



Product Highlights:

- Advanced Shock Resistance
- Advanced Ignition System
- Low installation costs
- Ceramic tube durable and robust
- Increased plant growth thanks to optimal filling, with adjusted spectrum
- Photon flux > 90% after 12,000 hours of operation
- Photon production ~1.8 $\mu\text{mol/s/W}$

Light is growth PLANTASTAR®

Inspired by nature, OSRAM uses innovations and new technologies to develop unique lighting solutions. Not to replace natural light, but to complement it. OSRAM PLANTASTAR® high-performance lamps provide plants all over the world with enough light to grow to their full potential, so they can bear fruit and perform the process of photosynthesis, which is essential for life.

Light is OSRAM



PLANTASTAR®



Features & Benefits

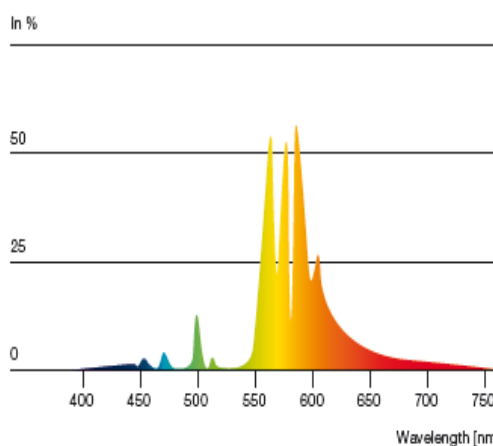
- Assimilation lighting over large areas in commercial horticulture
- Especially durable and robust thanks to a ceramic discharge tube with AIS (Advanced Ignition System) and ASR (Advanced Shock Resistance), the latest technology in elastic mounting
- Ideal for use in a damp environment thanks to a premium, corrosion-resistant ceramic base (E40) with nickel-plated thread
- Dimmable up to 50 % of the nominal wattage
- Increased plant growth thanks to optimal filling, with adjusted spectrum
- Increased light and photon flux compared to standard NAV lamps
- Photon flux > 90 % after 12,000 hours of operation
- Photon production ~1.8 µmol/s/W
- Lamps should be replaced after 12,000 hours for optimal and continuous growth
- Operation on standard HPS (NAV) magnetic ballasts

The OSRAM PLANTASTAR® family consists of PLANTASTAR® 400 W and PLANTASTAR® 600 W. Whether for commercial horticulture, cultivating plants for research, or breeding grass for playing surfaces, OSRAM PLANTASTAR® is the ideal source of light for the rapid, healthy, and year-round growth of your plants and your revenue. OSRAM PLANTASTAR® high-pressure sodium lamps are plant lights for the most demanding conditions.

The two established classics OSRAM PLANTASTAR® 400 W and OSRAM PLANTASTAR® 600 W prove their worth with optimal illuminating power and longer life, and are ideal for mid-sized to large greenhouses.

	PLANTASTAR® 400	PLANTASTAR® 600
Product Number EAN	4050300620084	4050300620107
Unique Code	OSRPLANT400WE40	OSRPLANT600WE40
Standard Pack	12	12
Wattage	400W	600W
System Wattage	450W	654W
Operating Voltage	230V	230V
Lamp Voltage	102V	112V
Ignition Voltage min/max	4/5kVs	4/5kVs
Lamp Current	4.4A	6.2A
Line current, compensated, at cos 0.9	2.4A	3.4A
Luminous flux	56,500 lm	90,000 lm
Photon flux	725 µmol/s	1,100 µmol/s
Electrode gap	82 mm	120 mm
Light center length (a)	175 mm	175 mm
Diameter (d)	46 mm	46 mm
Length (l) max	285 mm	285 mm
Base	E40	E40
Burning position	Any	Any
Recommended period of use (failure rate < 5 %, photon flux > 90 %)	12,000 hours	12,000 hours

Wavelength Spectrum



Technical Drawing

