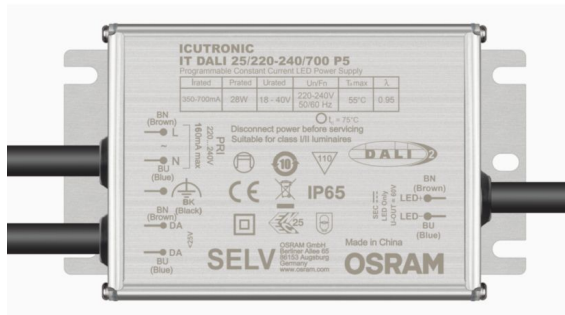


## IT DALI 25/220-240/700 P5 CE (PHASE OUT)

ICUTRONIC - DALI (AstroDIM) IP65 (SELV) | Constant current LED drivers



### Product family features

- Supply voltage: 220...240 V
- AstroDim functionality
- Constant Lumen Output (CLO)
- Available with different wattage: 15 W, 25 W, 40 W
- DALI dimming (min.10%)

### Product family benefits

- High surge protection: up to 4 kV (L-N)
- Fully programmable via T4T software (DALI / AstroDIM / Constant Lumen)
- Over temperature protection
- Double isolation between primary/secondary sides (SELV)
- IP rating: IP65
- Long lifetime

### Areas of application

- Industry lighting
- Suitable for luminaires of protection class I and II
- Street and urban lighting
- Residential lighting

## Technical data

### Electrical data

Nominal input voltage	220...240 V
Mains frequency	50/60 Hz
Input voltage AC	198...264 V
Nominal input current at 230 V	0.16 A
Total harmonic distortion	< 8 %
Power factor $\lambda$	> 0.95 <sup>1)</sup>
Efficiency in full-load	86 % <sup>2)</sup>
Device power loss	4.5 W <sup>3)</sup>
Inrush current	10 A <sup>4)</sup>
Max. ECG no. on circuit breaker 10 A (B)	42 <sup>5)</sup>
Max. ECG no. on circuit breaker 16 A (B)	68 <sup>5)</sup>
Surge capability (L-N)	2 kV
Surge capability (L/N-Ground)	4 kV <sup>6)</sup>
Nominal output voltage	18...40 V
U-OUT (working voltage)	60 V
Nominal output current	350...700 mA <sup>7)</sup>
Minimum output current	350 mA
Default output current	350 mA
Output current tolerance	$\pm 7.5$ %
Output ripple current (100 Hz)	$\pm 5$ % <sup>8)</sup>
Nominal output power	6.3...28 W
Maximum output power	28 W

1) Full load

2) at 230 V, 50 Hz

3)  $V_{in}$  230v 50Hz

4) Max,  $t_h = 250 \mu s$

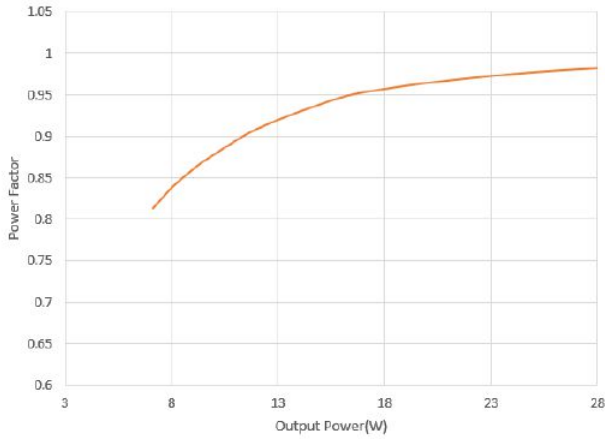
5) Type B

6) L/N – PE acc to EN 61547 Clause 5.7

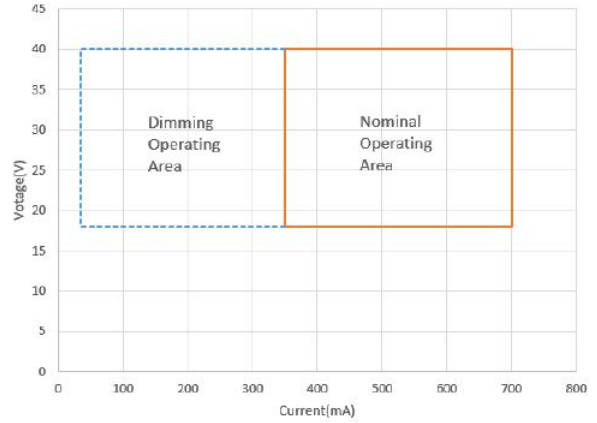
7) Default current 350 mA

8) Low frequency  $\leq 100$ Hz, full load @ 230V

## Typical Power Factor v Load



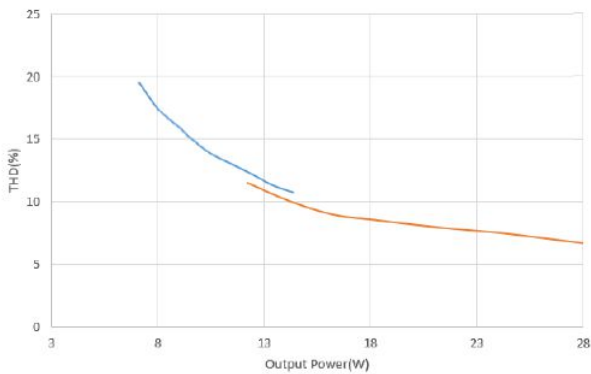
## Operating Window



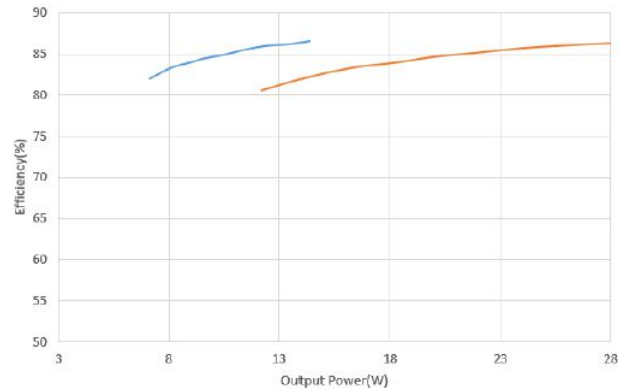
IT DALI 25 220-240 700 P5 CE Typical Power Factor vs. Load

IT DALI 25 220-240 700 P5 CE Operating Window

## Typical THD v Load



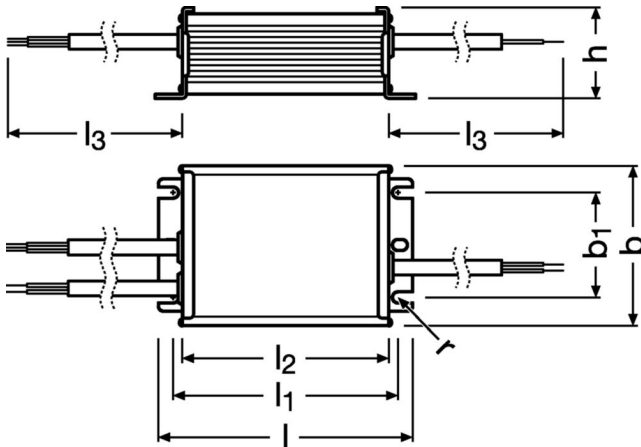
## Typical Efficiency v Load 230 V 50 Hz



IT DALI 25 220-240 700 P5 CE Typical THD vs Load

IT DALI 25 220-240 700 P5 CE Typical Efficiency vs. Load

## Dimensions & weight



Product weight	400.00 g
Length	114.6 mm
Width	68.5 mm
Height	39.6 mm
Mounting hole spacing, width	42.9 mm
Cable cross-section, input side	1.0 mm <sup>2</sup>
Cable cross-section, output side	1.0 mm <sup>2</sup>
Wire preparation length, input side	10 mm
Wire preparation length, output side	10 mm

## Colors & materials

Casing material	Aluminium
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## Temperatures & operating conditions

Ambient temperature range	-20...+55 °C
Maximum temperature at tc test point	75 °C
Max.housing temperature in case of fault	110 °C
Temperature range at storage	-25...85 °C
Permitted rel. humidity during operation	5...95 % <sup>1)</sup>

1) Non condensing, absolute humidity: 36g/m<sup>3</sup>

## Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
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1) At maximum  $T_c = 75^\circ\text{C}$  / 10% failure rate

## Capabilities

<b>Control interface</b>	DALI-2
<b>Dimmable</b>	Yes
<b>Dimming interface</b>	DALI / AstroDIM
<b>Dimming range</b>	10...100 %
<b>Constant lumen function</b>	Yes
<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Suitable for fixtures with prot. class</b>	I / II
<b>Type of connection, input side</b>	Cables
<b>Type of connection, output side</b>	Cables
<b>Overload protection</b>	Yes
<b>Short-circuit protection</b>	Yes
<b>Intended for no-load operation</b>	No
<b>No-load proof</b>	Yes

1) Output wires must be routed as close as possible to each other

## Programming

Programming device	DALI
Tuner4TRONIC	Yes

## Programmable features

AstroDIM	Yes
StepDIM	not relevant

## Certificates & standards

Approval marks – approval	CE / ENEC
Standards	IEC/EN 61347-1 / ENEC: 61347-2-13 / IEC/EN 61547
Type of protection	IP65

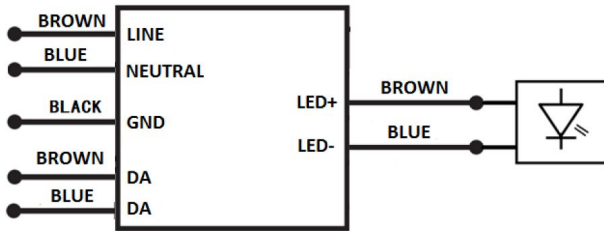
## Logistical data

Commodity code	85044083900
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## Environmental information

Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH)	
Date of Declaration	28-02-2025
Primary Article Identifier	4062172174237
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

## Wiring Diagram



Wiring Diagram of IT DALI 220-240 P5

### Ecodesign regulation information:

Intended for use with LED modules.

The forward voltage of the LED light source shall be within the defined operating window of the control gear in all operating conditions including dimming if applicable.

Separate control gear and light sources must be disposed of at certified disposal companies in accordance with Directive 2012/19/EU (WEEE) in the EU and with Waste Electrical and Electronic Equipment (WEEE) Regulations 2013 in the UK. For this purpose, collection points for recycling centres and take-back systems (CRSO) are available from retailers or private disposal companies, which accept separate control gear and light sources free of charge. In this way, raw materials are conserved and materials are recycled.



### Additional product information

- Input overvoltage protection: the driver withstands an input voltage up to 305 Vac for a maximum of two hours, shut down of the output load might occur in case the supply voltage exceeds the declared input voltage range.
- Output short circuit protection: short circuit current is limited to the actual output current setting without damage to the unit. See typical operating window graph for details;
- Output under voltage operation: The output current setting is still effective if the load voltage is below the minimum output voltage without any safety issue, but normal performance such as output power, THD, EMI and lifetime etc is not guaranteed. See typical operating window graph for details.
- Output over load/voltage protection: In case the input voltage of the load exceeds the output voltage range which is auto defined by output current setting of the driver ( $V_o = P_o / I_o$ ), it automatically reduces the output current. Auto-reversible without mains power on/off;
- No load protection: the driver automatically adjusts the output voltage to the maximum output voltage which is auto defined by output current setting if no load is connected. Auto-reversible with the correct load connected;
- Over temperature protection: the driver is protected against temporary overheating by shutting down until the overheating eliminated; Auto-reversible when temperature back to normal;
- The functional earth wire should be connected to the heat sink of the LED module to improve the surge withstand capability of the system and EMI in critical luminaires.
- The startup time to reach the set output current is less than 2s.
- For further details please consult the application note;
- The external flexible cable or cord of this driver cannot be replaced; if the cord is damaged, the driver shall be destroyed.
- Terminal block not included. Installation must be performed by a qualified person.
- The device has reinforced isolation between its primary, dimming and output circuits.
- These LED drivers do not suitable use for portable luminaires.

## Download Data

File		
Certificates	PDF	▶ IT DALI P5 ENEC 260623
Mandatory Publications	PDF	▶ IT DALI P5 CE 4253474 07 060125
User instruction	PDF	▶ UI IT DALI 15 25 40 P5 CEDIM

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172174237	IT DALI 25/220-240/700 P5 CE	Shipping carton box 30 Pieces	363 x 323 x 248 mm	29.08 dm <sup>3</sup>	437.50 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

## Accessories Optional

Product description	Accessory name	Accessory code
IT DALI 25/220-240/700 P5 CE	DALI magic	▶ 6977078996907
IT DALI 25/220-240/700 P5 CE	DALI magic	▶ 4008321582768
IT DALI 25/220-240/700 P5 CE	DALI magic	▶ 6977078997416

## Disclaimer

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