

PRODUCT DATASHEET

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



- 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

Nominal wattage	600 W
Nominal voltage	400 V
Ignition voltage	4.0/5.0 kVp ¹⁾
Nominal current	3.44 A
PFC capacitor at 50 Hz	65 µF

¹⁾ Minimum / Maximum

Photometrical data

Luminous flux	86500 lm
Luminous efficacy	138 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	0.95
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
UV protection	No

Dimensions & Weight

Overall length	285.00 mm
Length	285.00 mm
Light center length (LCL)	175,0 mm
Diameter	47 mm
Product weight	150.00 g

Temperatures & operating conditions

Maximum permitted outer bulb temperature	450 °C
Maximum permitted base edge temperature	250 °C

Lifespan

Lifespan	24000 h
Rated lamp survival factor at 2,000 h	0.98
Rated lamp survival factor at 4,000 h	0.98
Rated lamp survival factor at 6,000 h	0.97
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	0.95
Rated lamp survival factor at 20,000 h	0.94
Lifespan B10	16000 h
Lifespan B5	12000 h
Lifespan B50	24000 h

Additional product data

Base (standard designation)	E40
Mercury content	21.6 mg ¹⁾
Design / version	Clear
Product remark	Not for general lighting

¹⁾ Maximum

Capabilities

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

Certificates & Standards

Energy consumption	628.00 kWh/1000h
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Country-specific categorizations

ILCOS	ST-600-E/E-E40-47/285
Order reference	PLANTASTAR 600W

DOWNLOAD DATA

Documents and certificates	
	User instruction

Documents and certificates	
	Declarations Of Conformity CE
	Certificates
Photometric and lighting design files	
	Spectral power distribution

LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008321284303	Sleeve 1	52 mm x 52 mm x 325 mm	190.00 g	0.88 dm ³
4008321284310	Shipping box 12	266 mm x 216 mm x 342 mm	2670.00 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.