

Balanced light, stronger growth

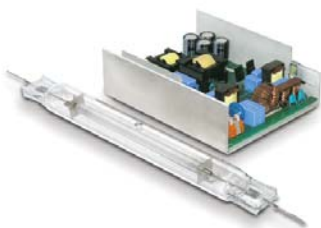


Investing in the future



- Highest growth light efficacy
- Reliable System
- Higher light levels with less daylight interception (1000W)

GreenVision / GreenPower 1000W - It's easy to see the difference



*original thinking
in lamps & gear*

PHILIPS

Simple design, latest technology

The GreenVision system has been developed with the growers' main requirements in mind: highest growth light efficiency, high reliability and low energy costs.

But what are the additional benefits of using an electronic ballast?

Mechanical

The PCB with electronic components replaces the traditional copper/iron ballast with ignitor, capacitor and filter coil. It easily weighs 5 kilograms less per system, reducing the load on the greenhouse structure. Furthermore, the compact electronics give the luminaire manufacturer more design freedom resulting in smaller luminaires and less daylight interception



Electrical

By using electronics rather than heat producing ballasts, power losses are considerably reduced. For a 600W/400V system, for example, the power consumption drops from 675W (conventional) to 635W (using electronics). Furthermore, electronic ballasts have a constant Power Factor (PF) of 0.97, whereas that of conventional gear drops from 0.92 to 0.84 over life. Thanks to the constant PF with electronics, there is only a small difference between the apparent power and the real electric power consumed, so that the transformer or combined heat and power generator can be used up to 20% more efficiently.

Economic

Electronic ballasts compensate for voltage losses in the cabling. This means that all lamps throughout the greenhouse produce the same amount of growth light. The electronics also protect the lamps against power surges, so you can expect improved lifetime.

Finally, the 400V supply voltage results in cheaper lighting systems, because there is no need for a neutral conductor, as well as there being no need for a (expensive) compensation filter to prevent the network voltage being affected by distortions due to power surges.



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System	System Power W	Mains V	Freq Hz	Current (nom) A	System Efficacy μmol/W
GreenVision 600	635	400	50	1.66	1.84
GreenVision 1000	1035	400	50	2.70	1.80

Lamp Type	Lamp Base	Lamp Wattage W	Lifetime hrs	μmol ppf
MASTER GreenPower-T 600W EL 400V	E40	615	10.000	1170
MASTER GreenPower-TD 1000W EL 400V	Wire	1000	10.000	1850



www.horticultural.lighting.philips.com

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