

# PRODUCT DATASHEET SubstiTUBE T5 HF HE28 17 W/3000 K 1163.00 mm

SubstiTUBE TUBE T5 HF | LED tubes for electronic high frequency control gears



## Areas of application

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

## Product benefits

- No bending thanks to glass technology
- Quick, simple and safe replacement without rewiring
- High luminous flux for sophisticated lighting tasks
- Also suitable for operation at low temperatures

## Product features

- Retrofit replacement of existing T5 lamps on HF ballast installations
- Lamp tube made of glass with splinter protection e.g. for food industry applications
- High color consistency: ≤ 5 sdcm





- Lifetime up to 50,000 h
- Low flicker according to EU 2019-2020 (SVM  $\leq$  0.4 / PstLM  $\leq$  1)
- Type of protection: IP20
- Compatible with many common electronic control gears (see also compatibility list)

# TECHNICAL DATA

# Electrical data

Nominal wattage	17 W
Construction wattage	17.00 W
Nominal voltage	100130 V
Operating mode	HF (ECG mode)
Nominal current	147 mA
Type of current	AC
Inrush current	18 A
Operating frequency	2570 kHz
Mains frequency	2570 kHz
Total harmonic distortion	< 20 %
Power factor $\lambda$	> 0.90

# Photometrical data

Luminous flux	2150 lm
Luminous efficacy	126 lm/W
Lumen main.fact.at end of nom.life time	0.70
Light color (designation)	Warm White
Color temperature	3000 K
Color rendering index Ra	83
Light color	830
Standard deviation of color matching	≤5 sdcm

# Light technical data

Beam angle	190 °
Warm-up time (60 %)	< 2.00 s
Starting time	< 0.5 s

# Dimensions & Weight



Discussion.	47.00
Diameter	17.00 mm
Maximum diameter	17 mm
Product weight	155.00 g
Temperatures & operating conditions	
Ambient temperature range	-20+45 °C
Maximum temperature at tc test point	62 °C
Lifespan	
Number of switching cycles	200000
Lumen maintenance at end of service lifetime	0.70
Rated lamp survival factor at 6,000 h	≥ 0.90
Additional product data	
Base (standard designation)	G5
Mercury content	0.0 mg
Design / version	Frosted
Capabilities	
-	Frosted No
Capabilities	
Capabilities  Dimmable	
Capabilities  Dimmable  Certificates & Standards	No
Capabilities  Dimmable  Certificates & Standards  Energy efficiency class	No E
Capabilities  Dimmable  Certificates & Standards  Energy efficiency class  Energy consumption	No  E  19.00 kWh/1000h
Capabilities  Dimmable  Certificates & Standards  Energy efficiency class  Energy consumption  Type of protection	No  E  19.00 kWh/1000h  IP20
Capabilities  Dimmable  Certificates & Standards  Energy efficiency class  Energy consumption  Type of protection  Standards  Photobiological safety group acc. to EN62778	No  E  19.00 kWh/1000h  IP20  CE
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Capabilities  Dimmable  Certificates & Standards  Energy efficiency class  Energy consumption  Type of protection  Standards  Photobiological safety group acc. to EN62778  Country-specific categorizations  Order reference	No   E   19.00 kWh/1000h   IP20   CE   RG0
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Capabilities  Dimmable  Certificates & Standards  Energy efficiency class  Energy consumption  Type of protection  Standards  Photobiological safety group acc. to EN62778  Country-specific categorizations  Order reference  LOGISTICAL DATA  Temperature range at storage	No  E  19.00 kWh/1000h  IP20  CE  RG0  RL-T5 28 17W/83
Capabilities  Dimmable  Certificates & Standards  Energy efficiency class  Energy consumption  Type of protection  Standards  Photobiological safety group acc. to EN62778  Country-specific categorizations  Order reference  LOGISTICAL DATA  Temperature range at storage  Energy labelling regulation data acc EU 2019/2015	No   E   19.00 kWh/1000h   IP20   CE   RG0   RL-T5 28 17W/83   -20+80 °C

Height	17.00 mm
Width	17.00 mm
EPREL ID	642869

## Safety advice

- 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 Tc temperature on the product prior to installation.
- All electrical connections must be made by a qualified person.
- Not suitable for emergency lighting.

# LOGISTICAL DATA

Product code	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Gross weight	Volume
4008597202490	Sleeve 1	1,165 mm x 20 mm x 24 mm	173.00 g	0.56 dm <sup>3</sup>
4008597602498	Shipping box 10	1,218 mm x 153 mm x 80 mm	2148.00 g	14.91 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.

#### References / Links

- For current information see www.ledvance.com/osram-substitube

## Legal advice

- When used to replace a T5 fluorescent lamp the total energy efficiency and light distribution depends on the design of the lighting system.

# **DISCLAIMER**

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