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# Product datasheet

## PLANTASTAR 600 W 400 V E40

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



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

- Shorter production times Control over blossoming



## Product datasheet

### Technical data

#### Electrical data

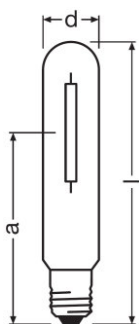
|                  |                               |
|------------------|-------------------------------|
| Nominal wattage  | 600.00 W                      |
| Rated wattage    | 620.00 W                      |
| Lamp current     | 3.44 A                        |
| Nominal voltage  | 210 V                         |
| Ignition voltage | 4.0 kVp;5.0 kVp <sup>1)</sup> |
| Nominal current  | 3.44 A                        |

<sup>1)</sup> 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                    |
| Rated luminous flux      | 83700 lm                |
| Nominal luminous flux    | 83700 lm                |
| Rated color temperature  | 2000 K                  |
| Luminous flux            | 83700 lm                |

#### Dimensions & weight



## Product datasheet

|                           |          |
|---------------------------|----------|
| Diameter                  | 47.0 mm  |
| Length                    | 285.0 mm |
| Light center length (LCL) | 175.0 mm |
| Product weight            | 182.00 g |
| Outer bulb                | T46      |
| Overall length            | 285.0 mm |

### 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  | 0.98    |
| 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 h | 0.95    |
| Rated lamp survival factor at 20,000 h | 0.94    |
| Lifespan B50                           | 24000 h |
| Lifespan B10                           | 16000 h |
| Lifespan B5                            | 12000 h |
| Operation mode LLMF/LSF                | ECG     |

### Additional product data

|                                   |                       |
|-----------------------------------|-----------------------|
| Base (standard designation)       | E40                   |
| Design / version                  | clear                 |
| Mercury content                   | 20.4 mg <sup>1)</sup> |
| Appropriate disposal acc. to WEEE | Yes                   |
| Mercury-free                      | No                    |

<sup>1)</sup> Maximum

### Capabilities

|                             |     |
|-----------------------------|-----|
| Dimmable                    | No  |
| Burning position            | Any |
| Enclosed luminaire required | No  |

### Certificates & standards

|                         |    |
|-------------------------|----|
| Energy efficiency class | A+ |
|-------------------------|----|

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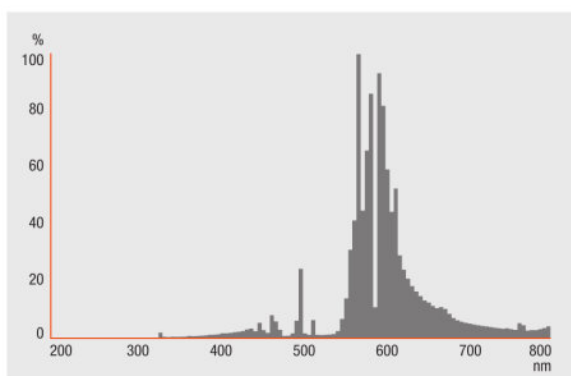
|                    |               |
|--------------------|---------------|
| Energy consumption | 682 kWh/1000h |
|--------------------|---------------|

### Country specific categorizations

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

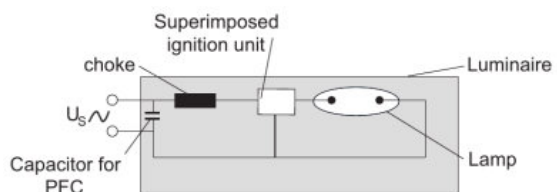
### Light Distribution

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### PLANTASTAR



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### OPERATION OF HIGH INTENSITY DISCHARGE LAMPS WITH A SUPERIMPOSED IGNITION UNIT

## Product datasheet

### Logistical Data

| Product code  | Product description           | Packaging unit (Pieces/Unit)             | Dimensions (length x width x height) | Volume                | Gross weight |
|---------------|-------------------------------|--|--------------------------------------|-----------------------|--------------|
| 4008321284303 | PLANTASTAR 600 W<br>400 V E40 | Shipping carton box<br>12 Pieces Sleeves | 266 mm x 216 mm x<br>342 mm          | 19.65 dm <sup>3</sup> | 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.

### Disclaimer

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

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