



MASTER GreenPower 1000W EL for 400V electronic systems

Lamp

MASTER GreenPower 1000W lamps are double ended High Pressure Sodium Lamps with a ceramic discharge tube, enclosed in a clear quartz glass outer bulb with optimised GrowthLight ($\mu\text{mol/s}$) output and maintenance.

Features / Benefits

- GreenPower results in optimised GrowthLight output.
- Ceramic discharge tube with PIA technology for long and reliable lifetime.
- ZrAl getter ensures excellent GrowthLight maintenance over life and fewer premature failures.
- Simple and robust construction for enhanced reliability and longer life.
- High GrowthLight maintenance safeguards a constant crop quality and quantity over life.
- Double-ended to facilitate optimal reflector designs.

Comparison of 400V Electronic system with 400V Electro Magnetic system

- Power losses are considerably reduced: 675W (conventional) to 635W (using electronics)

- Constant Power Factor (PF) of 0.97 during lifetime of the lamp: transformer or power generator used ~ 20% more efficient.
- Electronics compensate for voltage losses in the cabling: all lamps throughout the greenhouse produce the same amount of GrowthLight.

Application

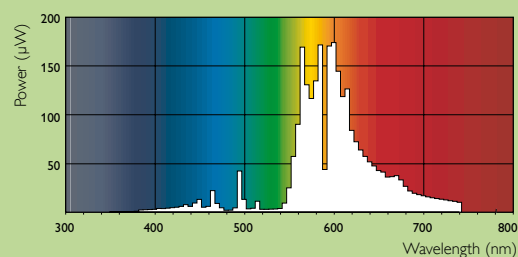
- Horticultural lighting, intended for the stimulation of CO_2 uptake for improved photosynthesis and plant growth.

Gear

- The lamp requires a specific electronic ballast; Philips GreenVision 1000W (see page 22).



MASTER GreenPower 1000W EL



Product information

| | GrowthLight PPF* (initial) | Lifetime | Maintenance (nominal) |
|---------------------------------------|-------------------------------|------------|--------------------------|
| MASTER GreenPower 1000W/400V EL | 1850 $\mu\text{mol/sec}$ | 10.000 hrs | > 90% at 10.000 hrs |

* PPF information: see page 3