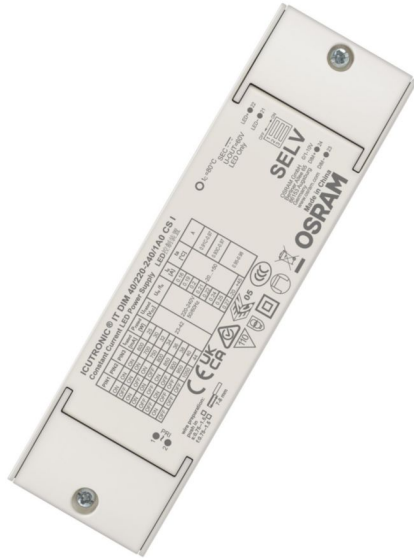


The trusted value of OSRAM Digital Systems continues with Inventronics Global – where experience meets innovation.

IT DIM 40/220-240/1A0 CS I

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



Specifications are subject to changes without notice.

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support@inventronicsglobal.com

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

| | |
|------------------------------------------|--------------------------------------------------------------------------------------|
| Nominal input voltage | 220...240 V |
| Mains frequency | 50/60 Hz |
| Input voltage AC | 198...264 V ¹⁾ |
| Input voltage DC | not relevant |
| Nominal input current at 230 V | 0.27 A |
| Total harmonic distortion | < 10 % ²⁾ |
| Power factor λ | 0.91C...0.98 ³⁾ |
| Efficiency in full-load | 87 % ⁴⁾ |
| Device power loss | 5.8 W ⁵⁾ |
| Networked standby power | <0.50 W |
| Inrush current | 32 A ⁶⁾ |
| Max. ECG no. on circuit breaker 10 A (B) | 26 |
| Max. ECG no. on circuit breaker 16 A (B) | 41 |
| Surge capability (L-N) | 1 kV |
| Surge capability (L/N-Ground) | 2 kV |
| Protective conductor current | <0.7 mA |
| Nominal output voltage | 23...42 V ⁷⁾ |
| U-OUT (working voltage) | 60 V |
| Nominal output current | 600 mA / 700 mA / 750 mA / 800 mA / 850 mA / 900 mA / 950 mA / 1050 mA ⁸⁾ |
| Default output current | 1050 mA |
| Output current tolerance | ±5 % |
| Output ripple current (100 Hz) | < 3 % ⁹⁾ |
| Output PSTLM | ≤1 |
| Output SVM | ≤0.4 |
| Nominal output power | 13.8...44.1 W |
| Maximum output power | 44.1 W ¹⁰⁾ |
| Galvanic isolation primary/secondary | SELV |
| Galvanic isolation dimming/mains | Double |
| Galvanic isolation dimming/output | Basic |

1) Permitted voltage range

2) Full load, 230V, 50 Hz

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

4) at 230 V, 50 Hz

5) Maximum

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

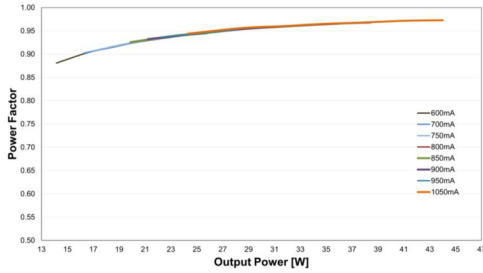
7) Maximum 60 V

8) ±5%

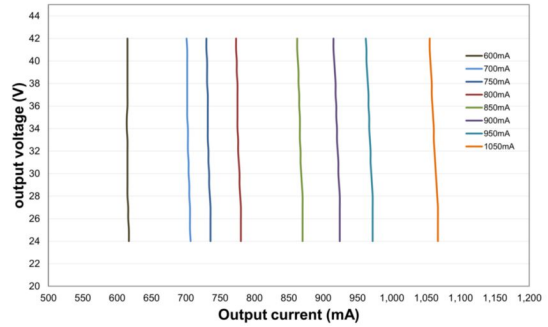
9) Ripple / average @ 100 Hz

10) Partial load 13.8...44.1 W

Typical Power Factor v Load

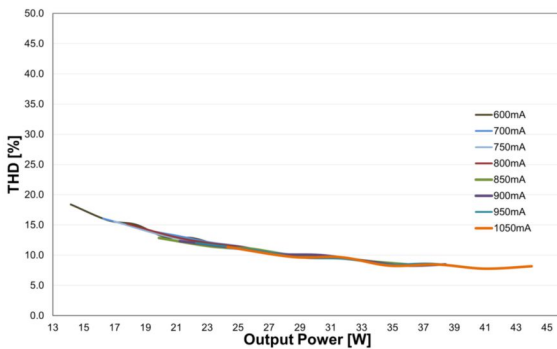


Operating Window



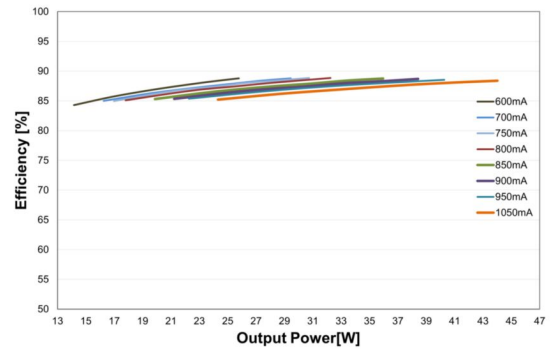
IT DIM 40 CS | Typical Power Factor vs. Load

Typical THD v Load



IT DIM 40 CS | Operating window

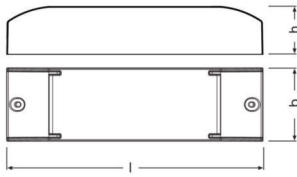
Typical Efficiency v Load 230 V 50 Hz



IT DIM 40 CS | Typical THD Vs Load

IT DIM 40 CS | Typical Efficiency vs. Load

Dimensions & weight



| | |
|---------------------------------------------|-------------------------------|
| Product weight | 137.50 g |
| Length | 150.0 mm |
| Width | 43.0 mm |
| Height | 28.0 mm |
| Mounting hole spacing, length | 136.0 mm |
| Mounting hole spacing, width | 27.5 mm |
| Cable cross-section, input side | 0.75...1.5 mm ² 1) |
| Cable cross-section, output side | 0.75...1.5 mm ² 1) |
| Wire preparation length, input side | 7...8 mm |
| Wire preparation length, output side | 7...8 mm |
| Cable/wire length, output side | 2000 mm |

1) Flexible / Solid leads

Colors & materials

| | |
|------------------------|---------|
| Casing material | Plastic |
| Product color | White |

Temperatures & operating conditions

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

1) Maximum at the Tc-point

2) Maximum 56 days/year at 85 %

Lifespan

| | |
|---------------------|-----------------------|
| ECG lifetime | 50000 h ¹⁾ |
|---------------------|-----------------------|

1) At maximum $T_c = 80^\circ\text{C}$ / 10% failure rate

Additional product data

| | |
|---------------------|----|
| Encapsulated | No |
|---------------------|----|

Capabilities

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

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

Programming

| | |
|--------------------|-----------|
| Programming device | DIPswitch |
|--------------------|-----------|

Certificates & standards

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

Logistical data

| | |
|----------------|-------------|
| Commodity code | 85044083900 |
|----------------|-------------|

Environmental information

| Information according Art. 33 of EU Regulation (EC) 1907/2006 (REACH) | |
|-----------------------------------------------------------------------|---------------|
| Date of Declaration | 13-02-2025 |
| 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 03 100125 |
| 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 OSRAM | IT DIM 40/220-240/1A0 CS I | Shipping carton box 20 Pieces | 225 x 170 x 139 mm | 5.32 dm ³ | 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.