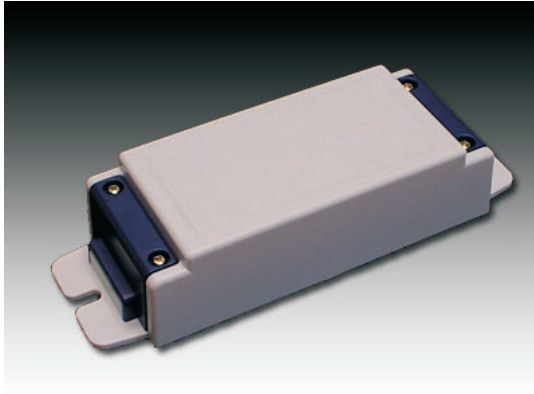


## MAINS DIMMABLE 11 - 40W LED DRIVER



### Main Features

- Leading and Trailing Edge dimmer compatible
- Selectable currents between 175 to 1200mA
- 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 optimized for use with all good quality high powered LED products such as LUXEON, Cree, Seoul, Nichia and OSRAM.



The new iDrive MultiDIM™ range offers the latest phase control (trailing and leading edge) mains dimmable LED drivers in various wattage outputs between 11W and 40W. The iDrive MultiDIM™ LED driver operates a single channel supplying a user selectable forward current between 175 to 1200mA (see product table page 3).



With many different driver DC voltage 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\*\*  
GX13000 - Grafik eye 3104 series\*\*  
Rania - FET based dimmer\*\*

#### Standards

EN 61347-2-13, EN55015:2006,  
EN 61000-3-2, EN 61547,  
EN 61047, EN 62384:2006

#### Approval

CE, EMC, FCC Class B

### Electrical Specifications

#### Input

Input Voltage Range: 110V AC, 230V AC, 277V AC  
Input Frequency: 50Hz / 60Hz  
Consumption: See table page 3  
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

#### Output options

See page 3

#### Control Input

Dimming control: Auto detection of either Trailing or Leading Edge Dimmer  
Dimming Range: <10% to 100% of output load current

#### Mechanical

Mounting: Two 5mm fixing holes  
Construction: ABS Housing at IP 20 or IP64

#### 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 grams

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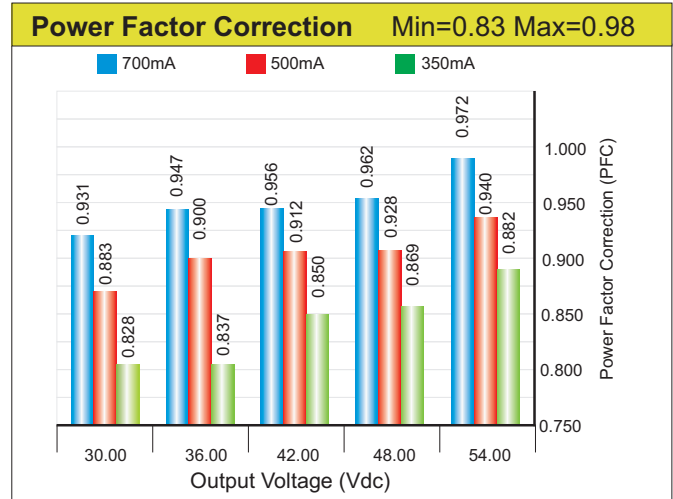
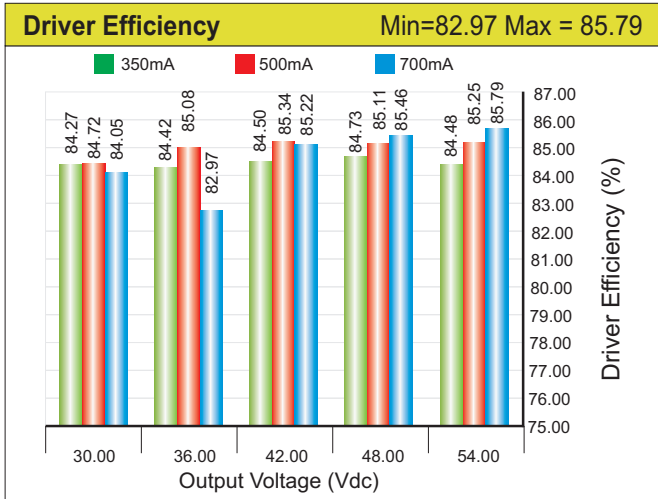
\* 1000mA option available only on certain models  
\*\* Please contact IST for further details on these dimmers



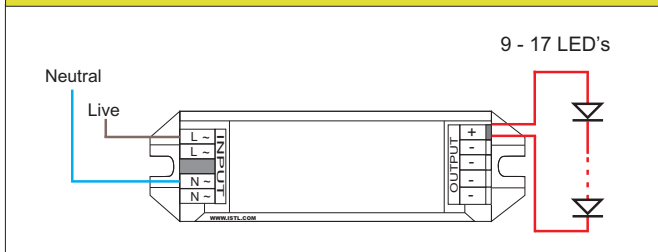
## MAINS DIMMABLE 11 - 40W LED DRIVER

### Typical iDrive MultiDIM Performance

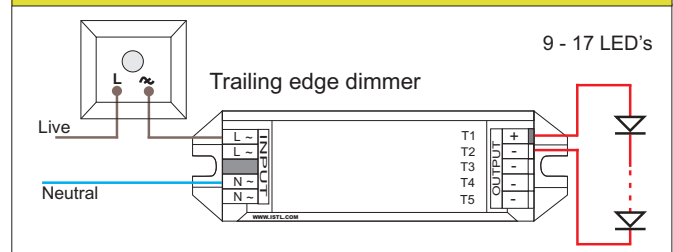
Results for model: IDM038541



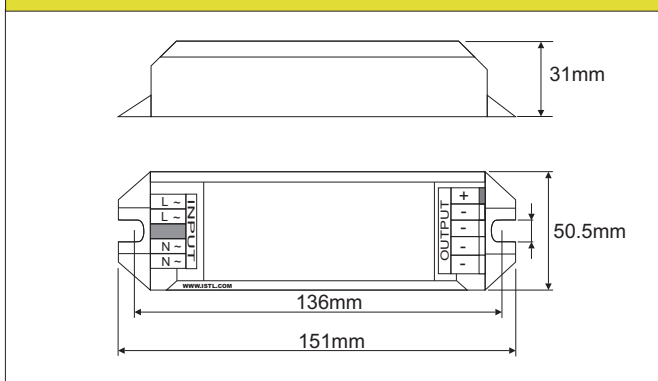
### Wiring Diagram without Dimmer Switch for MultiDIM



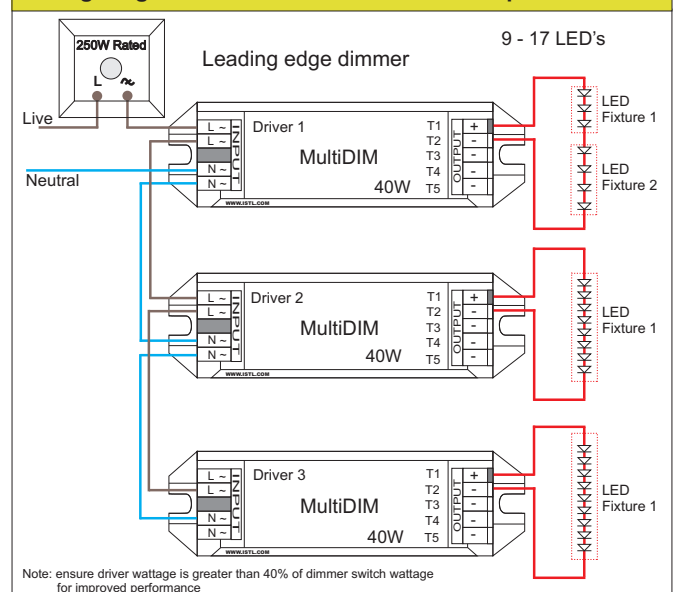
### Wiring Diagram with Dimmer Switch for MultiDIM



### Dimensions

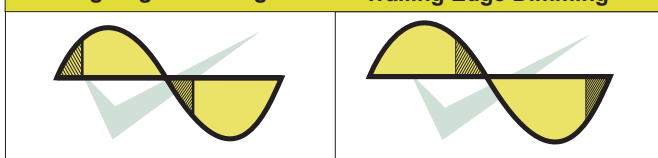


### Wiring Diagram with Dimmer Switch for Multiple Drivers



### Leading Edge Dimming

### Trailing Edge Dimming



### Applications

Indoor, Spot, Decorative and downlight applications:

Dining	Shops	Office	Architectural
Reading	Restaurants	Kitchen	Bathroom
Living	Museum		

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Preliminary Data V2.0

## MAINS DIMMABLE 11 - 40W LED DRIVER

### iDrive MultiDIM Range

Model Selection Table

Model	Uin (AC)	Frequency	PFC	Pout (W)	Vout (DC)	Iout* (mA) T2/T3/T4/T5	Pin (W)	Ta	Tc
IDM011151	110V	50/60 Hz	0.95 max	3...11	9 ~ 15	350/500/700	4...13	50	80
IDM011152	230V	50/60 Hz	0.95 max	3...11	9 ~ 15	350/500/700	4...13	50	80
IDM011153	277V	50/60 Hz	0.95 max	3...11	9 ~ 15	350/500/700	4...13	50	80
IDM012481	110V	50/60 Hz	0.95 max	7...12	42 ~ 48	175/200/225/250	8...14	50	80
IDM012482	230V	50/60 Hz	0.95 max	7...12	42 ~ 48	175/200/225/250	8...14	50	80
IDM012483	277V	50/60 Hz	0.95 max	7...12	42 ~ 48	175/200/225/250	8...14	50	80
IDM014121	110V	50/60 Hz	0.95 max	5...14	9 ~ 12	600/800/1000/1200	6...17	50	80
IDM014122	230V	50/60 Hz	0.95 max	5...14	9 ~ 12	600/800/1000/1200	6...17	50	80
IDM014123	277V	50/60 Hz	0.95 max	5...14	9 ~ 12	600/800/1000/1200	6...17	50	80
IDM015151	110V	50/60 Hz	0.95 max	3...15	9 ~ 15	350/500/700/1000	4...18	50	80
IDM015152	230V	50/60 Hz	0.95 max	3...15	9 ~ 15	350/500/700/1000	4...18	50	80
IDM015153	277V	50/60 Hz	0.95 max	3...15	9 ~ 15	350/500/700/1000	4...18	50	80
IDM016221	110V	50/60 Hz	0.95 max	12...16	16 ~ 22	720	13...19	50	80
IDM016222	230V	50/60 Hz	0.95 max	12...16	16 ~ 22	720	13...19	50	80
IDM016223	277V	50/60 Hz	0.95 max	12...16	16 ~ 22	720	13...19	50	80
IDM020291	110V	50/60 Hz	0.95 max	5...20	15 ~ 29	350/500/700	6...24	50	80
IDM020292	230V	50/60 Hz	0.95 max	5...20	15 ~ 29	350/500/700	6...24	50	80
IDM020293	277V	50/60 Hz	0.95 max	5...20	15 ~ 29	350/500/700	6...24	50	80
IDM027271	110V	50/60 Hz	0.95 max	5...27	15 ~ 27	350/500/700/1000	6...32	50	80
IDM027272	230V	50/60 Hz	0.95 max	5...27	15 ~ 27	350/500/700/1000	6...32	50	80
IDM027273	277V	50/60 Hz	0.95 max	5...27	15 ~ 27	350/500/700/1000	6...32	50	80
IDM027391	110V	50/60 Hz	0.95 max	11...27	30 ~ 39	350/500/700	12...32	50	80
IDM027392	230V	50/60 Hz	0.95 max	11...27	30 ~ 39	350/500/700	12...32	50	80
IDM027393	277V	50/60 Hz	0.95 max	11...27	30 ~ 39	350/500/700	12...32	50	80
IDM038541	110V	50/60 Hz	0.95 max	11...38	30 ~ 54	350/500/700	12...45	50	80
IDM038542	230V	50/60 Hz	0.95 max	11...38	30 ~ 54	350/500/700	12...45	50	80
IDM038543	277V	50/60 Hz	0.95 max	11...38	30 ~ 54	350/500/700	12...45	50	80
IDM401142	230V	50/60 Hz	0.95 max	28...40	80 ~ 114	350	30...50	50	80

\* Terminal 1 (T1) is the positive for the LED fixture and Terminal 2 to 5 (T2 to T5) is the negative for the LED fixture depending on the output current required.