

## 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

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



Technical data

Electrical data

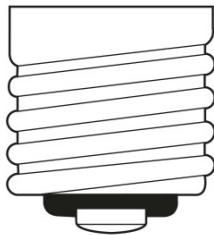
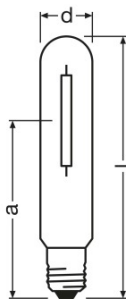
|                  |                             |
|------------------|-----------------------------|
| Nominal wattage  | 250.00 W                    |
| Rated wattage    | 255.00 W                    |
| Lamp current     | 2.95 A                      |
| Nominal voltage  | 100 V                   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

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

Photometrical data

|                          |              |
|--------------------------|--------------|
| Photon flux              | 420 µmol/s   |
| Photon flux efficacy     | 1.6 µmol/s/W |
| Color rendering index Ra | 20           |
| 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    | 0.96         |
| Rated LLMF at 8,000 h    | 0.95         |
| Rated LLMF at 12,000 h   | 0.94         |
| Rated LLMF at 16,000 h   | 0.94         |

Dimensions & weight



E40  
IEC 7004-24  
DIN 49625

|                           |          |
|---------------------------|----------|
| Diameter                  | 47.0 mm  |
| Length                    | 257.0 mm |
| Light center length (LCL) | 158.0 mm |
| Product weight            | 148.00 g |

Temperatures & operating conditions

## Product datasheet

|  |        |
|--|--------|
| 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  | 0.98    |
| Rated lamp survival factor at 12,000 h | 0.97    |
| Lifespan B50                           | 32000 h |
| Lifespan B10                           | 24000 h |
| Lifespan B5                            | 20000 h |

### Additional product data

|                             |                       |
|-----------------------------|-----------------------|
| Base (standard designation) | E40                   |
| Design / version            | Clear                 |
| Lamp mercury content        | 24.0 mg <sup>1)</sup> |

<sup>1)</sup> Maximum

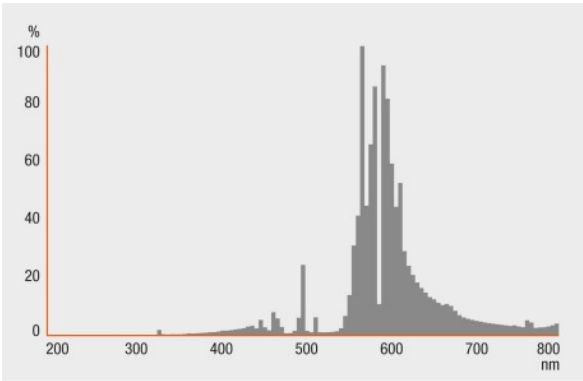
### Capabilities

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

### Country specific categorizations

|       |                       |
|-------|-----------------------|
| ILCOS | ST-250-H/E-E40-47/257 |
|-------|-----------------------|

Light Distribution



Spectral power distribution

Logistical Data

| Product code  | Product description     | Packaging unit<br>(Pieces/Unit) | Dimensions (length<br>x width x height) | Volume                | Gross weight |
|---------------|-------------------------|---------------------------------|---|-----------------------|--------------|
| 4008321240620 | PLANTASTAR 250 W<br>E40 | Shipping carton box<br>12       | 270 mm x 346 mm x<br>222 mm             | 20.74 dm <sup>3</sup> | 2933.00 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.