

# PRODUCT DATASHEET

## PLANTASTAR 250 W E40

PLANTASTAR-T | High-pressure sodium vapor lamps for open and enclosed luminaires



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### AREAS OF APPLICATION

- Greenhouses
- Suitable for growth of fruit due to emission of photosynthesis optimised light
- Application only in suitable luminaires

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### PRODUCT BENEFITS

- Shorter production times
- Control over blossoming

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### PRODUCT FEATURES

- Average lifetime: 12,000 h
- Provides light for the photosynthesis in plants
- Photon flux: > 90 % after 12,000 h
- High-pressure sodium lamp especially for greenhouse lighting



**TECHNICAL DATA**

Electrical data

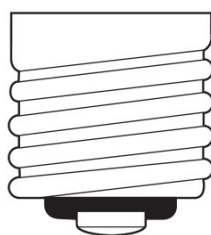
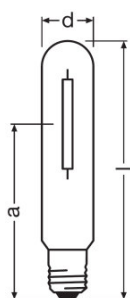
<b>Rated wattage</b>	255.00 W
<b>Lamp current</b>	2.95 A
<b>Nominal wattage</b>	250.00 W
<b>Nominal voltage</b>	100 V
<b>Ignition voltage</b>	4.0 / 5.0 kVp <sup>1)</sup>

<sup>1)</sup> Minimum / Maximum

Photometrical data

<b>Photon flux</b>	420 µmol/s
<b>Photon flux efficacy</b>	1.6 µmol/s/W
<b>Color temperature</b>	2000 K
<b>Rated LLMF at 2,000 h</b>	0.98
<b>Rated LLMF at 4,000 h</b>	0.97
<b>Rated LLMF at 6,000 h</b>	0.96
<b>Rated LLMF at 8,000 h</b>	0.95
<b>Rated LLMF at 12,000 h</b>	0.94
<b>Rated LLMF at 16,000 h</b>	0.94
<b>Rated LLMF at 20,000 h</b>	0.94
<b>Luminous flux</b>	31900 lm
<b>Color rendering index Ra</b>	25

Dimensions & weight



E40  
IEC 7004-24  
DIN 49625

<b>Diameter</b>	47.0 mm
<b>Length</b>	257.0 mm
<b>Light center length (LCL)</b>	158.0 mm
<b>Product weight</b>	148.00 g

## Temperatures &amp; operating conditions

Maximum permitted outer bulb temperature	400 °C
Maximum permitted base edge temperature	250 °C

## Lifespan

Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000 h	0.99
Rated lamp survival factor at 6,000 h	0.98
Rated lamp survival factor at 8,000 h	0.97
Rated lamp survival factor at 12,000 h	0.96
Rated lamp survival factor at 16,000 h	0.95
Rated lamp survival factor at 20,000 h	0.93
Lifespan B50	32000 h
Lifespan B10	24000 h
Lifespan B5	20000 h
Operation mode LLMF/LSF	50 Hz

## Additional product data

Base (standard designation)	E40
Design / version	clear
Mercury content	24.0 mg <sup>1)</sup>

<sup>1)</sup> Maximum

## Capabilities

Dimmable	No
Burning position	Any
Enclosed luminaire required	No

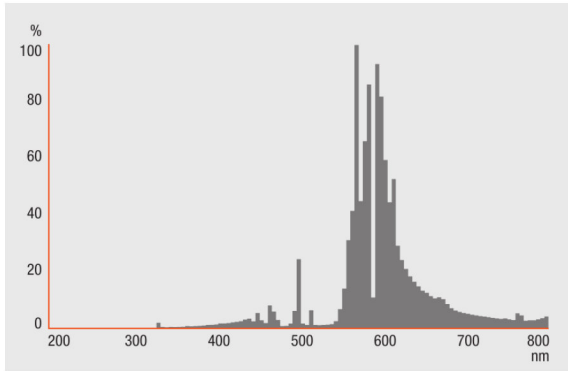
## Certificates &amp; standards

Energy efficiency class	A+
Energy consumption	281 kWh/1000h

## Country-specific categorizations

ILCOS	ST-250-H/E-E40-47/257
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Light Distribution



Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321240620	Sleeves 1	52 mm x 52 mm x 325 mm	182.00 g	0.88 dm <sup>3</sup>
4008321240637	Shipping carton box 12	266 mm x 216 mm x 342 mm	2574.00 g	19.65 dm <sup>3</sup>

The mentioned product code describes the smallest quantity unit which can be ordered. One shipping unit can contain one or more single products. When placing an order, for the quantity please enter single or multiples of a shipping unit.

DISCLAIMER

Subject to change without notice. Errors and omission excepted. Always make sure to use the most recent release.