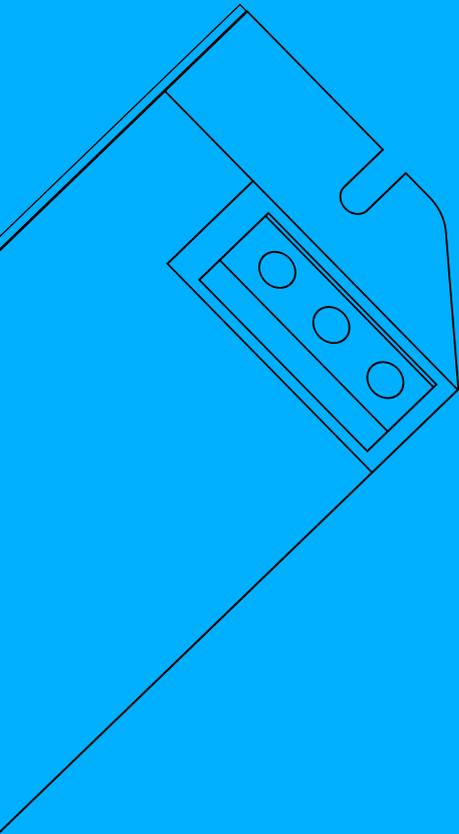


COLOSSUSTM

Excellence inside

DATASHEET

SS15NSIBLECCT75200F



Version: 01



<https://colossusworld.com/>

*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
- High Efficiency >87%(@100% Load)
- Power Factor >0.50
- Protection against Abnormal Operating Conditions Like Input , Short Circuit Protection, Open Voltage Protection.
- Surge Protection 2.5kV
- Compatible with BLE, BLE MESH & ZIGBEE Module
- 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



Office

Shops

House

Technical Data

Mains Voltage Supply

Rated Voltage Range	240VAC
Rated Frequency	50/60 Hz
Max. Admissible Input Voltage Range(AC)	100-265VAC
Mains Voltage Withstanding Capacity	300 VAC

Output Data

Constant current

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

Interface And Dimming Operation

Dimming Interface	PWM
-------------------	-----

Power Factor

240V(@ Full Load)	>0.50
-------------------	-------

Efficiency(typ.)

Full Load	>87%
-----------	------

Protections

Open Circuit	<115VDC
Output Short Circuit Operation	NA
Input Over Voltage Cutoff	NA

Connection Wires

Type	Terminal Block
Wire Cross Section	0.5mm ² - 1.5mm ²
Wire Stripping Length	8.5mm - 9.5mm

Wire Lengths

Max. Wire Length To Led Module	<1m
--------------------------------	-----

Protection

Surge	2.5kV
High Voltage	300VAC

Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
SS15NSIBLECCT75200F	0°C... +50°C	Max + 75°C

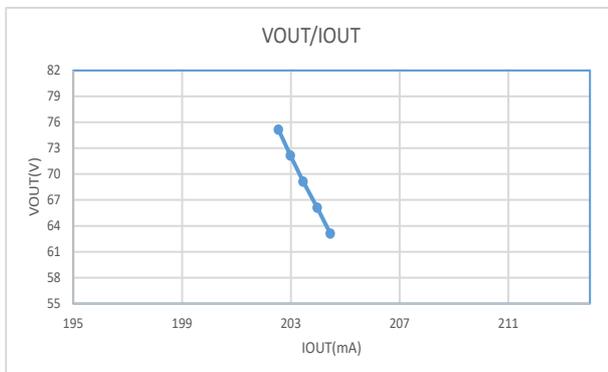
Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
SS15NSIBLECCT75200F	125mA	17W	NA	>0.50	>87%	200mA	60-75V	15W

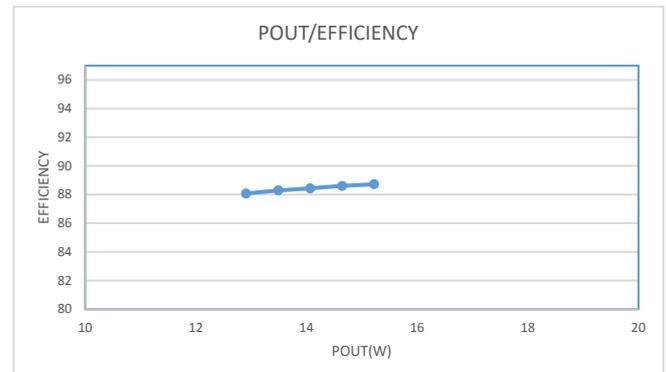
All specifications with 240 VAC are nominal operation and 100% load.

Graphs

Operating Window



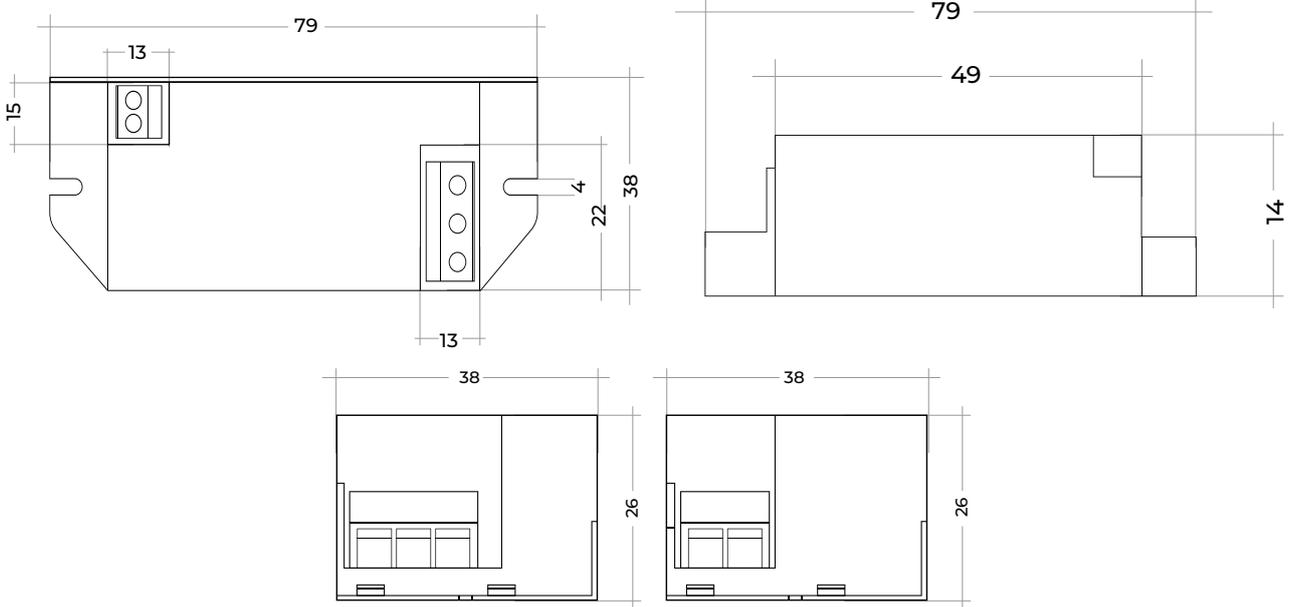
Efficiency Vs Output Power



Housing Properties

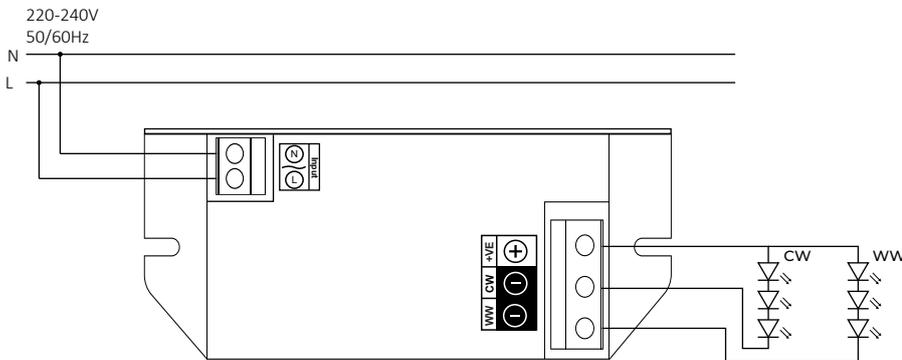
Degree of protection	IP20
Casing	Polycarbonate, White

Housing Dimensions



Dimensions	79x38x26.5mm
Tolerance	± 1mm
Weight	42 gm

Wiring Diagrams



Expected Lifetime

Lifetime	30,000 hours
Warranty	2 years

Logistics Data

Model No.	SS15NSIBLECCT75200F
Weight (gm)	42 gm