

The Philips logo is displayed in white text on a blue background.

Horticulture LED Solutions

GreenPower LED
production module
High Output



The efficient way to improve climate and crop control

Especially designed for your vertical growth system, the High Output version of our Philips GreenPower LED production module range is the best solution for new installations, or for existing installations to replace fluorescent tubes. Due to its high light output, it is easily possible to reach higher light levels per m². Or install to 25% fewer modules to cover the same area*, making this a very economic investment. Combined with its high energy efficiency and low radiant heat, the GreenPower LED production module High Output is the cost-effective way to improve climate and crop control for indoor cultivation environments.

Key benefits

- Controlled, uniform, high-quality (young) plant yield
- Cut investment costs by installing 25% fewer High Output modules for the same light level*
- Reduce energy costs up to 75% compared to fluorescent lamps
- Apply custom light recipes to improve crop quality with two spectral versions
- Maintain optimal conditioned environment thanks to low heat radiation

The GreenPower LED production module High Output is optimized for closed, climate-controlled cultivation facilities, such as city/vertical farms, propagation and research centers that use multilayer grow systems to grow crops such as:

- Leafy vegetables and herbs
- Bedding plants and perennials
- Tulips
- Soft fruits

*Compared to GreenPower LED production module deep red/white/far red or deep red/blue/far red

Best business results through solutions tailored to your crop and growing conditions



The right light, at the right time, in the right place

Different plants have different light needs. Philips offers a choice of 'light recipes' – dedicated combinations of spectrum, intensity, timing, uniformity and positioning – that it has developed over many years of cooperation with city farmers, greenhouse growers, universities, and research organizations. These light recipes make it possible to steer specific plant characteristics such as compactness, color intensity and branch development, resulting in optimized crop yield and quality. The production module High Output comes in two LED combinations: DR/W/FR and DR/B/FR.

Blue (B)	positive effects on compactness and hardening
White (W)	working light / full spectrum
Deep red (DR)	most efficient for photosynthesis, vegetative reproduction and stimulating shoot development
Far red (FR)	positive effect on generative properties, flower formation and rooting

Specifications	Value	
	DR/B/FR	DR/W/FR
Photosynthetic efficacy	2.2 $\mu\text{mol}/\text{J}$	2.0 $\mu\text{mol}/\text{J}$
Power consumption	37 W	41 W
Dimensions (LxWxH)	151.3 x 40.5 x 40.2 cm / 59.57 x 1.594 x 1.583 inch	
Weight (driver included)	1.7 kg / 3.7 lbs	
Initial Photon Flux	83 $\mu\text{mol}/\text{s}$	
Power input	120–277 V AC, 50–60 Hz	
Power factor	> 0.95	
Lifetime	25.000 hrs, L90B50 (90% flux maintenance) (T _a 25 °C / 77 °F)	
Ingress protection rating	IP66, UL suitable for wet locations	
Cooling	Passively air-cooled	
Approval marks	UL, CE, RoHS, ISO	
Accessories	Comprehensive range of accessories available for easy and quick installation	
Warranty	3 years	



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Document order number: 3222 635 70483 V1
11/2016
Data subject to change



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