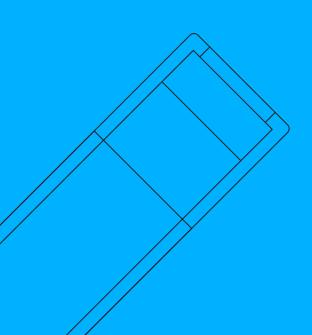


**DATASHEET** 

EUS42IHIBLE501050A



POWERED BY CASAMBI

Version: 01







\*Image is for viewing purpose. Technical Data not to be drawn from above image.

### Approval Markings:

















#### **Product Description**

- · Smart Dimmable Constant Current Driver For Led Modules
- Input Voltage 240VAC
- · Output Ripple Current <5% (@ Full Load) Flicker Free
- High Efficiency >86%(@100% Load Voltage)
- Power Factor >0.98, THD<10%(@100%Load)</li>
- · For use in combination with Luminaries of Protection Class II
- · Protection against Abnormal Operating Conditions Like Input Over Voltage Protection, Under Voltage Protection, Short Circuit Protection, Open Voltage Protection, Overload Protection.
- Surge Protection 4KV
- Compatible with BLE, BLE MESH & ZIGBEE Module
- Nominal Life Time: 50,000 hours @ tc ≤ tcmax

#### Functions

- · Seamless Control
- · Adjustable output current with Dip Switch
- · Dimming Control
- · Application oriented operation for maximum compatibility

#### **Benefits**

- · 1-100% Deep Dimming
- Low Standby Power
- Smooth Transition over wide range of Intensity

#### **Applications**







Shops

House



#### Technical Data

lechnical Data	
Mains Voltage Supply	
Rated Voltage Range	240VAC
Rated Frequency	50/60 Hz
Max. Admissible Input Voltage Range(AC)	175-265VAC
Total Harmonic Distortion (THD)	<10% (@Full Load)
Mains voltage withstanding capacity	400VAC for 2hrs (with overvoltage shutdown)
Output Data	
Constant current	
Output current tolerance	±5%
Max. Ripple output current(with LED Load)	<5% (@ Full Load)
Max starting Time	<1s
Interface And Dimming Operation	
Dimming Interface	PWM
Power Factor	
240V(@ Full Load)	>0.98
Efficiency(typ.)	
Full Load	>86%
Protections	
Open Circuit	<50VDC
Output Short Circuit Operation	YES
Input Over Voltage Cutoff	320VAC ±10%
Input Under Voltage Cutoff	80VAC ±10%
Connection Terminals	For Solid Or Stranded Wire
Туре	Push Terminal
Wire Cross Section	0.5mm² - 1.5mm²
Wire Stripping Length	8.5mm - 9.5mm
Wire Lengths	
Max. Wire Length To Led Module	<1m



#### — Protection

Surge	4kV
High Voltage	400V

## Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
EUS42IHIBLE501050A	0°C +50°C	Max + 75°C

# Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Effici- ency	Output Current	Output Voltage	Output Power (max)
EUS42IHIBLE501050A	200mA	45W	<10%	>0.98	>86%	700-1050mA	9-50V	42W

All specifications with 240 VAC are nominal operation and 100% load.

#### LED Current Selection

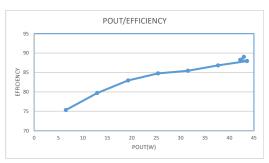
DIP Switch		干土土	土干土	ママム	土土干	<b>ア</b> ムテ	<b>4</b> 77	<b>TTT</b>	
Output Current	700mA	750mA	800mA	850mA	900mA	950mA	1000mA	1050mA	TL
Output Voltage	9-50V	9-50V	9-50V	9-50V	9-44V	9-44V	9-42V	9-40/36V	ON OFF
Output Power	4.2-29.4W	4.5-31.5W	4.8-33.6W	5.1-35.7W	5.4-36W	5.7-34.2W	6-36W	6.3-35.7W	

## Graphs

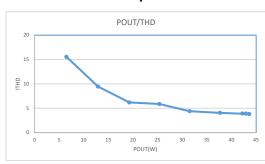
#### **Operating Window**



#### **Efficiency Vs Output Power**



#### **THD Vs Output Power**



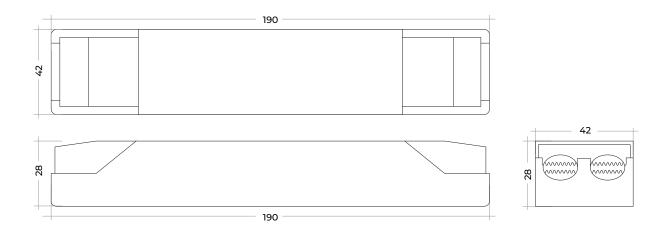
Error expected. We reserve the right to make alternations in the interest of improving our products.



### —— Housing Properties

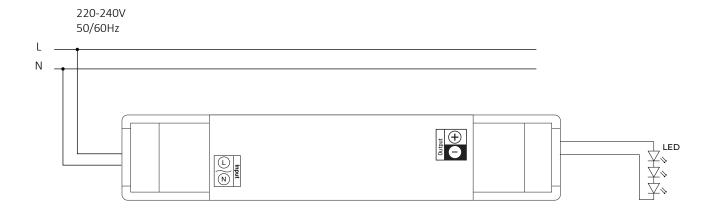
Degree of protection	IP20
Casing	Polycarbonate, White

# —— Housing Dimensions



Dimensions (LxWxH)	190X42X28 mm
Tolerance	± 1mm
Weight	160 gm

### — Wiring Diagrams





# Switch Configuration





DS Output Current Settings							
S/W1	S/W2	S/W3	DRIVE CURRENT (mA)				
OFF	OFF	OFF	700				
ON	OFF	OFF	750				
OFF	ON	OFF	800				
ON	ON	OFF	850				
OFF	OFF	ON	900				
ON	OFF	ON	950				
OFF	ON	ON	1000				
ON	ON	ON	1050				

SW1	SW 2	SW 3	Input Voltage (V)	Input Current (mA)	Input Power (P)	THD	Power Factor	Efficiency	Output Current (mA)	Output Voltage (V)	Output Power (P)
OFF	OFF	OFF	241.34	167.16	39.7	4.65	0.99	88.82	705.77	50.03	35.25
ON	OFF	OFF	241.37	178.79	42.9	4.63	0.99	89.09	758.23	50.38	38.18
OFF	ON	OFF	241.38	190.06	45.3	4.33	0.99	89.24	807.70	50.08	40.41
ON	ON	OFF	241.38	201.70	48.1	4.24	0.99	89.45	850.50	50.08	42.56
OFF	OFF	ON	241.12	204.46	48.7	4.13	0.99	89.25	904.89	44.09	39.60
ON	OFF	ON	241.23	199.74	47.6	4.14	0.99	88.47	956.03	44.08	42.06
OFF	ON	ON	241.32	200.40	47.7	4.17	0.99	88.27	1002.84	42.07	42.15
ON	ON	ON	241.33	201.29	48.0	4.12	0.99	88.11	1053.21	40.17	42.29

<sup>\*</sup>Only for reference with respect to DIP Switch.

### Expected Lifetime

Lifetime	50,000 hours
Warranty	5 years

## Logistics Data

Model No.	EUS42IHIBLE501050A
Weight (gm)	160 gm

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