



# COLOSSUS<sup>TM</sup>

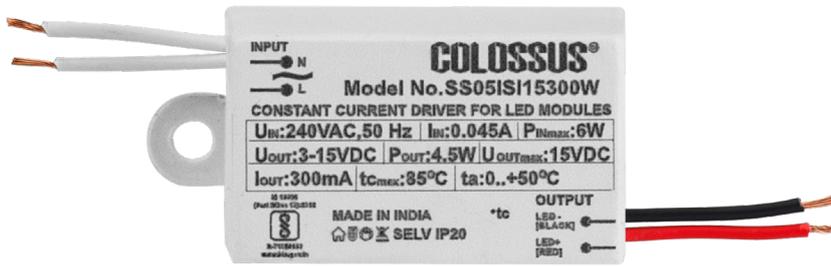
*Excellence inside*

**DATASHEET**

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**SS05ISI15300W**

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 >77%(@100% Load)
- Power factor >0.6 (@100%Load)
- For use in combination with luminaries of protection class II.
- Protection against Abnormal Operating Conditions Like Short Circuit Protection, Open Voltage Protection, Overload Protection.
- Surge protection 2.5KV
- Nominal Life Time: 20,000 hours @  $t_c \leq t_{cmax}$

### Functions

- Application oriented operation for maximum compatibility

### Applications



## Technical Data

### Mains Voltage Supply

Rated Voltage Range	240VAC
Rated Frequency	50/60 Hz
Max. Admissible Input Voltage Range(AC)	175-265VAC
Mains Voltage Withstanding Capacity	300VAC for 2hrs

### 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)	>0.60
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### Efficiency(typ.)

Full Load	>77%
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### Protections

Open Circuit	<21VDC
Output Short Circuit Operation	YES
Input Over Voltage Cutoff	NA
Input Under Voltage Foldback	120VAC ±10%

### Connection Wires

Type	Solid or Stranded Wire
Wire Cross Section	0.5mm <sup>2</sup> - 1.5mm <sup>2</sup>
Wire Length	135mm (±10mm)

### Wire Lengths

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

Surge	2.5kV
High Voltage	300V

## Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
SS05ISI15300W	0°C... +50°C	Max + 85°C

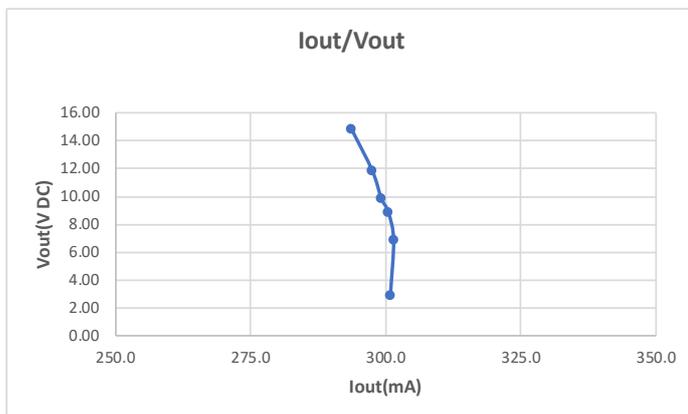
## Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
SS05ISI15300W	45mA	6W	NA	>0.60	>77%	300mA	3-15V	4.5W

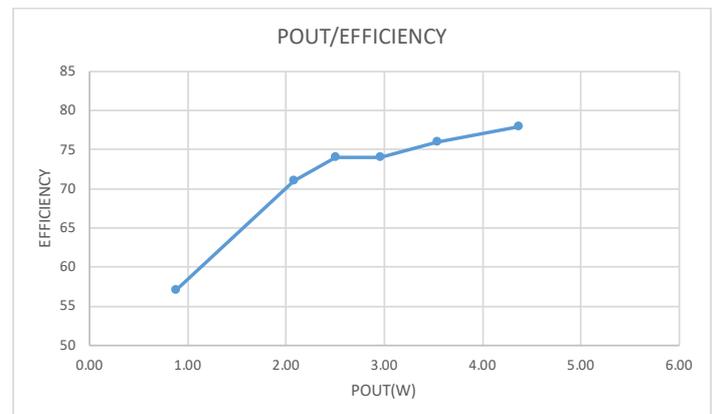
All specifications with 240 VAC are nominal operation and 100% load.

## Graphs

Operating Window



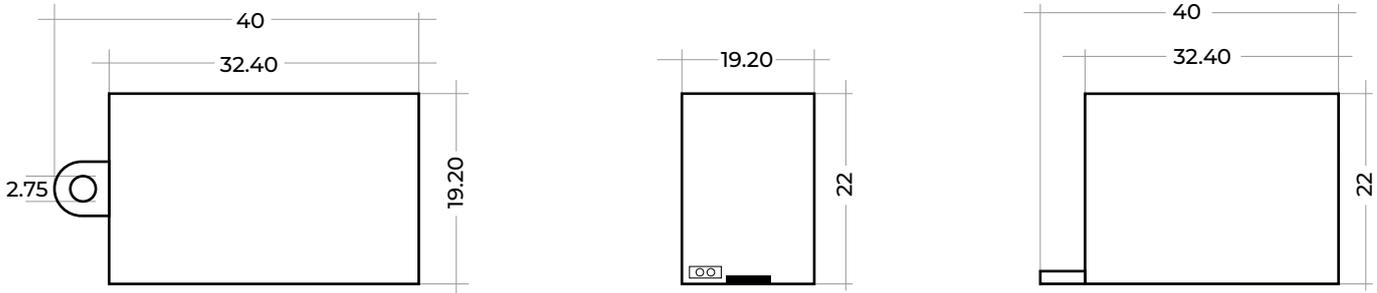
Efficiency Vs Output Power



## Housing Properties

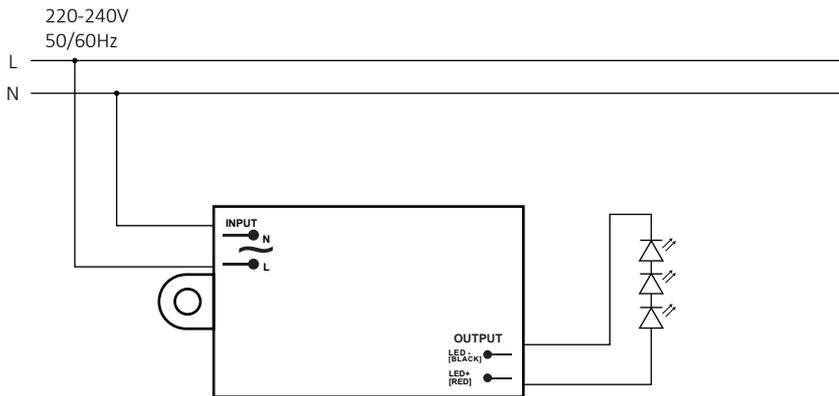
Degree of protection	IP20
Casing	Polycarbonate, White

## Housing Dimensions



<b>Dimensions</b>	40x19.20x22mm
<b>Tolerance</b>	± 1mm
<b>Weight</b>	10 gm

## Wiring Diagrams



## Expected Lifetime

<b>Lifetime</b>	20,000 hours
<b>Warranty</b>	1 years

## Logistics Data

<b>Model No.</b>	SS05ISI15300W
<b>Weight (gm)</b>	10 gm