

The Philips logo is displayed in a white rounded rectangle on a purple background. The background of the entire advertisement is a photograph of a greenhouse filled with rows of tomato plants. The plants are supported by trellis systems and are covered in green leaves and many small, unripe green tomatoes. Some plants have pink flowers. In the upper right corner, there is a circular LED logo with a rainbow gradient and the word "LED" in white. In the upper left, there is a white rounded rectangle containing the Philips logo. Below it, on a purple background, is the text "Horticulture LED Solutions". Below that, on a darker purple background, is the text "GreenPower LED toplighting compact". Below that is a photograph of the Philips GreenPower LED toplighting compact, which is a long, white, rectangular light fixture with a grid of small LED chips on its underside. The main headline "The easy switch to LED toplighting" is written in large white letters across the middle of the image. At the bottom left, there is a paragraph of text about the benefits of LED lighting. To the right of this paragraph is a purple box containing a list of key benefits. At the bottom left, there is a logo for "mais nv" which consists of a stylized sawtooth pattern above the word "mais" in a lowercase sans-serif font, with "nv" in a smaller font to the right.

Horticulture
LED Solutions

GreenPower LED
toplighting compact



The easy switch to LED toplighting

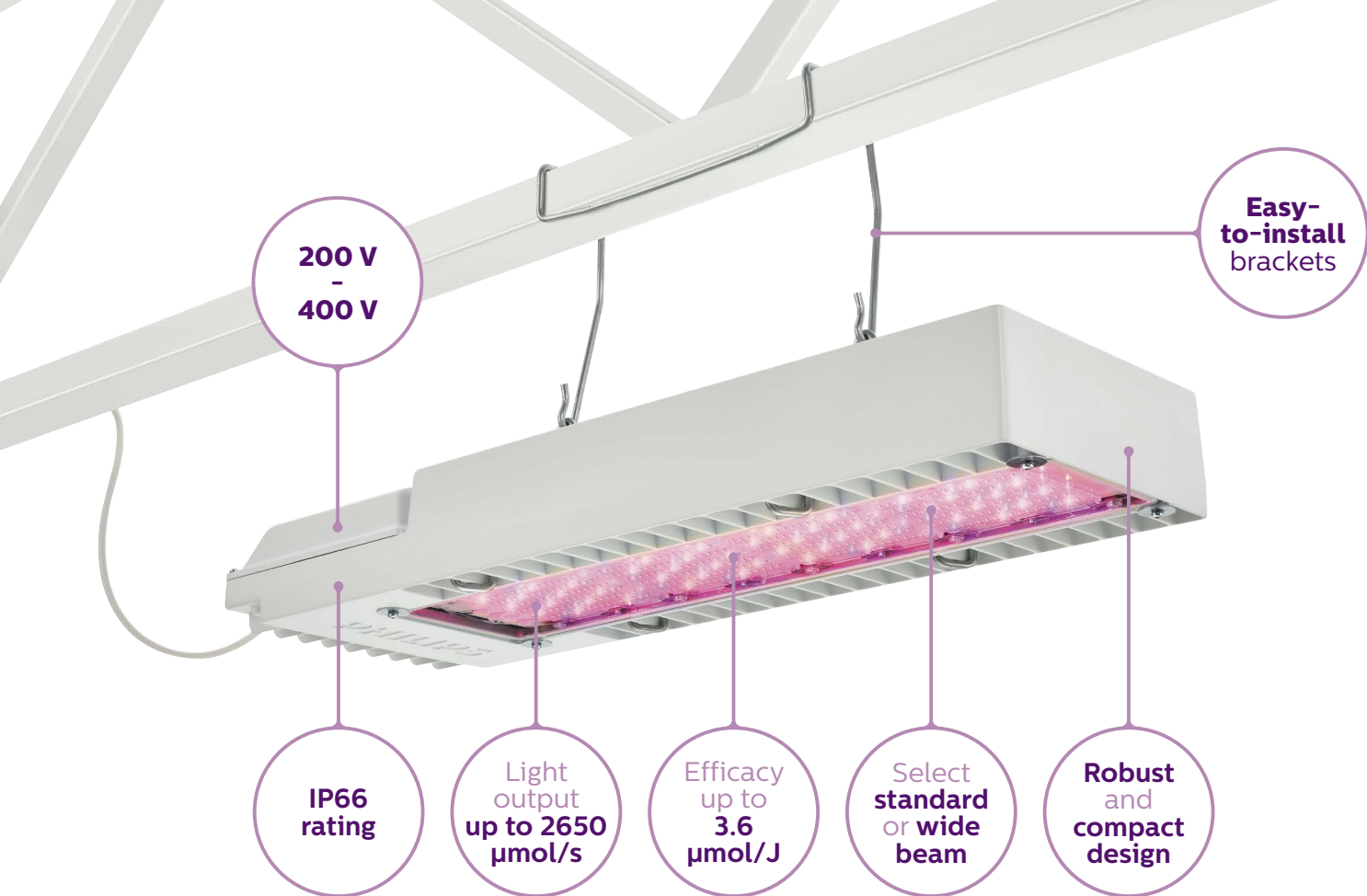
As a grower, you are probably familiar with the benefits of using LED lighting in greenhouses. However, the potentially high upfront investment in LED lighting may have held you back, especially if it meant building a new lighting set-up. That is no longer an issue with the new Philips GreenPower LED toplighting compact. It allows you to easily switch to LED lighting, using either your existing HPS set-up and trellis construction, or building a new installation. The high light output of up to $2650 \mu\text{mol/s}$ and high efficacy of up to $3.6 \mu\text{mol/J}$ help you effectively optimize crop growth, enhance crop quality and cut operational costs.

The capabilities of the GreenPower LED toplighting compact bring benefits to growers in many different segments:

- Tomatoes, cucumbers, lettuce, strawberries and other fruits and vegetables
- Roses, chrysanthemums, alstroemeria and other flowers
- Medicinal cannabis

Key benefits

- Matches key requirements for any new greenhouse or 1-to-1 retrofit LED installation
- Grow lights available for light-loving crops (up to $2650 \mu\text{mol/s}$) or low operational costs (efficacy up to $3.6 \mu\text{mol/J}$)
- Plug and play design saves time and money on installation
- Wide or standard beam provide optimal light distribution for any crop



More light, less heat, better control

New greenhouse or renovation

For a new greenhouse or renovation situation, there's a whole range of products to choose from. You can opt for a grow light with an optimized performance balancing light output & efficacy or you can choose one of our specialized solutions with either the lowest operational costs (efficacy up to 3.6 $\mu\text{mol}/\text{J}$), the highest light output (up to 2650 $\mu\text{mol}/\text{s}$) or a cost-effective light solution. Find your most suitable option in our selection tool.

1-to-1 retrofit

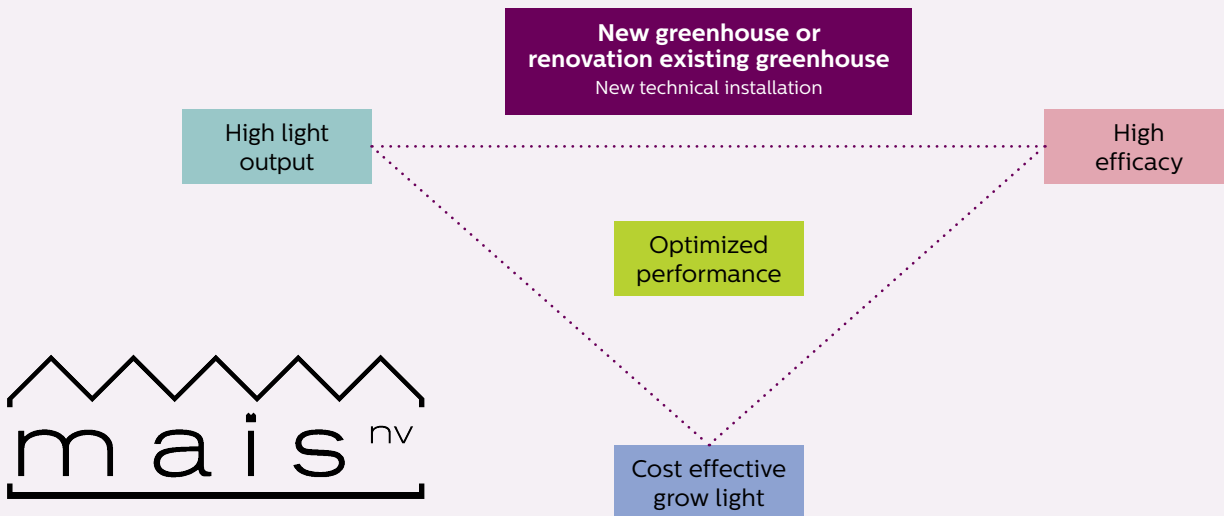
The new toplighting compact fits seamlessly in existing HPS connections and trellis constructions; even between sprinklers. There are two smart options: either you choose to replace your existing HPS installation with a similar light output and consume 50% less power, or you choose to optimize your CHP and increase your light output up to 2x 1850 $\mu\text{mol}/\text{s}$. In all cases you can make the easy switch to full LED toplighting or create a hybrid LED and HPS lighting system on your current set-up.

The passively cooled module produces much less radiant heat, putting you in control over your greenhouse climate. The compact, white housing intercepts little sunlight and comes with an IP66 ingress protection rating. On top of all this, the toplighting compact comes in a standard and wide beam, providing excellent light distribution in most greenhouse configurations, including high wire-crops.

GrowWise Control System enables dimming

The dimmable version of the GreenPower LED toplighting compact can be connected with the GrowWise Control System, allowing growers to dim the lighting to mimic the dusk to dawn interval and enhance results for specific crops. The GrowWise Control System can be used stand-alone or can be controlled via your climate computer.

Selection tool



Optimized performance for optimal combination of efficacy and light output

Beam	Voltage			Deep Red/Blue/Low Blue	Deep Red/White/Low Blue	Deep Red/White/Mid Blue	White/Low Blue
Standard beam	277-400V	Typical photon flux	μmol/s	2200	2150	2100	1650
		Power consumption (max)	W	645	645	645	645
		Efficacy	μmol/J	3.4	3.3	3.3	2.6
Wide beam	277-400V	Typical photon flux	μmol/s	2000	1950	1900	
		Power consumption (max)	W	645	645	645	
		Efficacy	μmol/J	3.1	3.0	2.9	

High light output for light-loving crops

Beam	Voltage			Deep Red/Blue/Low Blue	Deep Red/White/Low Blue	Deep Red/White/Mid Blue
Standard beam	400V	Typical photon flux	μmol/s	2650	2600	2550
		Power consumption (max)	W	780	800	780
		Efficacy	μmol/J	3.4	3.3	3.3

High efficacy for lowest operational costs

Beam	Voltage			Deep Red/Blue/Low Blue	Deep Red/White/Low Blue	Deep Red/White/Mid Blue	Deep Red/White/Far Red
Standard beam	200-400V	Typical photon flux	μmol/s	1850	1800	1750	1650
		Power consumption (max)	W	520	520	520	520
		Efficacy	μmol/J	3.6	3.5	3.4	3.2

Cost effective grow light for easier financing

Beam	Voltage			Deep Red/Blue/Low Blue	Deep Red/White/Low Blue	Deep Red/White/Mid Blue
Standard beam	277-400V	Typical photon flux	μmol/s	1800	1800	1800
		Power consumption (max)	W	590	610	620
		Efficacy	μmol/J	3.1	3.0	3.0
Wide beam	277-400V	Typical photon flux	μmol/s	1800	1800	1800
		Power consumption (max)	W	600	620	630
		Efficacy	μmol/J	3.0	2.9	2.9

All products are dimmable to 10% of the photon flux/power consumption when combined with a GrowWise Control system.

Selection tool for Roses

Select	Beam	Voltage			Deep Red/White/Far Red_4 RSE ¹
New greenhouse	Standard beam	400V	Typical photon flux	μmol/s	2250
			Power consumption (max)	W	710
			Efficacy	μmol/J	3.2
Utilize available power	Standard beam	200-400V	Typical photon flux	μmol/s	2 x 1650
			Power consumption (max)	W	2 x 520
			Efficacy	μmol/J	3.2

Selection tool


1-to-1 Retrofit

Use existing HPS connection and trellis construction





Keep existing light level
Save energy

Utilize available power
Increase light level

Keep existing light level and save energy

Select	Beam	Voltage			Deep Red/Blue/Low Blue	Deep Red/White/Low Blue	Deep Red/White/Mid Blue
Optimized performance 1000 W HPS replacement	 Standard beam	277-400V	Typical photon flux	μmol/s	2200	2150	2100
			Power consumption (max)	W	645	645	645
			Efficacy	μmol/J	3.4	3.3	3.3
	 Wide beam	277-400V	Typical photon flux	μmol/s	2000	1950	1900
			Power consumption (max)	W	645	645	645
			Efficacy	μmol/J	3.1	3.0	2.9
Cost effective 1000 W HPS replacement	 Standard beam	277-400V	Typical photon flux	μmol/s	1800	1800	1800
			Power consumption (max)	W	590	610	620
			Efficacy	μmol/J	3.1	3.0	3.0
	 Wide beam	277-400V	Typical photon flux	μmol/s	1800	1800	1800
			Power consumption (max)	W	600	620	630
			Efficacy	μmol/J	3.0	2.9	2.9

Utilize available power and increase light level

Replace	Beam	Voltage			Deep Red/Blue/Low Blue	Deep Red/White/Low Blue	Deep Red/White/Mid Blue	Deep Red/White/Mid Blue/Far Red ¹
HPS 600 Watt	 Standard beam	200-400V	Typical photon flux	μmol/s	1850	1800	1750	
			Power consumption (max)	W	520	520	520	
			Efficacy	μmol/J	3.6	3.5	3.4	
	 Standard beam	277-400V	Typical photon flux	μmol/s	1800	1800	1800	
			Power consumption (max)	W	590	610	620	
			Efficacy	μmol/J	3.1	3.0	3.0	
	 Wide beam	277-400V	Typical photon flux	μmol/s	1800	1800		
			Power consumption (max)	W	600	620		
			Efficacy	μmol/J	3.0	2.9		
HPS plus 1,000 Watt	 Standard beam	200-400V	Typical photon flux	μmol/s	2 x 1850	2 x 1800	2 x 1750	2 x 1650
			Power consumption (max)	W	2 x 520	2 x 520	2 x 520	2 x 520
			Efficacy	μmol/J	3.6	3.5	3.4	3.2

Note: half the power consumption of HPS 1,000 Watt; 2 TLC modules replace one 1,000 Watt HPS grow light
All products are dimmable to 10% of the photon flux/power consumption when combined with a GrowWise Control system.

Technical specifications

- Length: 72 cm
- Width: 24 cm
- Height: 9 cm
- Weight: 10.5 kg (incl. brackets)
- Power factor: 0,98
- Total Harmonic Distortion: < 15%
- Rated Average Lifetime²: L90: 36.000 hrs
- Ingress protection rating: IP66
- Cooling: Passively cooled
- Approval marks: CE, ENEC, RoHS, UL/CSA, RCM
- Warranty: 3 years

Notes

- ¹ The published value represents the total photon flux from 400-800nm
² Lifetime and maintenance values are given at an ambient temperature of 25°C / 77°F.
 All measured lifetimes are industry standard measurements indicating average length of operation and not a performance claim specific to any individual product.



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