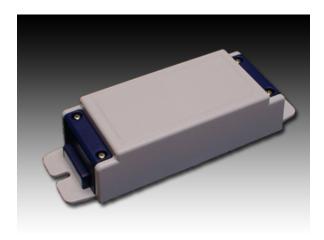


# MultiDIM<sup>™</sup>-HC

## MAINS DIMMABLE 29 - 40W LED DRIVER



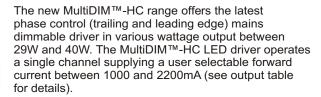
## **Main Features**

- Leading and Trailing Edge dimmer compatible
- Selectable currents between 1A and 2.2A
- Compact design housing for easy installation
- Threefold PSU protection
- CE 61347-2-13 and 62384:2006 Approved
- Designed for high power LED Arrays



## **Product Overview**

The market leading iDrive™ LED driver range now includes the iDrive™ MultiDIM™-HC. The MultiDIM™-HC driver is the first mains dimmable driver designed to work specifically with high power LED array technology, such as BRIDGELUX, ENFIS and Edison Opto.



The driver enables a single LED array with a forward voltage between 8V-18V, 10V-18V and 12V-20V to be operated at various forward current options for maximum system flexibility.

The MultiDIM™-HC is built for resilience and offers threefold protection: Short circuit, overvoltage and open-circuit.

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

#### **Protection**

Overload Protection Short-Circuit Protection Open-Circuit Protection

#### **Standards**

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

### **Approval**

CE, FCC Class B

# **Electrical Specifications**

#### Inpu

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

Input Frequency: 50Hz, 60Hz Consumption: See table below Power Factor: >0.9 @ Full load Efficiency: 75-85% Max

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

Insulation Class: 1 Stand-by Power: <1W

#### **Output**

Model Selection Table				
Model	Input (ac)	Output V	Output A	Output W max
IDM029181	100 - 120V	8 - 18V	1.4 / 1.6	29W
IDM029182	200 - 240V	8 - 18V	1.4 / 1.6	29W
IDM029183	277V	8 - 18V	1.4 / 1.6	29W
IDM032181	100 - 120V	8 - 18V	1.2 / 1.4 / 1.6 / 1.8	32W
IDM032182	200 - 240V	8 - 18V	1.2 / 1.4 / 1.6 / 1.8	32W
IDM032183	277V	8 - 18V	1.2 / 1.4 / 1.6 / 1.8	32W
IDM040181	100 - 120V	10 - 18V	2.0/2.1/2.2	40W
IDM040182	200 - 240V	10 - 18V	2.0/2.1/2.2	40W
IDM040183	277V	10 - 18V	2.0/2.1/2.2	40W
IDM040201	100 - 120V	12 - 20V	1.0/1.25/1.5/2.0	40W
IDM040202	200 - 240V	12 - 20V	1.0/1.25/1.5/2.0	40W
IDM040203	277V	12 - 20V	1.0/1.25/1.5/2.0	40W

Current Regulation: <5%

Current Tolerance: <10% on all outputs

#### **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 holes for fixing Construction: ABS Housing at IP 20 or IP64

#### **Environmental**

Operating Ambient Temperature: -20°C to + 50°C Storage Ambient Temperature: -20°C to + 70°C

Relative Humidity: 80% MAX

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

#### **Dimensions:**

151 x 50.5 x 31 mm approx

Weight: 180 grams















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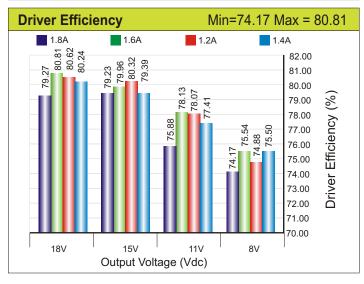


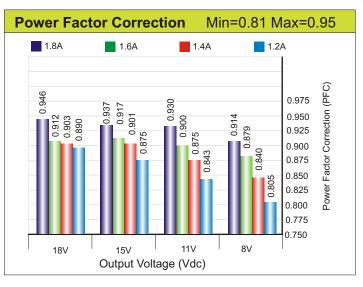
# MultiDIM-HC

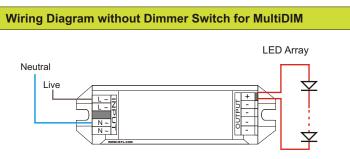
Results for model: IDM032181

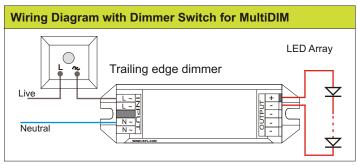
## MAINS DIMMABLE 29 - 40W LED DRIVER

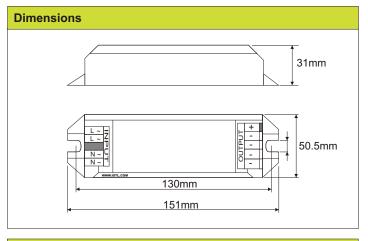
## Typical iDrive MultiDIM-HC Performance

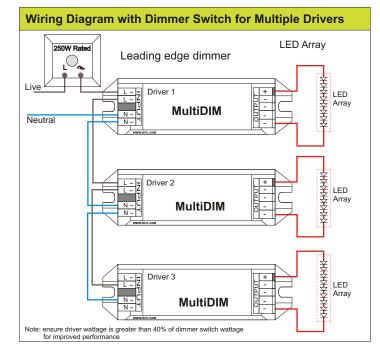














### **Applications**

Indoor, Outdoor, Spot, Decorative and downlight applications:

Dining Reading Living

Shops Restaurants

Office Kitchen Architectural Bathroom

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Preliminary Data V1.8