
PLANTASTAR 600 W 400 V E40

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



Areas of application

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

Product benefits

- Shorter production times
- Control over blossoming

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



Product datasheet

Technical data

Electrical data

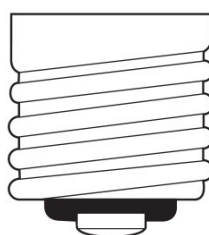
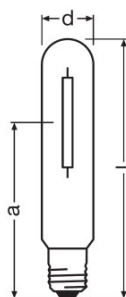
Nominal wattage	600.00 W
Rated wattage	620.00 W
Lamp current	3.44 A
Nominal voltage	210 V
Ignition voltage	4.0 / 5.0 kVp ¹⁾

¹⁾ Minimum / Maximum

Photometrical data

Photon flux	1150 $\mu\text{mol/s}$
Photon flux efficacy	1.8 $\mu\text{mol/s/W}$
Color rendering index Ra	25
Color temperature	2000 K
Rated LLMF at 2,000 h	0.98
Rated LLMF at 4,000 h	0.97
Rated LLMF at 6,000 h	0.95
Rated LLMF at 8,000 h	0.94
Rated LLMF at 12,000 h	0.93
Rated LLMF at 16,000 h	0.92
Rated LLMF at 20,000 h	0.91

Dimensions & weight



E40
IEC 7004-24
DIN 49625

Diameter	47.0 mm
Length	285.0 mm
Light center length (LCL)	175.0 mm
Product weight	182.00 g

Product datasheet

Temperatures & operating conditions

Maximum permitted outer bulb temperature	450 °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	0.98
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	0.95
Rated lamp survival factor at 16,000 h	0.95
Rated lamp survival factor at 20,000 h	0.75
Lifespan B50	24000 h
Lifespan B10	16000 h
Lifespan B5	12000 h

Additional product data

Base (standard designation)	E40
Design / version	Clear
Mercury content	22.0 mg ¹⁾

¹⁾ Maximum

Capabilities

Dimmable	No
Burning position	Any
Enclosed luminaire required	No

Certificates & standards

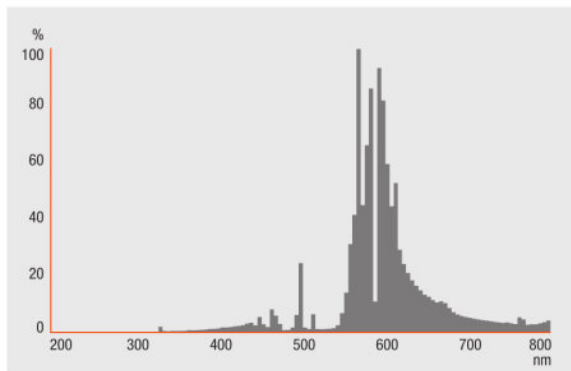
Energy efficiency class	A++
Energy consumption	682 kWh/1000h

Country specific categorizations

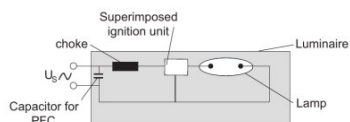
ILCOS	ST-600-E/E-E40-47/285
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Product datasheet

Light Distribution



Spectral power distribution



Circuit diagram

Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4008321284303	PLANTASTAR 600 W 400 V E40	Shipping carton box 12	266 mm x 216 mm x 342 mm	19.65 dm ³	2784.00 g

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.

Product datasheet

Disclaimer

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