

## PRODUCT DATASHEET

### ST5HE35-AC 18 W/3000 K 1449 mm

SubstiTUBE T5 100-240V AC | LED tubes for operation on AC mains connection



#### Areas of application

- Offices, public buildings
- Supermarkets and department stores
- Industry
- General illumination within ambient temperatures from -20...+45 °C

#### Product benefits

- No bending thanks to glass technology
- Shatter protection thanks to special PET coating
- High luminous flux for sophisticated lighting tasks

#### Product features

- LED replacement for T5 fluorescent lamps with G5 base on AC mains
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- High color consistency:  $\leq 5$  sdcn
- Lifetime up to 50,000 h
- Low flicker according to EU 2019/2020
- Type of protection: IP20

TECHNICAL DATA

Electrical data

|                           |             |
|---------------------------|-------------|
| Nominal wattage           | 18 W        |
| Nominal voltage           | 100...240 V |
| Operating mode            | AC          |
| Nominal current           | 200 mA      |
| Type of current           | AC          |
| Operating frequency       | 50/60 Hz    |
| Mains frequency           | 50/60 Hz    |
| Total harmonic distortion | < 20 %      |
| Power factor $\lambda$    | > 0.90      |

Photometrical data

|                                      |            |
|--------------------------------------|------------|
| Luminous flux                        | 2550 lm    |
| Luminous efficacy                    | 141 lm/W   |
| Light color (designation)            | Warm White |
| Color temperature                    | 3000 K     |
| Color rendering index Ra             | > 80       |
| Light color                          | 830        |
| Standard deviation of color matching | ≤5 sdcn    |

Light technical data

|               |            |
|---------------|------------|
| Beam angle    | ˆ 160.00 ° |
| Starting time | < 0.5 s    |

Dimensions & Weight



|                |            |
|----------------|------------|
| Overall length | 1449.00 mm |
| Diameter       | 16.50 mm   |
| Product weight | 200.00 g   |

Temperatures & operating conditions

|                                      |              |
|--------------------------------------|--------------|
| Ambient temperature range            | -20...+45 °C |
| Maximum temperature at tc test point | 64 °C        |

## Lifespan

|                           |         |
|---------------------------|---------|
| Lifespan L70/B50 at 25 °C | 50000 h |
|---------------------------|---------|

## Additional product data

|                             |         |
|-----------------------------|---------|
| Base (standard designation) | G5      |
| Mercury content             | 0.0 mg  |
| Mercury-free                | Yes     |
| Design / version            | Frosted |

## Capabilities

|          |    |
|----------|----|
| Dimmable | No |
|----------|----|

## Certificates & Standards

|                    |               |
|--------------------|---------------|
| Type of protection | IP20          |
| Standards          | CB / IEC62776 |

## Country-specific categorizations

|                 |                 |
|-----------------|-----------------|
| Order reference | ST5HE35-1.5M18W |
|-----------------|-----------------|

## LOGISTICAL DATA

|                              |              |
|------------------------------|--------------|
| Temperature range at storage | -20...+80 °C |
|------------------------------|--------------|

## Energy labelling regulation data acc EU 2019/2015

|                                                     |            |
|-----------------------------------------------------|------------|
| Lighting technology used                            | LED        |
| Light source cap-type (or other electric interface) | G5         |
| Length                                              | 1449.00 mm |
| Height                                              | 16.50 mm   |
| Width                                               | 16.50 mm   |

## Safety advice

- Not suitable for operation with electronic control gear.
- Operation in outdoor applications in suitable damp-proof luminaires possible according to data sheet and installation instruction.
- The operating temperature range of LED tube is restricted. In case of doubt regarding suitability of the application please measure T<sub>c</sub> temperature on the product prior to installation.

## DOWNLOAD DATA

| Photometric and lighting design files                                              |                                     | Document name          |
|------------------------------------------------------------------------------------|-------------------------------------|------------------------|
|  | IES file (IES)                      | ST 5HE 35 1.5M 18W 830 |
|  | Light distribution curve type polar | ST 5HE 35 1.5M 18W 830 |

LOGISTICAL DATA

| Product code  | Packaging unit (Pieces/Unit) | Dimensions (length x width x height) | Gross weight | Volume                |
|---------------|------------------------------|--------------------------------------|--------------|-----------------------|
| 4099854098604 | Sleeve<br>1                  | 1,465 mm x 20 mm x 24 mm             | 226.00 g     | 0.70 dm <sup>3</sup>  |
| 4099854098611 | Shipping box<br>10           | 1,545 mm x 140 mm x 85 mm            | 2686.00 g    | 18.39 dm <sup>3</sup> |

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.