

# 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\*\*

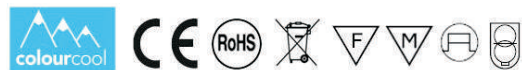
(\*\* Please contact IST for further details on these dimmers)

### 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

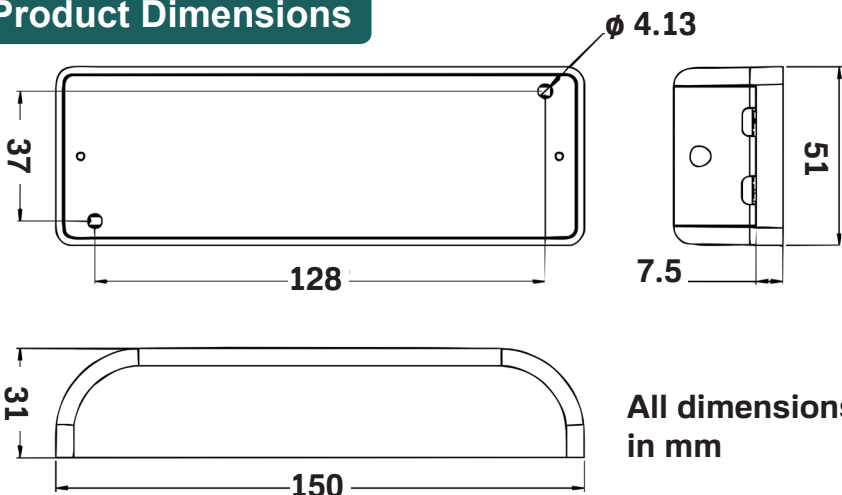
## MultiDIM

### 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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