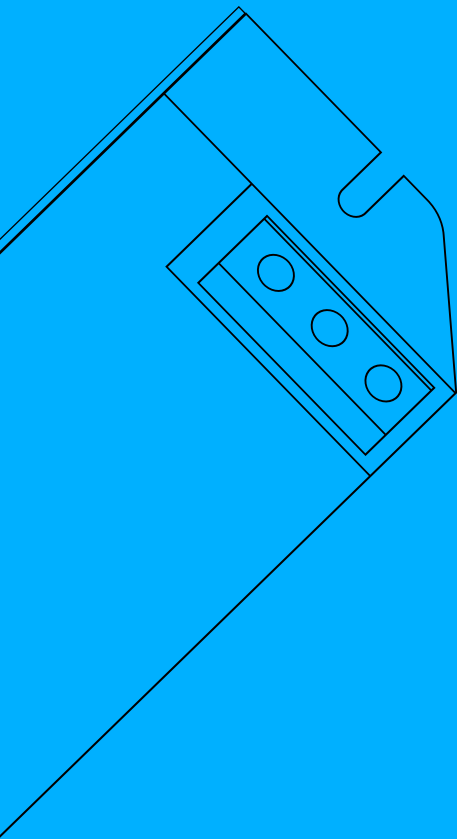


# COLOSSUS<sup>TM</sup>

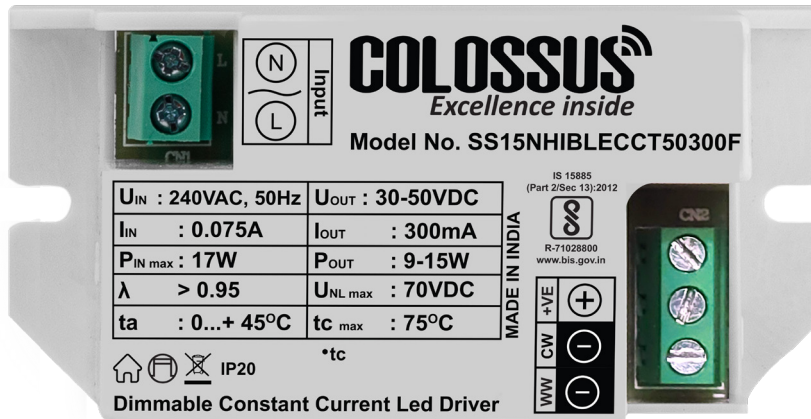
*Excellence inside*

## DATASHEET

**SS15NHIBLECCT50300F**



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 >87%(@100% Load)
- Power factor >0.95 (@100%Load)
- Protection against Abnormal Operating Conditions Like Short Circuit Protection, Open Voltage Protection.
- Surge protection 4kV
- Nominal Life Time: 30,000 hours @  $t_c \leq t_{c\ max}$

### Functions

- Seamless Control
- CCT & Dimming Control
- Application oriented operation for maximum compatibility

### Benefits

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

### 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	PWM
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### Power Factor

240V(@ Full Load)	>0.95
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### Efficiency(typ.)

Full Load	>87%
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### Protections

Open Circuit	<65VDC
Output Short Circuit Operation	YES
Input Over Voltage Cutoff	NA

### Connection Wires

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

### Wire Lengths

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

Surge	4kV
High Voltage	300V

### Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
SS15NHIBLECCT50300F	0°C... +45°C	Max + 75°C

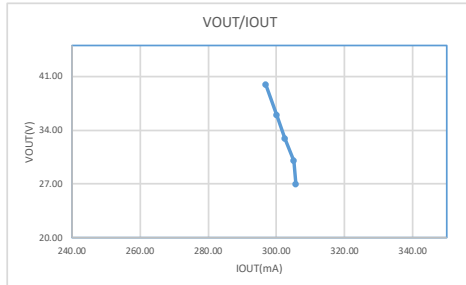
### Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
SS15NHIBLECCT50300F	75mA	17W	<20%	>0.95	>87%	300mA	30-50V	15W

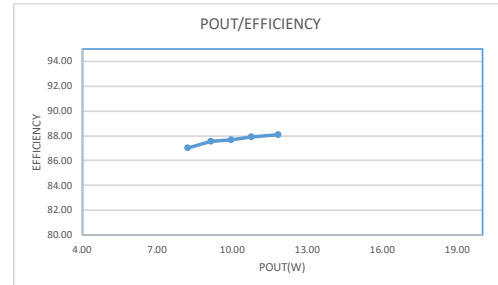
All specifications with 240 VAC are nominal operation and 100% load.

### Graphs

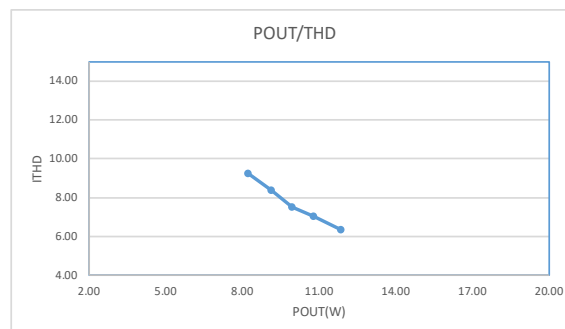
Operating Window



Efficiency Vs Output Power



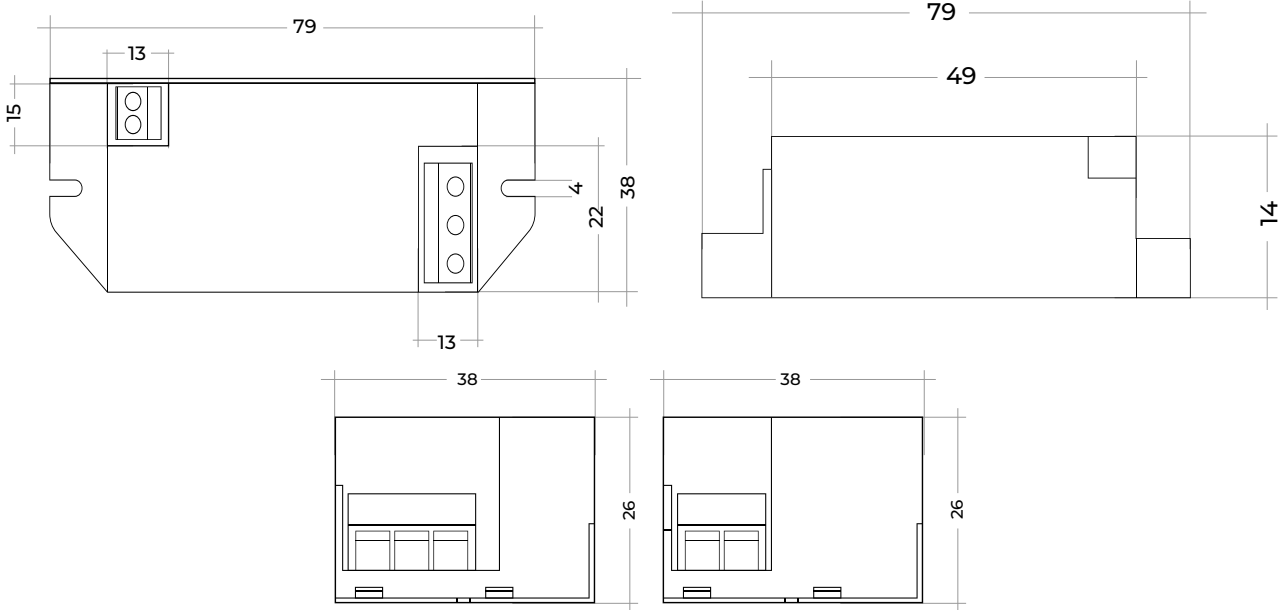
THD Vs Output Power



### Housing Properties

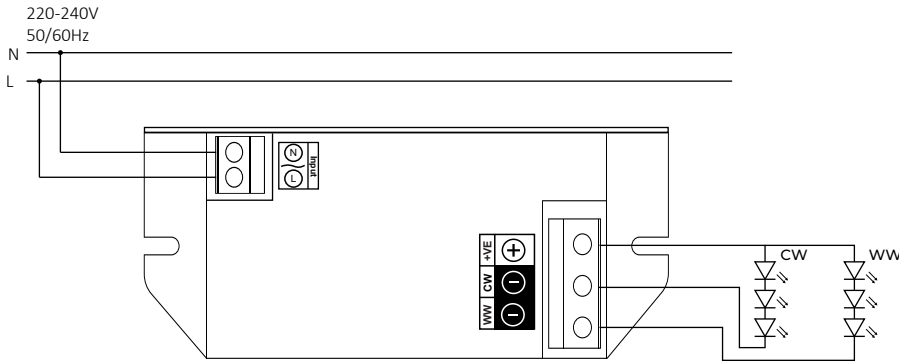
Degree of protection	IP20
Casing	Polycarbonate, White

**Housing Dimensions**



<b>Dimensions</b>	79x38x26mm
<b>Tolerance</b>	± 1mm
<b>Weight</b>	42 gm

**Wiring Diagrams**



**Expected Lifetime**

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

**Logistics Data**

<b>Model No.</b>	SS15NHIBLECCT50300F
<b>Weight (gm)</b>	42 gm