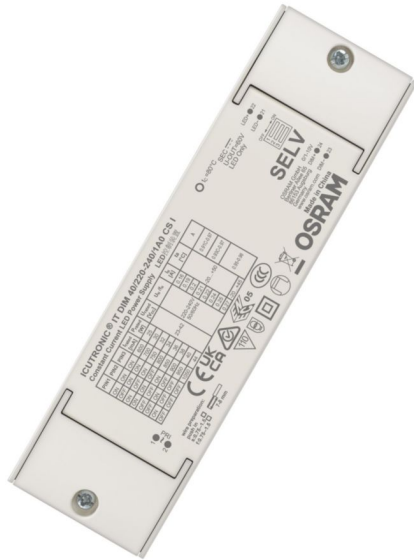


## IT DIM 40/220-240/1A0 CS I (NEW)

ICUTRONIC DIM CS I (0-10V) | Compact constant current LED driver – Dimmable

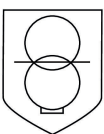


### Product family features

- Dimmable via 0-10V interface
- Cable clamp housing for independent mounting
- Flexible current setting (DIPswitch – 8 currents)

### Product family benefits

- 1-100% dimming
- Dim to off
- Compact housing for mounting in very tight spaces
- Flicker-free dimming
- Higher quality of light thanks to < 3% output ripple current



## Areas of application

- Decorative illumination
- Downlights, flat luminaires
- Hospitality
- Living areas
- Museums, residential buildings
- Offices
- Shop lighting
- Suitable for indoor SELV installations
- Suitable for luminaires of protection class I and II

## Technical data

### Electrical data

Max. ECG no. on circuit breaker 10 A (B)	26
Max. ECG no. on circuit breaker 16 A (B)	41
Maximum output power	44.1 W <sup>1)</sup>
Nominal output current	600 mA / 700 mA / 750 mA / 800 mA / 850 mA / 900 mA / 950 mA / 1050 mA <sup>2)</sup>
Nominal output power	13.8...44.1 W
Nominal output voltage	23...42 V <sup>3)</sup>
Nominal input voltage	220...240 V
Input voltage AC	198...264 V <sup>4)</sup>
Input voltage DC	not relevant
Device power loss	5.8 W <sup>5)</sup>
Efficiency in full-load	87 % <sup>6)</sup>
Galvanic isolation dimming/mains	Double
Galvanic isolation dimming/output	Basic
Galvanic isolation primary/secondary	SELV
Inrush current	32 A <sup>7)</sup>
Networked standby power	<0.50 W
Power factor $\lambda$	0.91C...0.98 <sup>8)</sup>
Mains frequency	50/60 Hz
Surge capability (L-N)	1 kV
Surge capability (L/N-Ground)	2 kV
U-OUT (working voltage)	60 V
Output current tolerance	±5 %
Output ripple current (100 Hz)	< 3 % <sup>9)</sup>
Protective conductor current	<0.7 mA
Total harmonic distortion	< 10 % <sup>10)</sup>
Default output current	1050 mA

1) Partial load 13.8...44.1 W

2) ±5%

3) Maximum 60 V

4) Permitted voltage range

5) Maximum

6) at 230 V, 50 Hz

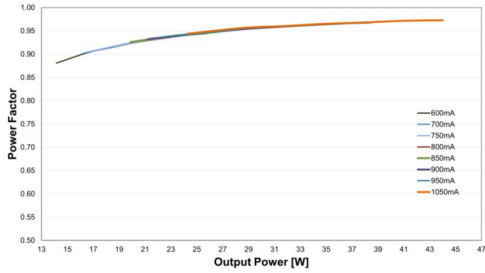
7)  $t_{\text{width}} = 1.4 \mu\text{s}$  (measured at 50 %  $I_{\text{peak}}$ )

8) Full load at 230 V / Minimum load at 230 V

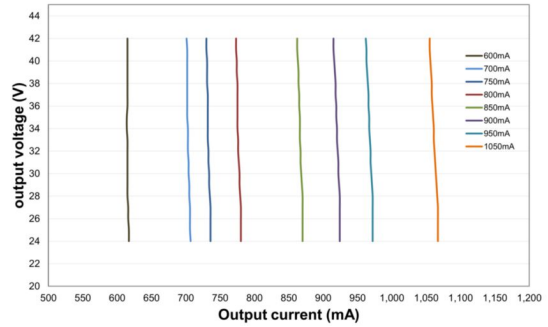
9) Ripple / average @ 100 Hz

10) Full load, 230V, 50 Hz

## Typical Power Factor v Load



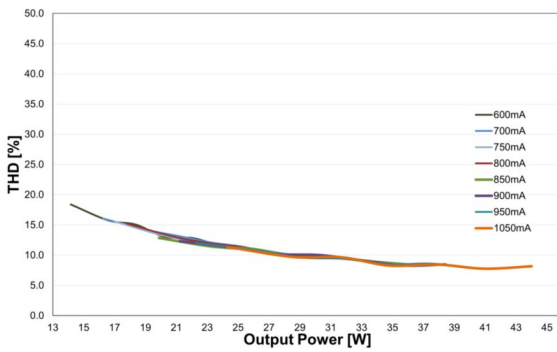
## Operating Window



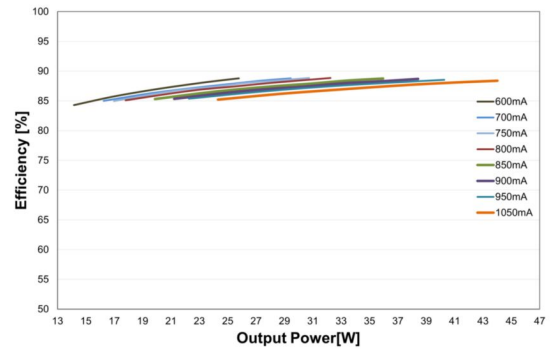
IT DIM 40 CS | Typical Power Factor vs. Load

IT DIM 40 CS | Operating window

## Typical THD v Load



## Typical Efficiency v Load 230 V 50 Hz



IT DIM 40 CS | Typical THD Vs Load

IT DIM 40 CS | Typical Efficiency vs. Load

## Dimensions & weight



<b>Product weight</b>	137.50 g
<b>Length</b>	150.0 mm
<b>Height</b>	28.0 mm
<b>Width</b>	43.0 mm
<b>Cable cross-section, input side</b>	0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Cable cross-section, output side</b>	0.75...1.5 mm <sup>2</sup> <sup>1)</sup>
<b>Mounting hole spacing, length</b>	136.0 mm
<b>Mounting hole spacing, width</b>	27.5 mm
<b>Wire preparation length, input side</b>	7...8 mm
<b>Wire preparation length, output side</b>	7...8 mm

1) Flexible / Solid leads

## Colors & materials

<b>Casing material</b>	Plastic
<b>Product color</b>	White

## Temperatures & operating conditions

<b>Ambient temperature range</b>	-20...+50 / -20...+45 °C
<b>Max.housing temperature in case of fault</b>	110 °C
<b>Maximum temperature at tc test point</b>	80 °C <sup>1)</sup>
<b>Permitted rel. humidity during operation</b>	5...85 % <sup>2)</sup>
<b>Temperature range at storage</b>	-40...+85 °C

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

## Lifespan

<b>ECG lifetime</b>	50000 h <sup>1)</sup>
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1) At maximum  $T_c = 80^\circ\text{C}$  / 10% failure rate

## Additional product data

<b>Encapsulated</b>	No
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## Capabilities

<b>Max. cable length to lamp/LED module</b>	2.0 m <sup>1)</sup>
<b>Number of channels</b>	1
<b>Dimmable</b>	Yes
<b>Dimming interface</b>	0-10V
<b>Dimming method</b>	Amplitude Modulation
<b>Dimming range</b>	1...100 %
<b>Overload protection</b>	Automatic reversible
<b>Overheating protection</b>	Automatic reversible
<b>Short-circuit protection</b>	Automatic reversible
<b>Suitable for through-wiring</b>	No
<b>Suitable for emergency lighting</b>	No
<b>Suitable for fixtures with prot. class</b>	I / II
<b>Type of connection, input side</b>	Push terminal
<b>Type of connection, output side</b>	Push terminal
<b>Constant lumen function</b>	No
<b>No-load proof</b>	Yes
<b>Programming interface</b>	Dipswitch

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

## Certificates & standards

Type of protection	IP20
Standards	Acc. to IEC 61347-1 / Acc. to IEC 61347-2-3 / Acc. to IEC 62384 / Acc. to IEC 61000-3-2 / Acc. to IEC 61547 / Acc. to IEC 61000-3-3
Approval marks – approval	CE / UKCA / CCC / RCM / ENEC

## 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	16-09-2024
Primary Article Identifier	4062172321426
Declaration No. in SCIP database	In work
SCIP_STATUS	In work
SCIP_ID	

## 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.



## Download Data

File		
Certificates	PDF	▶IT DIM CS I ENEC 35 126718 02 221023
Certificates	PDF	▶IT DIM 40 CCC 2022171002004777 270324
Certificates	PDF	▶IT DIM 20 40 CS I Safety cert. 130123
Certificates	PDF	▶IT DIM CS I NSW 28523 4 240123
CAD data 3-dim	Compressed	▶IT DIM 20 40 CS I CAD3PDF 110724
CAD data	Compressed	▶IT DIM 20 40 CS I STEP 110724
Mandatory Publications	PDF	▶IT DIM CS I CE 4453914 02 120724
Mandatory Publications	PDF	▶IT DIM CS I UK DoC 4453916 02 120724
User instruction	PDF	▶UI IT DIM CS I

## Logistical Data

Product code	Product description	Packaging unit (Pieces/Unit)	Dimensions (length x width x height)	Volume	Gross weight
4062172321426	IT DIM 40/220-240/1A0 CS I	Shipping carton box 20 Pieces	225 x 170 x 139 mm	5.32 dm <sup>3</sup>	260.00 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.