SG HO GREENHOUSE LED GROW LIGHT

AG

1200W LED

1500W HPS
REPLACEMENT

HPS Direct Replacement
Directly replaces 1500W HPS fixtures with a 1:1 footprint, allowing growers to seamlessly upgrade existing HPS installations to LED with 25% energy savings.

Red Boost Spectrum
Dedicated heavy red and light blue wavelengths efficiently boost healthy vegetative and flowering stages by speeding up chlorophyll absorption rates to create faster growth cycles.

IP66 Rated
IP66 rated components protect the fixture from dust and water exposure commonly encountered in most CEA applications.

High PBAR Output & Efficacy
Designed for use in commercial greenhouses, CEA environments and hydroponic applications where boosting DLI is critical for target growth requirements.

0-10V Dimmable
Easy to use 0-10V dimming compatible with standard horticulture lighting control systems. Group control systems available upon request.
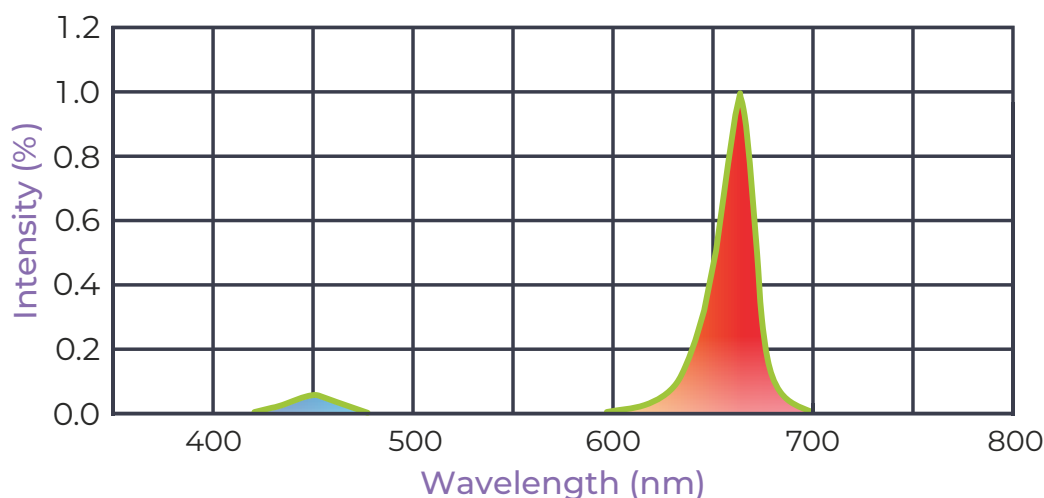
SafeShield Optic & Extra-Long Lifetime
SafeShield proprietary optics create a thermal buffer to protect LED diodes from overheating, guaranteeing a 50,000-hour lifetime.

Active Grow Red Boost Spectrum Formula

PBAR Range (280-800 nm)
Plant Biologically Active Radiation

UV 280-400 nm	Blue 400-500 nm	Green 500-600 nm	Red 600-700 nm	Far-Red 700-750 nm	Infrared 750-800 nm
0%	3%	0%	97%	0%	0%

Blue 400-500 nm
Improves overall plant health and quality including taste, aroma, color and nutrition. Helps promote plant compactness and root development.

Green 500-600 nm
Increases overall plant photosynthetic efficiency and penetrates the canopy to encourage growth of lower leaves. Makes detecting issues like pests and disease on plants easier to see.

Red 600-700 nm
Promotes plant photosynthesis and increased biomass. Essential for leaf expansion and stem growth. Helps regulate plant flowering, photoperiod and germination.

Far-Red 700-750 nm
Promotes expansion and stretching of leaves and stems. Penetrates the canopy to encourage growth of lower leaves. When used with 660-680 nm wavelengths, plant photosynthesis rates increase via the Emerson effect.
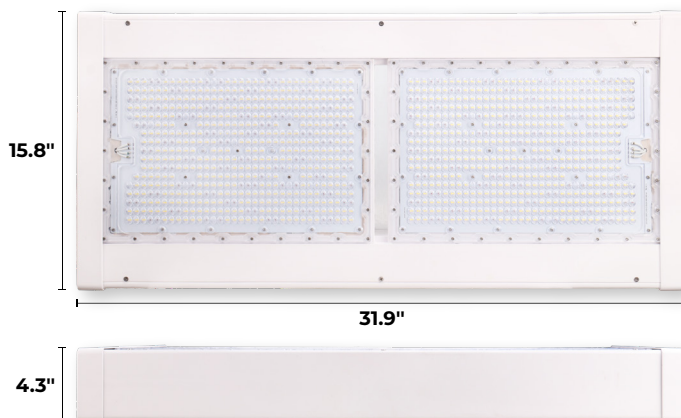

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Product Installation

The 1200W SG HO Greenhouse LED Grow Light installs easily into standard ceiling applications using included hanging hooks.

Product Dimensions

15.8"

31.9"

4.3"

SPECIFICATIONS*	1200W SG HO GREENHOUSE LED GROW LIGHT
Model number	AG/SG1200/HO/RB/277V
Power	1200 watts
Input voltage	120-277V 50-60Hz
Amperage	120V (10A) / 208V (5.77A) / 240V (5A) / 277V (4.33A)
Rated power factor	>0.95
PBAR output (280-800 nm)	4140 µmol/s
PBAR efficacy (280-800 nm)	3.45 µmol/J
Spectrum	Red Boost Spectrum
CRI	NA
Dimensions (l x w x h)	31.9"x15.8"x4.3" (810x401x109mm)
Weight	44.53 lbs (20.2 kg)
Dimmable	0-10V
Daisy chainable power	Yes (MTO)
Daisy chainable dimming	Yes
Smart controller compatible	Yes
IP rating	IP66
Max ambient temp.	113°F / 45°C
Heat load	4095 BTU/hr
THD	<20%
Lifetime	50,000 hours
Warranty	5 years
Certifications	ETL (pending), DLC (pending)
Included accessories	240V NEMA power cord, 120V plug adapter, 2 hanging hooks, safety wire with clip, waterproof port covers, RJ12 data cable
Optional accessories	120/277V NEMA power cord, power daisy chain cable, dimming daisy chain cable, 0-10V dimming cable, smart controller

* Specification data is preliminary and may be subject to change.