

- 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 downlighters.

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**

Standards

EN 61347-2-13, EN 55015:2006
 EN 61000-3-2, EN 61547,
 EN 61047, EN 62384:2006

Approval

CE, EMC, FCC Class B

** Please contact IST for further details on these dimmers

Electrical Specifications

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:

151 x 50.5 x 31 mm approx

Weight:

180-220 grams

Model	Pi (VDC)	Vo (VDC)	Po (W)	Current Options (A)	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	0.35/0.50/0.75/1.00	+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
IDM02323X	5-27	11-23	4-23	0.35/0.50/0.70/1.00	+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
IDM03042X	13-36	34-42	12-30	0.35/0.50/0.70	+2.8 -2.6
IDM03218X	12-36	9-18	11-32	1.20/1.40/1.60/1.80	+3.8 -3.7
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	30-39	11-39	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

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

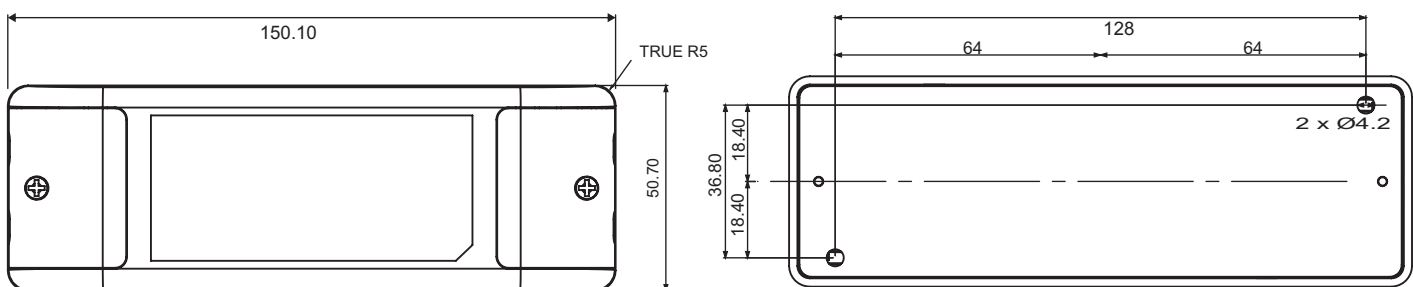
Applications

Indoor, Spot, Decorative and downlight applications:

- Dining
- Shops
- Office
- Architectural
- Reading
- Restaurants
- Kitchen
- Bathroom
- Living
- Museum



Dimensions



iDrive[®] products are covered by IST's worldwide patent portfolio. For more information please refer to www.istl.com/patents.

www.istl.com

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