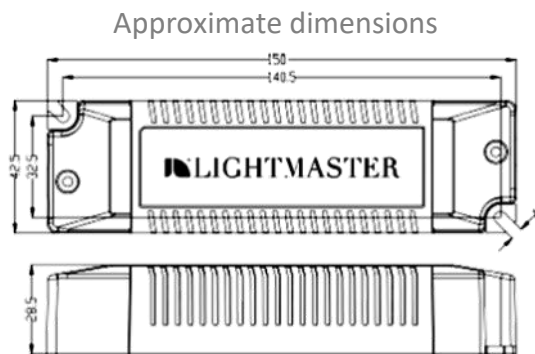


Standard Constant Current Driver, 20W Triac dimming

LMCH0121



from  **LIGHTMASTER**
PRODUCT

The Lightmaster LMCH0121 is a versatile electronic driver for LED loads of up to 20 watts. It can provide a constant current output between 350mA and 700mA, as set by internal switches. The unit will allow dimming by either leading (triac) or trailing edge (Electronic Low Voltage) dimmers from a range of manufacturers on standard mains AC voltages.

It's suitable for interior use only, unless enclosed in a suitably IP-rated enclosure for protection.

Product & Ordering information:

Order as:	Input	Output	Current & Power output options	I.P. Rating	Insulation	Mount
LMCH0121	220-240V AC 50-60Hz 0.12A Maximum	48V DC Maximum	350mA 14W 400mA 16W 450mA 18W 500mA 20W 550mA 19W 600mA 19W 650mA 19W 700mA 19W	20	Class 2	Surface
			A single output, as set by DIP switches.			



Show me more...

Further information, products and our design services can be found on our website at www.lightmaster-product.co.uk

Get in touch with LIGHTMASTER:

Lightmaster-Direct Ltd, Unit 17, Blackwell Business Park, Shipston-on-Stour, Warwickshire CV36 4PE
t: 01608 682115 f: 01608 682114 e: sales@lightmaster-direct.co.uk w: www.lightmaster-direct.co.uk



Standard Constant Current Driver, 20W Triac dimming

LMIH0121

Product Installation & Maintenance:

Safety

Power supplies should be isolated and confirmed de-energised before commencing.

Installation and repair should be performed by a suitably qualified person, with all work in accordance with applicable legislation and regulations.



Installation

The unit should be mounted on a normally non-flammable surface using the two mounting positions. It is not advisable to mount using adhesive products or tapes. Locate indoors or in a suitably IP rated enclosure if used in harsh environments or outdoors.

1

Electrical Connection

The LED lighting load should be connected, taking care to observe polarity throughout the circuit, to the output terminals marked + & - (referring to positive & negative respectively) on the output side.

2

The load can consist of multiple LEDs of the same current rating and wired in series. If your luminaire requires constant voltage, such as LED tape, please contact our UK sales team on 01608 682115 for an alternative driver.

The output current must be selected to suit the LED load before powering. Push the DIP switches on the output side towards 'ON' as shown in the chart.

Current	DIP-1	DIP-2	DIP-3
350mA	OFF	OFF	OFF
400mA	ON	OFF	OFF
450mA	OFF	ON	OFF
500mA	ON	ON	OFF
550mA	OFF	OFF	ON
600mA	ON	OFF	ON
650mA	OFF	ON	ON
700mA	ON	ON	ON

A switched AC supply (with or without dimmer) can then be connected to the terminals marked L & N (referring to Line & Neutral) on the input side. Refit both covers with fitting screws.

Please note that the cord grips are designed for round section flexible cables to BS EN 50525.

Ongoing care, Cleaning & Maintenance

3

Clean your Lightmaster product by hand by dusting or wiping with a dry cloth. Do not use abrasives, liquids or chemical cleaners.

Replacement drivers are available directly from us, to discuss your requirements with our sales team, please contact us on the details below

The end user should retain this manual for future reference.

Supply and warranty of products is subject to our Terms & Conditions, a copy of which is available on request.



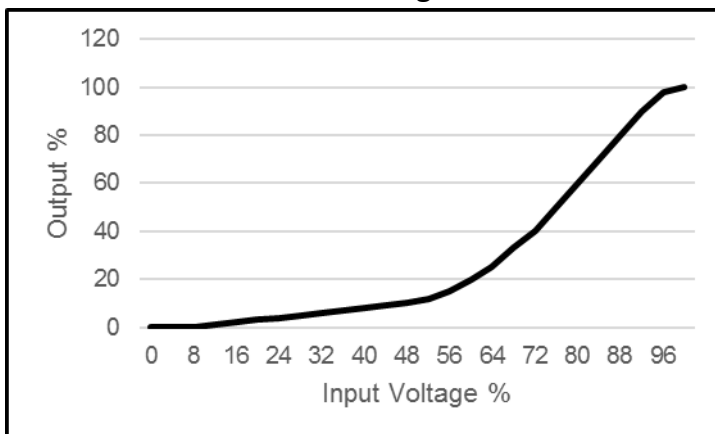
Standard Constant Current Driver, 20W Triac dimming

LMIH0121

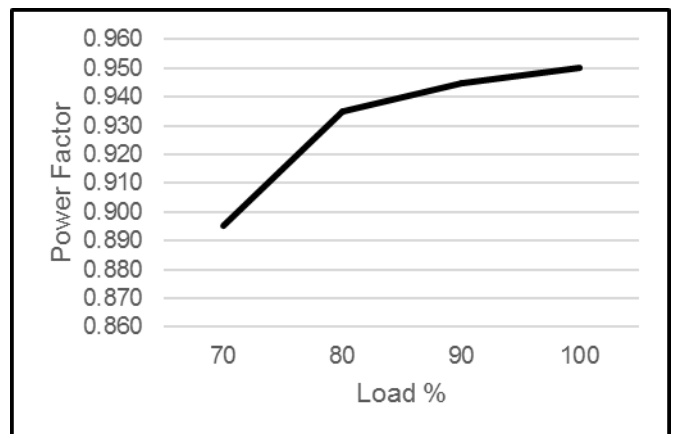
Technical Information

Output	Current	350mA	400mA	450mA	500mA	550mA	600mA	650mA	700mA	
	Voltage	9-40VDC	9-40VDC	9-40VDC	9-40VDC	9-36VDC	9-33VDC	9-30VDC	9-28VDC	
	Power	14W	16W	18W	20W	19.8W	19.8W	19.5W	19.6W	
	Current Accuracy	±5%								
	No Load Output Voltage	48VDC Max								
	Output LF current ripple(< 120 Hz)	<3%								
	Channels	1								
Input	Voltage	220-240VAC								
	Frequency	50/60Hz								
	Power factor	≥ 0.95@230VAC, full load								
	Efficiency	81%@230VAC,full load								
	THD	< 20%@230VAC,full load								
	Current	0.12Amax@230VAC								
	Inrush Current	Cold start, 15 A(t=width30us measured at 50% Ipeak)@ 230VAC								
Protection	Short circuit	Shut down the output automatically recovers after faulty condition is removed.								
	Over load	When the output voltage is exceeded, decreases and ,recovers automatically when the load is reduced.								
	Over temperature	Shut down the output, recovers automatically when temp.back to normal.								
Function	Dimming	Triac/ELV								
	Dimension	150*43*29 mm (L*W*H)								
Others	G.W	130g								
	Working temp.	-20C~50C								
	Relative humidity	20~90% RH								

Dimming Curve



Power Factor



Recycling electrical waste

Waste electrical and electronic equipment should be recycled and not incinerated or disposed of in general waste. For more information, refer to your local council authority.



WANT MORE?
 **LIGHTMASTER**



For more LIGHTMASTER products, information and services, please see our website at
www.lightmaster-direct.co.uk or telephone 01608 682 115

