

# COLOSSUS<sup>TM</sup>

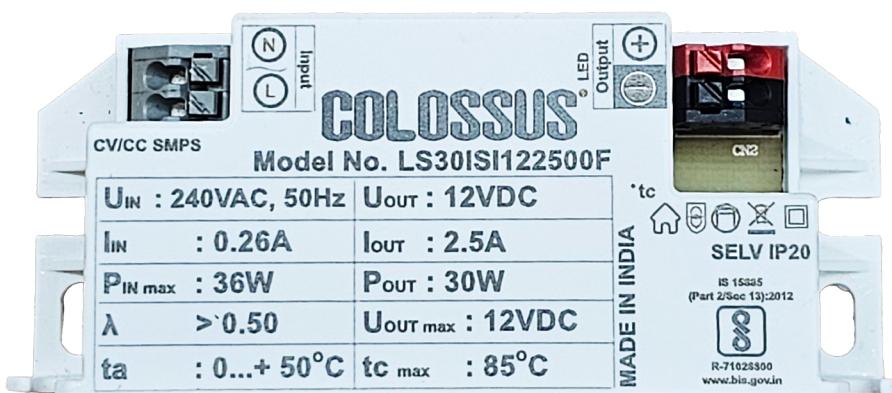
*Excellence inside*

**DATASHEET**

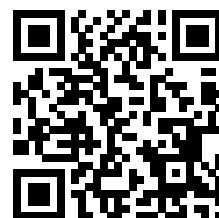
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**LS30ISI122500F**

Version: 01



WEBSITE



<https://colossusworld.com/>

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

### Approval Markings:



### Product Description

- CV/CC Driver for led modules
- Input Voltage 240VAC
- High efficiency >84%(@100% Load)
- Power factor >0.50 (@100%Load)
- For use in combination with luminaries of protection class II.
- Protection against Abnormal Operating Conditions Like Open Voltage Protection, Overload Protection & Short Circuit Protection.
- Surge protection 2.5KV
- Nominal Life Time: 30,000 hours @  $tc \leq tc_{max}$

### 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
Mains Voltage Withstanding Capacity	320VAC 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)	>0.50
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### Efficiency(typ.)

Full Load	>84%
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### Protections

Open Circuit	<13VDC
Output Short Circuit Operation	Yes
Input Over Voltage Cutoff	None
Input Under Voltage Cutoff	None

### Connection Terminals

Type	Push Terminal
Wire Cross Section	0.5mm <sup>2</sup> - 1.5mm <sup>2</sup>
Wire Stripping Length	8.5mm - 9.5mm

### Wire Lengths

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

Surge	2.5kV
High Voltage	320V

### Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
LS30ISI122500F	0°C... +50°C	Max + 85°C

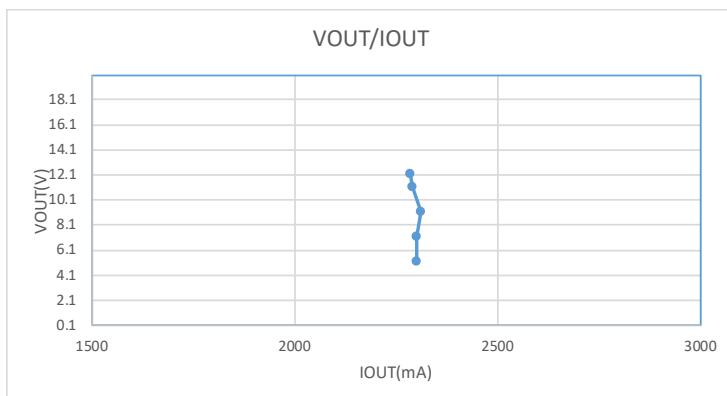
### Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
LS30ISI122500F	260mA	36W	N.A	>0.50	>84%	2500mA	12V	30W

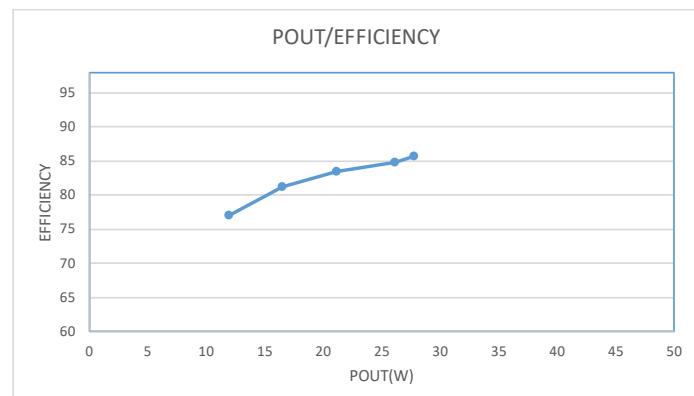
All specifications with 240 VAC are nominal operation and 100% load.

### Graphs

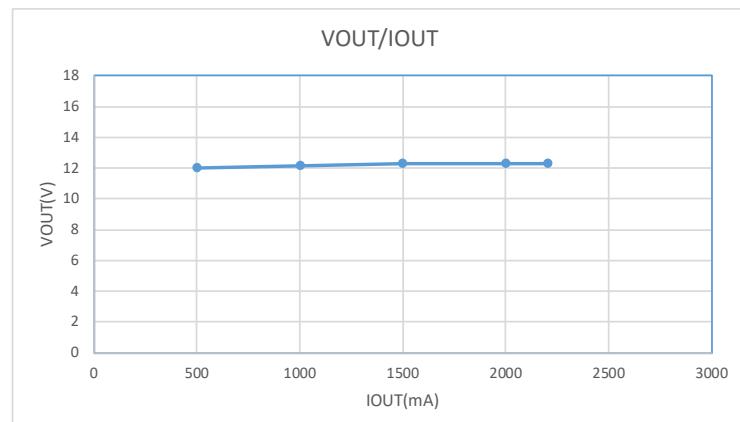
Operating Window (CV)



Efficiency Vs Output Power



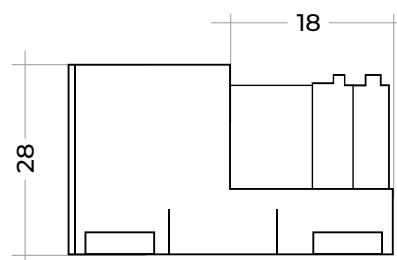
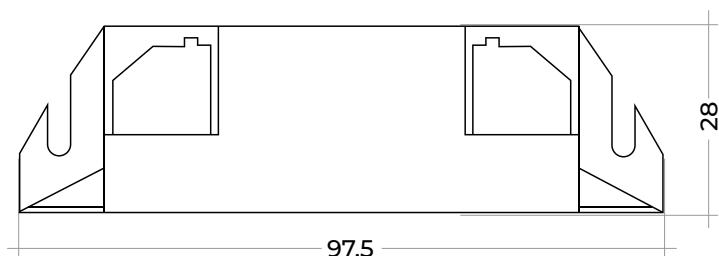
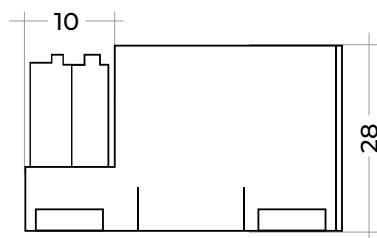
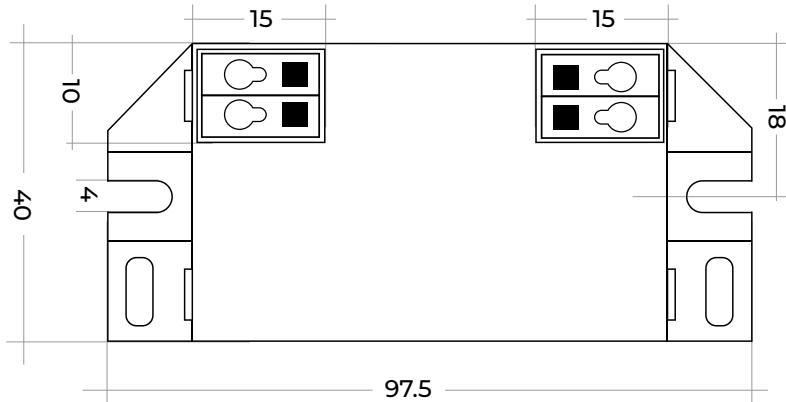
Operating Window (CC)



### Housing Properties

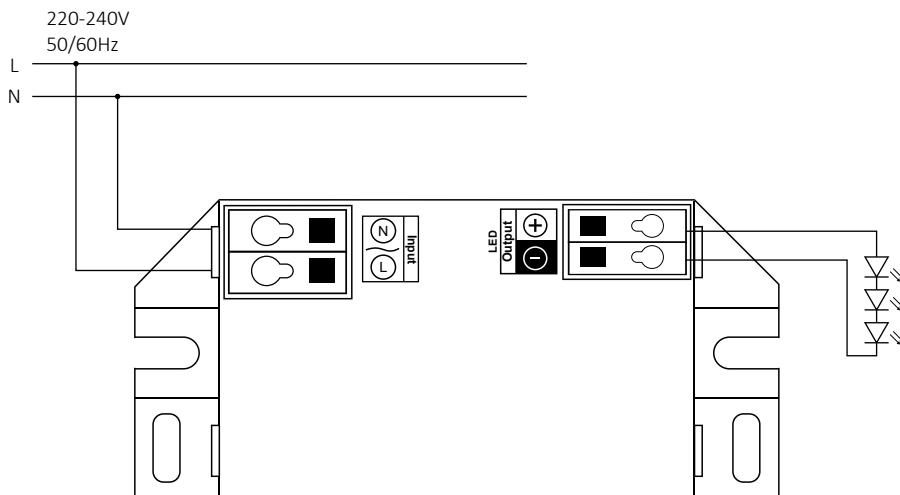
Degree of protection	IP20
Casing	Polycarbonate, White

### Housing Dimensions



Dimensions	97.5*40*28mm
Tolerance	± 1mm
Weight	65 gm

## Wiring Diagrams



## Expected Lifetime

<b>Lifetime</b>	30,000 hours
<b>Warranty</b>	2 years

## Logistics Data

<b>Model No.</b>	LS30ISI122500F
<b>Weight (gm)</b>	65 gm