



## Profitable growth

**MASTER GreenPower Plus 1000W EL:** Philips has upgraded the well known GreenPower/Vision 1000W lamp & gear system. It now offers 4% more growth light and best-in-class energy efficiency of the system.

For existing installations this means more light for the same energy costs. For new installations it means substantial energy savings. For both it ultimately means more profitable growth.

Philips has been able to bring these advantages to horticulturists thanks to its unique Active-PIA technology and its newly automated production processes. Now, the MASTER GreenPower lamp has an even bigger Plus associated with its name.

**PHILIPS**  
sense and simplicity



### Perfect for luminaire manufacturers

The new, more efficient MASTER GreenPower Plus is a direct replacement for the well known MASTER GreenPower 1000W lamp. Moreover, it is the perfect fit for existing 1000W luminaire designs, both in terms of physical dimensions and electrical parameters. This means you can effortlessly upgrade without redesigning. Simply switch over to MASTER GreenPower Plus for even more  $\mu\text{mol}$  per watt.

### Ideal for horticulturists needing to re-lamp

The new lamp is also a direct replacement for existing installations. Simply re-lamp with MASTER GreenPower Plus and take advantage of visibly more growth light: +4% more to be exact.

### Improved lifetime reliability

The new MASTER GreenPower Plus lamp offers improved lifetime reliability, made possible by the latest production automation at our manufacturing site.

### Plus all the benefits of the original

The original GreenPower/Vision 1000W system was designed to fulfill horticulturists' main needs. That's why it had the highest growth light efficiency, high reliability and long lifetime. Other substantial benefits include:

### Less weight on greenhouse

When the original GreenPower/Vision 1000W system was introduced, electronic gear replaced the traditional electro-magnetic ballast. The new system therefore typically weighs up to five kilograms less per light source, substantially reducing the load on the greenhouse structure.

### More natural daylight

The compact electronic gear enables smaller luminaires, which leads to less daylight interception.

### Less unwanted heat dissipation

By using electronics rather than heat-producing ballasts, power losses from unwanted heat dissipation are considerably reduced – typically by up to 6%.

### Less energy loss via degrading PF

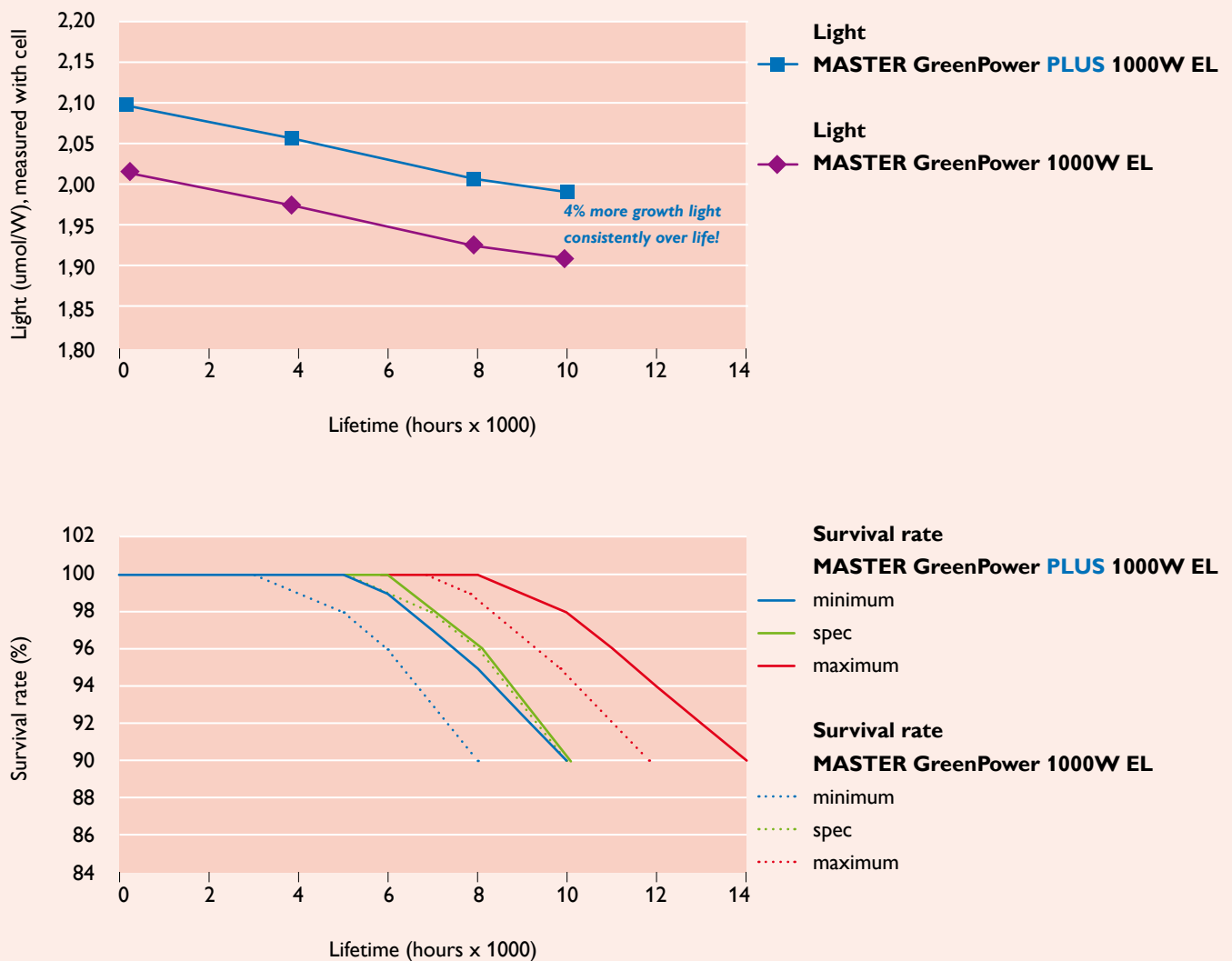
Conventional ballasts have a Power Factor (PF) that drops from 0.92 to 0.84 during their lifetime. Electronic gear, on the other hand, has a constant PF of 0.97.

### Consistent quality of growth light

Unlike conventional ballasts, electronic ballasts compensate for voltage losses in the cabling. This means that all lamps throughout the greenhouse produce the same amount of growth light.

### Longer lamp life

Electronic gear also protects the lamps against power surges, for improved lifetime.





# Specification and ordering information

## Specification

Lamp type	Lamp base	Lamp wattage W	Lifetime hrs	System efficiency $\mu\text{mol ppf}$
<b>MASTER GreenPower Plus 1000W EL</b>				
TD 1000W EL 400V	Wire	1000	10,000	2.02 $\mu\text{mol ppf}$

Gear	Mains Voltage	System wattage W	Lifetime hrs	Efficiency
GreenVisionIII 1000W GP 400V	400V	1032	30,000	96%

## Ordering information

Lamp type	Packaging configuration	12NC	European Ordering Code (EOC)
MASTER GreenPower Plus 1000W EL	UNP/60	9281 963 05115	933048 00
MASTER GreenPower Plus 1000W EL	5X6/30	9281 963 05116	933017 00

Gear	12NC	European Ordering Code (EOC)
GreenVisionIII 1000W GP 400V	9137 006 60466	909043 00
GreenVisionIII DIM 1000W GP 400V	9137 006 60666	897678 00



© 2010 Koninklijke Philips Electronics N.V.

All rights reserved. Reproduction in whole or in part is prohibited without the prior written consent of the copyright owner. The information presented in this document does not form part of any quotation or contract, is believed to be accurate and reliable and may be changed without notice. No liability will be accepted by the publisher for any consequence of its use. Publication thereof does not convey nor imply any license under patent- or other industrial or intellectual property rights.

06/2010

Document order number: 3222 635 68152

[www.philips.com/horti](http://www.philips.com/horti)