



Plants grow and flourish with PLANTASTAR®

OSRAM PLANTASTAR® high-performance lamps always provide plants with the right amount of light so that they can grow to their full potential. Whether for assimilation lighting in horticulture, cultivating plants for research or breeding grass for playing surfaces, OSRAM PLANTASTAR®-TS 1000 and TS 1000 PLUS are the ideal source of light for the rapid, healthy and year-round growth of your plants.

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08/14 OSRAM S-GI MKS EM Subject to change without notice. Errors and omissions excepted.



Light is growth PLANTASTAR®

Optimal lighting for the growth of your plants



Advanced technology for reliable results

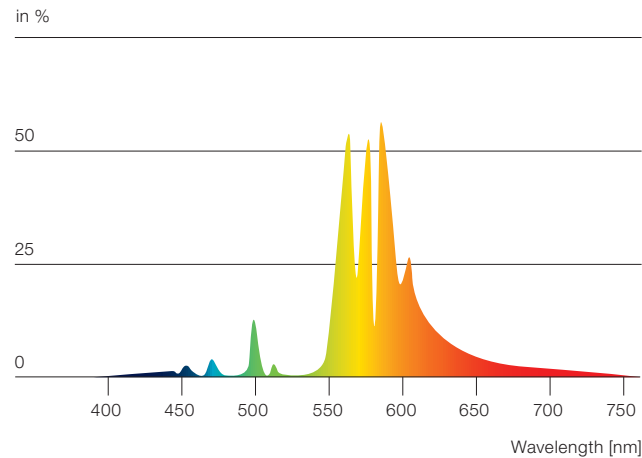
The new 1000W lamps for plant lighting from OSRAM prove their worth with a photon flux optimized for plant growth and a long lifetime. Their heat emission makes them particularly suited for mid-sized to large greenhouses.

Product features:

- High-pressure sodium lamp with 1000 watts, especially for professional horticultural lighting
- For use with high-frequency electronic control gear

- Best performance with OSRAM POWERTRONIC® PTg 1000/400
- Ideal for assimilation lighting
- Optimized filling with adapted spectra for profitable plant growth
- Very high photon flux and efficacy
- Lamp replacement after 10000 hours is recommended in order to ensure optimal and continuous growth of the plants

Wavelength spectrum



PLANTASTAR® lamps from OSRAM promote productive plant growth thanks to their very high proportion of photo-synthetically active radiation.

PLANTASTAR® -TS

Product reference	Product number	W			t [h]
PLANTASTAR-TS 1000	4008321 530356	1000	2010 ¹⁾	2.01 ²⁾	10000 ³⁾
PLANTASTAR-TS 1000 PLUS	4052899 015609	1000	2100 ¹⁾	2.1 ²⁾	10000 ³⁾

- 1) All figures in $\mu\text{mol/s}$, measured with photonic current sensor
- 2) All figures in $\mu\text{mol/s/W}$, measured with photonic current sensor
- 3) Recommended lifetime (95% survival rate)



Best performance with the OSRAM system

PLANTASTAR® lamps achieve their optimum performance and reliability when they are combined with POWERTRONIC® PTg 1000/400. The control gears ensure a long lamp life and safe operation.



POWERTRONIC® PTg 1000/400

- PCB version with aluminium base plate for best heat dissipation
- Compact dimensions
- High ECG efficiency of ~96%
- Long lifetime of 50000 h at max. t_c ¹⁾
- Wide voltage range: 360–440 V_{AC}
- Overtemperature protection

Benefits:

- Optimized lamp performance
- Prolonged lamp life

PTg 1000/400

Product reference	Product number	W	V _{AC}	A	kV START	kHz ECG
PTg 1000/400	4052899 070912	1000	400	2.6	3.2	130

Product reference	Product number	T _a	T _c
PTg 1000/400	4052899 070912	+5...+35 °C	+70 °C

1) With max. failure rate of 8% at max. t_c