

iDRIVE®

CENTRALISE • OPTIMISE • ECONOMISE

MultiDIM

- Trailing Edge dimmer compatible
- Selectable currents between 175 and 2000mA
- Compact design housing for easy installation
- Threefold PSU protection
- CE 61347-2-13 & 62384:2006 approved



Product Overview

The market leading iDrive® LED driver range now offers the iDrive® MultiDIM™. The iDrive® range is optimised for use with all good quality high powered LED products such as Luxeon, Cree, Seoul, Nichia, Sharp, Citizen, Bridgelux and Osram.

The new iDrive® MultiDIM™ range offers the latest phase control (trailing edge) mains dimmable LED drivers in various wattage outputs between 11W and 41W. The iDrive® MultiDIM™ LED driver operates a single channel supplying a user selectable forward current between 175 and 2000mA (see table on page2)

With many different driver DC configurations, the MultiDIM™ enables each channel to contain a specific number of LEDs for maximum efficiency. The MultiDIM™ range offers threefold protection: short circuit; over voltage and open circuit.

The MultiDIM™ is ideal for all types of LED lighting products that need to operate with conventional mains dimming circuits including applications such as dichroic or halogen LED replacements and LED down lighters.

Approved Dimmers

Jung: 243EX

Niko: Dimmer 310-02700

Rako: RDT500 & RCP07 7 button controller

Helvar: Digidim 1000W 452 dimmer**

Lutron: GRX3000 - Grafik eye 3000 series**

GXI3000 - Grafik eye 3104 series**

Rania - FET based dimmer**

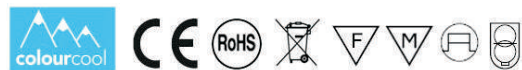
(** Please contact IST for further details on these dimmers)

Standards

EN 61347-2-13, EN 55015:2006

EN 61000-3-2, EN 61547,

EN 61047, EN 62384:2006



Electrical Specifications

Approval

CE, EMC, FCC Class B

Input

Input Voltage Range: 110V AC, 230V AC, 277V AC

Input Frequency: 50Hz / 60Hz

Consumption: See table page 2

Power Factor: >0.9 @ Full load

Efficiency: 82-87% max at full load

Connection: Mains AC loop-in loop-out, 5-pin terminal block

Insulation Class: 1

Stand-by Power: <1W

Current Regulation: <5% current tolerance <10% on all outputs

Leakage Current: <0.7mA

Output options

See page 2

Control Input

Dimming control: Auto detection of Trailing Edge Dimmer

Dimming Range: <10% to 100% of output load current

Mechanical

Mounting: Two 5mm fixing holes

Construction: ABS Housing at IP20

Environmental

Operating Ambient Temperature: -20°C to + 50°C

Storage Ambient Temperature: -10°C to + 70°C

Relative Humidity: 80% MAX

Lifetime (failure after 50,000 hours): 5%

Lifetime (failures after 50,000 hours): 5%

Protection

Over Load Protection

Short Circuit Protection

Open Circuit Protection

Dimensions:

150.1 x 50.7 x 31mm (max.)

Weight:

180-220 grams

MAINS DIMMABLE UP TO 41W LED DRIVER

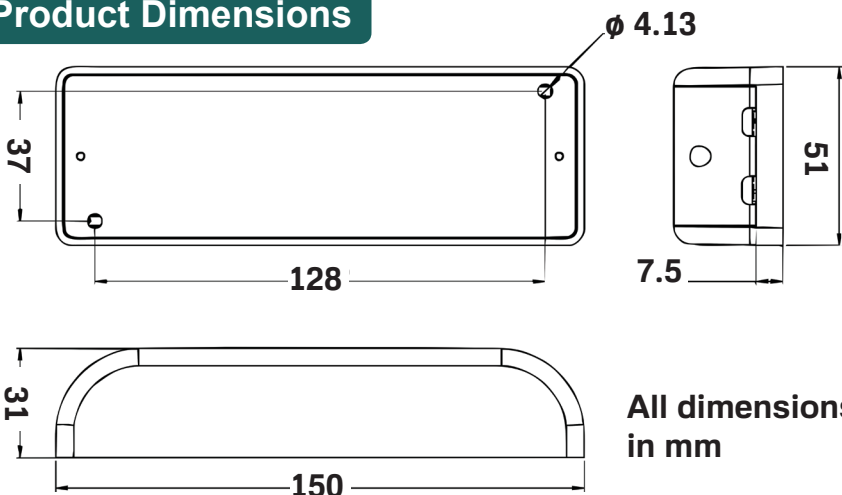
MultiDIM

Part Numbers

X in model number = AC Input, Options: 1 = 110V AC 2 = 230V AC 3 = 277V AC

| IST Part No. | Power In (W) | V out (max) | Power Out (W) | Current | Inrush Current (A) |
|--------------|--------------|-------------|---------------|-------------------------|--------------------|
| IDM00620X | 5-9 | 11-20 | 3-6 | 0.25/0.275/0.300 | +0.7 -2.0 |
| IDM00722X | 6-10 | 15-22 | 5-8 | 0.35 | +1.8 -1.8 |
| IDM01014X | 4-13 | 9-14 | 3-10 | 0.35/0.50/0.70 | +1.4 -1.8 |
| IDM01028X | 6-13 | 14-28 | 5-10 | 0.35 | +1.6 -1.7 |
| IDM01115X | 4-12 | 9-15 | 3-11 | 0.35/0.50/0.70 | +1.4 -1.8 |
| IDM01122X | 9-14 | 15-22 | 7-11 | 0.50 | +1.5 -1.7 |
| IDM01248X | 8-13 | 42-48 | 7-12 | 0.175/0.200/0.225/0.250 | +1.2 -1.8 |
| IDM01319X | 5-16 | 12-19 | 4-13 | 0.35/0.50/0.7 | +1.1 -1.6 |
| IDM01412X | 6-16 | 9-12 | 5-14 | 0.60/0.80/1.00/1.20 | +3.4 -3.2 |
| IDM01515X | 4-17 | 9-15 | 3-15 | 0.35/0.50/0.70/1.00 | +1.0 -1.8 |
| IDM01529X | 6-17 | 15-29 | 5-15 | 0.35/0.50 | +1.5 -2.0 |
| IDM01622X | 13-18 | 16-22 | 12-16 | 0.72 | +1.7 -1.9 |
| IDM01954X | 13-23 | 30-54 | 11-19 | 0.35 | +1.8 -2.0 |
| IDM02029X | 6-23 | 15-29 | 5-20 | 0.35/0.50/0.70 | +2.4 -2.6 |
| IDM02423X | 5-27 | 11-23 | 4-23 | 0.35/0.50/0.70/1.05 | +2.4 -2.6 |
| IDM02439X | 10-33 | 12-39 | 8-28 | 0.70 | +2.7 -3.1 |
| IDM02636X | 11-31 | 27-36 | 9-26 | 0.35/0.50/0.70 | +2.4 -2.4 |
| IDM02727X | 6-30 | 15-27 | 5-27 | 0.35/0.50/0.70/1.00 | +1.8 -1.9 |
| IDM02739X | 12-30 | 30-39 | 11-27 | 0.35/0.50/0.70 | +2.8 -2.9 |
| IDM02754X | 12-33 | 30-54 | 11-27 | 0.35/0.50 | +3.1 -3.6 |
| IDM02839X | 23-54 | 30-39 | 21-27 | 0.70 | +2.8 -2.8 |
| IDM02918X | 14-32 | 9-18 | 13-29 | 1.40/1.60 | +2.7 -2.6 |
| IDM03218X | 12-36 | 9-18 | 11-32 | 1.20/1.40/1.60/1.80 | +3.8 -3.7 |
| IDM03230X | 7-37 | 16-30 | 6-32 | 0.35/0.50/0.70/1.05 | TBA |
| IDM03440X | 20-40 | 20-40 | 16-34 | 0.84 | +2.7 -2.6 |
| IDM03636X | 25-43 | 21-36 | 21-36 | 1.00 | +2.5 -2.5 |
| IDM03854X | 12-42 | 30-54 | 11-38 | 0.35/0.50/0.70 | +2.7 -3.1 |
| IDM03939X | 13-45 | 25-39 | 9-39 | 0.35/0.50/0.70/1.00 | +1.6 -1.7 |
| IDM04018X | 25-49 | 10-18 | 20-40 | 2.00/2.10/2.20 | +3.7 -4.4 |
| IDM04020X | 15-49 | 12-20 | 12-40 | 1.00/1.25/1.50/2.00 | +2.8 -3.1 |
| IDM04124X | 30-50 | 16-24 | 27-41 | 1.70 | TBA |
| IDM04146X | 24-49 | 25-46 | 22-41 | 0.90 | +2.1 -2.3 |
| IDM40114X | 32-42 | 88-114 | 31-40 | 0.35 | +2.2 -2.6 |

Product Dimensions



All dimensions in mm



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