wavelengths that plants use for growth, health, smell, and taste producing only light that is 100% useable by plants.