

PRODUCT DATASHEET

PLANTASTAR 1000 W

PLANTASTAR-TS | 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
- Provides light for higher fruit, flower and vegetable harvest in greenhouses

PRODUCT FEATURES

- Lifetime (B10): minimum up to 10,000 h
- Provides light for the photosynthesis in plants
- Photon flux: minimum 90 % after 10,000 h
- High-pressure sodium lamp especially for greenhouse lighting



TECHNICAL DATA

Electrical data

| | |
|------------------|-----------|
| Nominal wattage | 1000.00 W |
| Rated wattage | 1020.00 W |
| Lamp current | 4.4 A |
| Nominal voltage | 230.0 V |
| Ignition voltage | 2.3 kVp |

Photometrical data

| | |
|--------------------------|---------------|
| Photon flux | 2020 µmol/s |
| Photon flux efficacy | 1.98 µmol/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 | 0.96 |
| Rated LLMF at 6,000 h | 0.94 |
| Rated LLMF at 8,000 h | 0.92 |
| Rated LLMF at 10,000 h | 0.9 |
| Rated LLMF at 12,000 h | 0.88 |

Dimensions & weight



| | |
|---------------------------|-----------------------|
| Diameter | 38.0 mm ¹⁾ |
| Construction length | 394 mm ¹⁾ |
| Light center length (LCL) | 195.0 mm |
| Product weight | 125.00 g |

¹⁾ maximum

Temperatures & operating conditions

| | |
|--|--------|
| Maximum permitted outer bulb temperature | 700 °C |
|--|--------|

| | |
|--|--------|
| Maximum permitted pinch temperature | 250 °C |
|--|--------|

Lifespan

| | |
|---|---------|
| Rated lamp survival factor at 2,000 h | 0.98 |
| Rated lamp survival factor at 4,000 h | 0.96 |
| Rated lamp survival factor at 6,000 h | 0.94 |
| Rated lamp survival factor at 8,000 h | 0.92 |
| Rated LSF at 10,000 h | 0.9 |
| Rated lamp survival factor at 12,000 h | 0.88 |
| Lifespan B10 | 10000 h |
| Operation mode LLMF/LSF | ECG |

Additional product data

| | |
|------------------------------------|--------------------------------------|
| Base (standard designation) | K12X30s |
| Product remark | Operation on high frequency ECG only |
| Design / version | Clear |
| Mercury content | 52.8 mg |

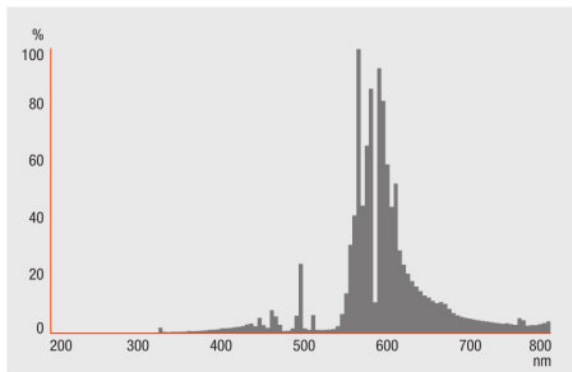
Capabilities

| | |
|------------------------------------|------------|
| Burning position | Horizontal |
| Enclosed luminaire required | No |

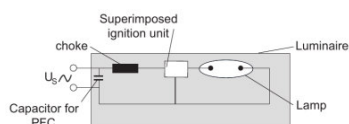
Country-specific categorizations

| | |
|--------------|--------------------------------|
| ILCOS | SD-1000-E/E/H-K12=30s-37.5/394 |
|--------------|--------------------------------|

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 |
|---------------|---------------------|------------------------------|--------------------------------------|----------------------|--------------|
| 4058075807242 | PLANTASTAR 1000 W | Shipping carton box 6 | 430 mm x 283 mm x 64 mm | 7.79 dm ³ | 935.00 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.