



# COLOSSUS<sup>TM</sup>

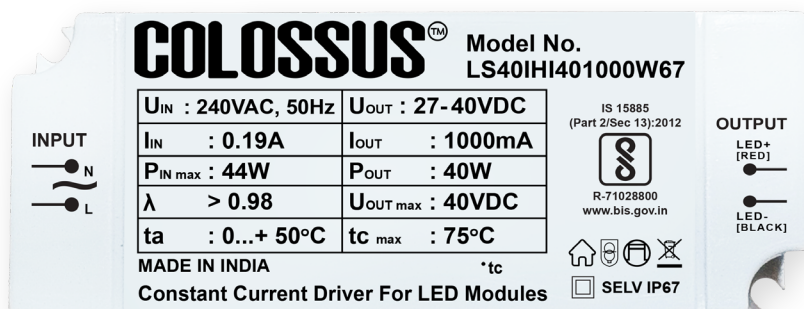
*Excellence inside*

## DATASHEET

LS40IH1401000W67



Version: 01



<https://colossusworld.com/>

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

### Approval Markings:



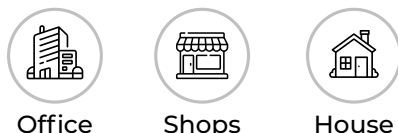
### Product Description

- Constant current driver for led modules
- Input voltage 240VAC
- High efficiency >88%(@100% Load)
- Power factor >0.98,THD<10%(@100%Load)
- 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
- Nominal Life Time: 30,000 hours @  $t_c \leq t_{c\ max}$
- Driver is suitable for use in Dry & Damp locations

### Functions

- Application oriented operation for maximum compatibility

### Applications



Office

Shops

House

### Technical 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	440VAC for 2hrs (with overvoltage shutdown)

#### Output Data

##### Constant current

Output Current Tolerance	±5%
Max Starting Time	<1s

#### Interface And Dimming Operation

Dimming Interface	None
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#### Power Factor

240V(@ Full Load)	>0.98
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#### Efficiency(typ.)

Full Load	>88%
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#### Protections

Open Circuit	<47VDC
Output Short Circuit Operation	YES
Input Over Voltage Cutoff	300VAC ±10%
Input Under Voltage Cutoff	100VAC ±10%

#### Connection Wires

Type	Solid or Stranded Wire
Wire Cross Section	0.75mm <sup>2</sup> - 1.5mm <sup>2</sup>
Wire Length	180mm (±15mm)

#### Wire Lengths

Max. Wire Length To Led Module	<1m
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### Protection

Surge	4kV
High Voltage	440V

### Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
LS40IHI401000W67	0°C... +50°C	Max + 75°C

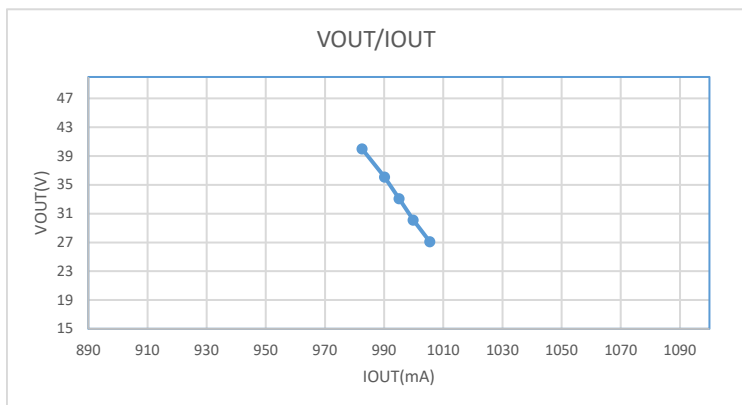
### Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
LS40IHI401000W67	190mA	44W	<10%	>0.98	>88%	1000mA	27-40V	40W

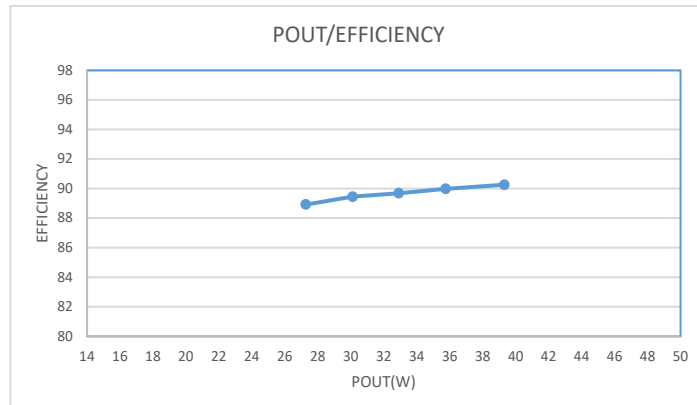
All specifications with 240 VAC are nominal operation and 100% load.

### Graphs

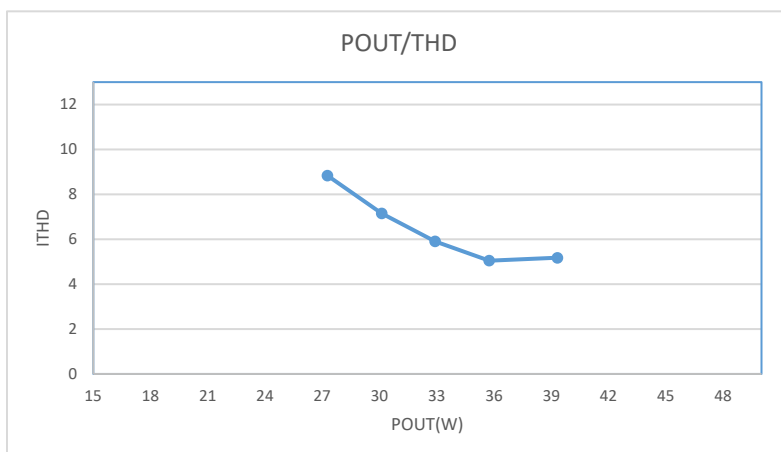
Operating Window



Efficiency Vs Output Power



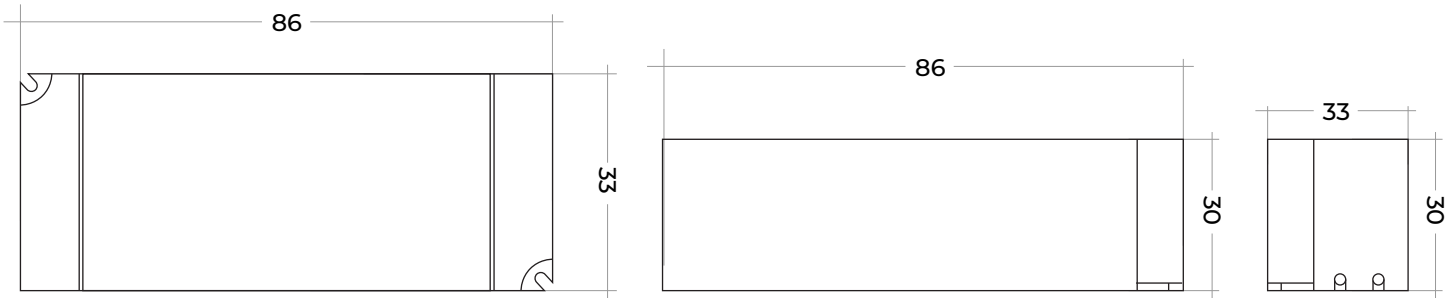
THD Vs Output Power



Housing Properties

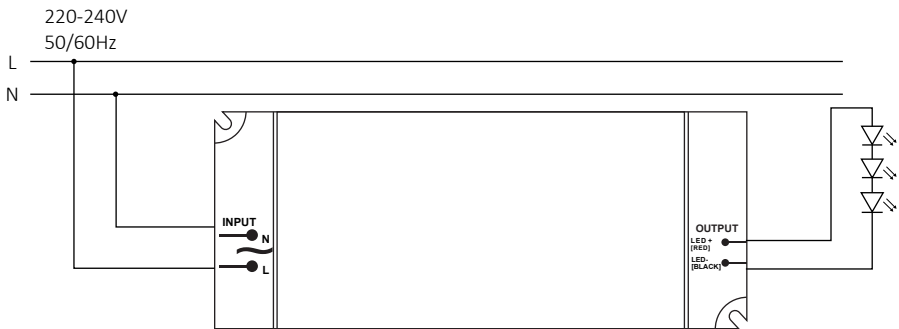
Degree of protection	IP67
Casing	Polycarbonate, White

Housing Dimensions



Dimensions	86x33x30mm
Tolerance	± 1mm
Weight	100 gm

Wiring Diagrams



Expected Lifetime

Lifetime	30,000 hours
Warranty	3 years

Logistics Data

Model No.	LS40IH1401000W67
Weight (gm)	100 gm