



20W VARIABLE MICRODRIVER



FEATURES / BENEFITS

- ▲ Universal input 110-240VAC
- ▲ Short and open circuit protected
- ▲ Fully isolated twin outputs
- ▲ Dimming by 1-10V or potentiometer
- ▲ Resetting thermal shutdown
- ▲ Rugged design with terminal cover & cable grip
- ▲ Over voltage protection
- ▲ Up to 1A output on single output operation

OPERATING CONDITIONS

- ▲ Operating ambient (Ta) -20°C to +50°C
- ▲ Max case temperature (Tc) 85°C
- ▲ Storage temperature -20°C to +60°C
- ▲ Dry location only IP20 rated

APPLICATION

- ▲ Cove & Cornice Lighting
- ▲ Display Cases
- ▲ Spot Lights / Signage
- ▲ Architectural lighting and display lighting
- ▲ Marker & Orientation Lights

DESCRIPTION

The 20W Variable Microdriver™ is an adjustable constant current driver which can supply two output channels. Adjustments are easily made using the single potentiometer located on front cover.

Single output operation (Output 1 Only) 250mA to 1A
 Dual output operation (Output 1 & Output 2) 250mA to 500mA per channel.

The driver is dimmable with 1-10V or potentiometer.

MECHANICAL DIMENSIONS

- ▲ Maximum case height 23.5mm (0.93 inches)
- ▲ Maximum case width 52mm (2.05 inches)
- ▲ Maximum case length 111mm (4.37 inches)

APPROVALS

Immunity	EN 61547
EMI / RFI	EN 55015 (Conducted) EN 61000-3-2 (Harmonics)
Performance	EN 62384
Safety	EN 61347-2-13

ORDERING INFORMATION

Part Number:-

MDU-18-V-25-100

Visit www.dialight.com for intall instructions.

Dialight reserves the right to make changes at any time in order to supply the best product possible.

ELECTRICAL SPECIFICATIONS

Input Voltage:	110/240VAC (90 to 264VAC)	Number of LEDS Output 1:	1 - 9*
Frequency:	50/60Hz (47 to 63Hz)	Number of LEDS Output 2:	1 - 9*
Power Factor:	> 0.90	Thermal Protection	YES (overheating)
Input Current:	See Efficiency Chart	Output Current Overshoot	NO
Output 1 Current:	250-1000mA	Short Circuit Protection	YES
Output 2 Current:	250-500mA	Open Circuit Protection	YES
		Over Voltage Protection	YES
		Output Isolation	YES
		RoHS Compliant	YES

*Based on a typical LED forward voltage of 3.2V

Maximum LED Load Per Channel				
	Output 1 & 2		Output 1 Only	
	@110V	@230V	@110V	@230V
250mA - 350mA	7	9	7	9
500mA - 700mA	-	-	7	9
700mA - 1A	-	-	4	6

Output power	20W at 240V 15W at 110V
Power Consumption:	26 VA (max)
Output voltage:	33VDC (max)
Dimming Operation	1-10V or Potentiometer

TERMINATION ACCESS



Easily Removable Cover



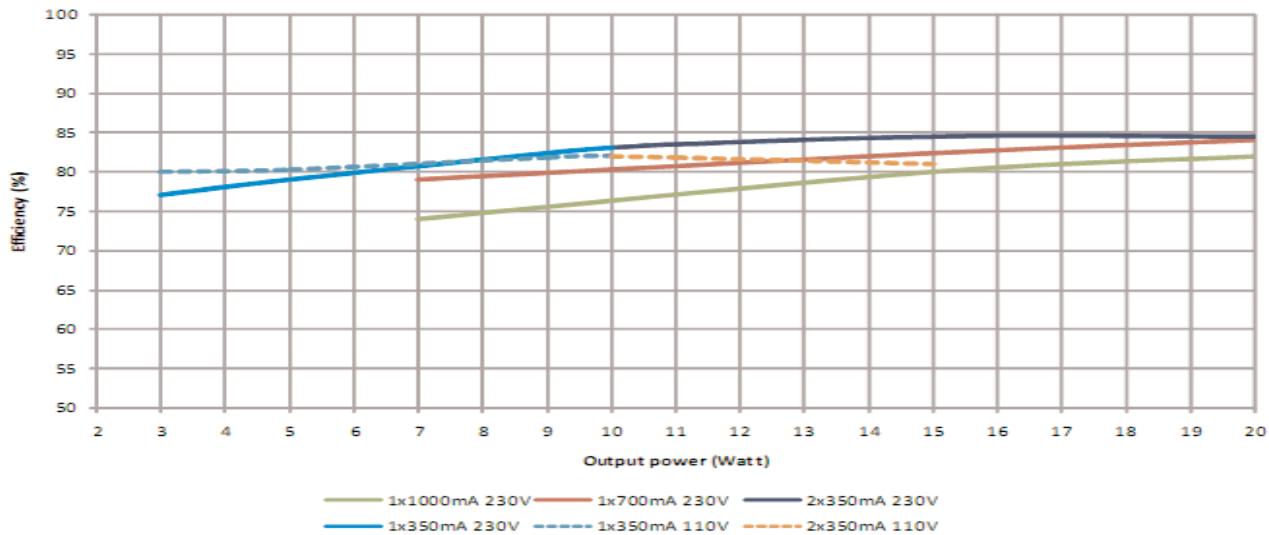
Input and Output Connections

Notes:

Note 1: Colour shift in LED output may occur at low dimming levels. Please check application suitability before specification.

Note 2: If multiple drivers (max. 50) need to be dimmed at the same time, parallel the dimming connections together and divide 100k by the number of drivers to find the correct potentiometer.

Efficiency



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The most current version of this document will always be available at:

www.dialight.com/Assets/Brochures_And_Catalogs/Illumination/MDEXU18V25100.pdf

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