PRODUCT DATASHEET
PLANTASTAR 250 W 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



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

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TECHNICAL DATA

Electrical data

Nominal wattage	250 W
Nominal voltage	100 V
Ignition voltage	4.0/5.0 kVp [1)]
Nominal current	2.95 A
PFC capacitor at 50 Hz	32 µF

1) Minimum / Maximum

Photometrical data

Luminous flux	33000 lm
Luminous efficacy	122 lm/W
Color temperature	2000 K
Color rendering index Ra	≤25
Light color	220
Rated LLMF at 2,000 h	0.98
Rated LLMF at 4,000 h	0.97
Rated LLMF at 6,000 h	0.96
Rated LLMF at 8,000 h	0.95
Rated LLMF at 12,000 h	0.94
Rated LLMF at 16,000 h	0.94
Rated LLMF at 20,000 h	0.94
UV protection	No

Dimensions & Weight

Overall length	257.00 mm
Length	257.00 mm
Light center length (LCL)	158,0 mm
Diameter	47 mm
Product weight	135.00 g

Temperatures & operating conditions

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

Lifespan

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Lifespan	32000 h
Rated lamp survival factor at 2,000 h	0.99
Rated lamp survival factor at 4,000	0.99
Rated lamp survival factor at 6,000	0.99
Rated lamp survival factor at 8,000 h	0.98
Rated lamp survival factor at 12,000 h	0.97
Rated lamp survival factor at 16,000	0.95
Rated lamp survival factor at 20,000 h	0.93
Lifespan B10	24000 h
Lifespan B5	20000 h
Lifespan B50	32000 h

Additional product data

Base (standard designation)	E40
Mercury content	21.6 mg
Design / version	Clear
Product remark	Not for general lighting

Capabilities

Dimmable	No
Burning position	Any
Enclosed luminaire required	No
Hot restart	No

Certificates & Standards

Energy consumption	270.00 kWh/1000h

Country-specific categorizations

ILCOS	ST-250-H-E40-47/257
Order reference	PLANTASTAR INTE

DOWNLOAD DATA

	DOWNLOAD DATA
PDF	User instruction
PDF	Certificates

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	DOWNLOAD DATA
PDF	Certificates
PDF	Declarations Of Conformity CE

LOGISTICAL DATA

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

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.

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