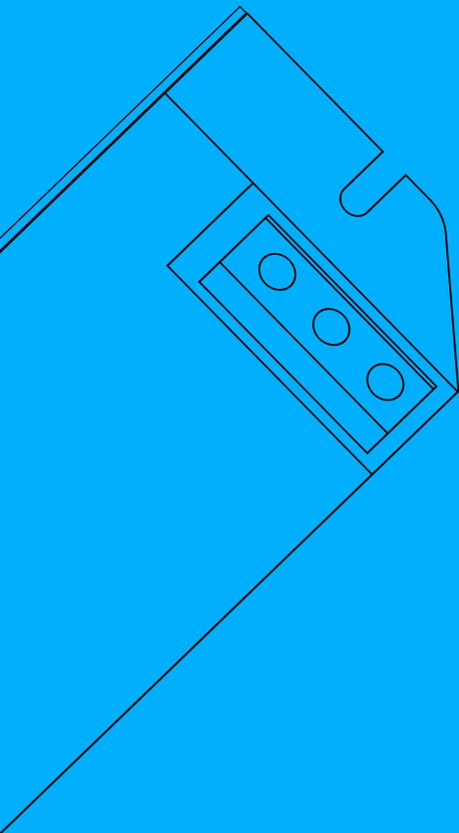


COLOSSUSTM

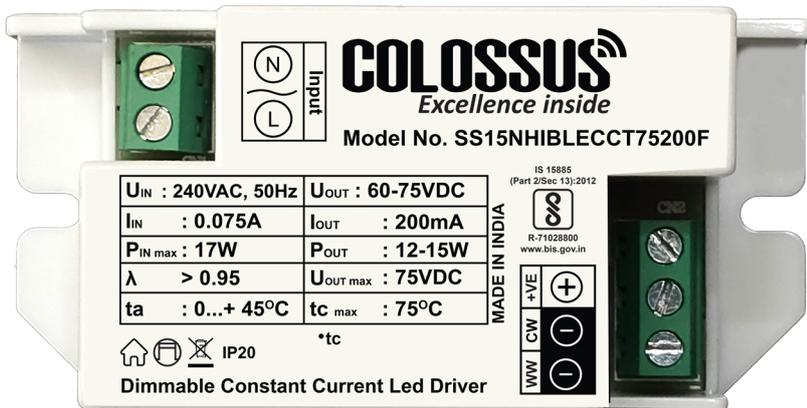
Excellence inside

DATASHEET

SS15NHIBLECCT75200F



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 >88%(@100% Load)
- Power Factor >0.95, THD<20%
- Protection against Abnormal Operating Conditions Like Input Over Voltage Protection.
- Surge Protection 4kV
- 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	350 VAC

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	>88%
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Protections

Open Circuit	<95VDC
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
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Protection

Surge	4kV
High Voltage	350VAC

Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
SS15NHIBLECCT75200F	0°C... +50°C	Max + 75°C

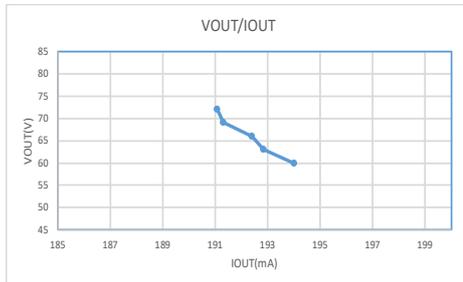
Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
SS15NHIBLECCT75200F	75mA	17W	≤20%	>0.95	>88%	200mA	60-75V	15W

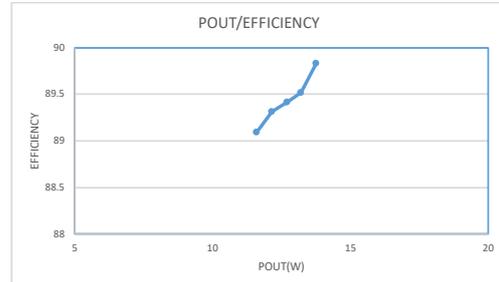
All specifications with 240 VAC are nominal operation and 100% load.

Graphs

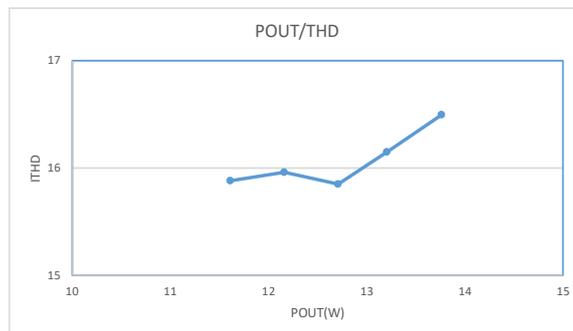
Operating Window



Efficiency Vs Output Power



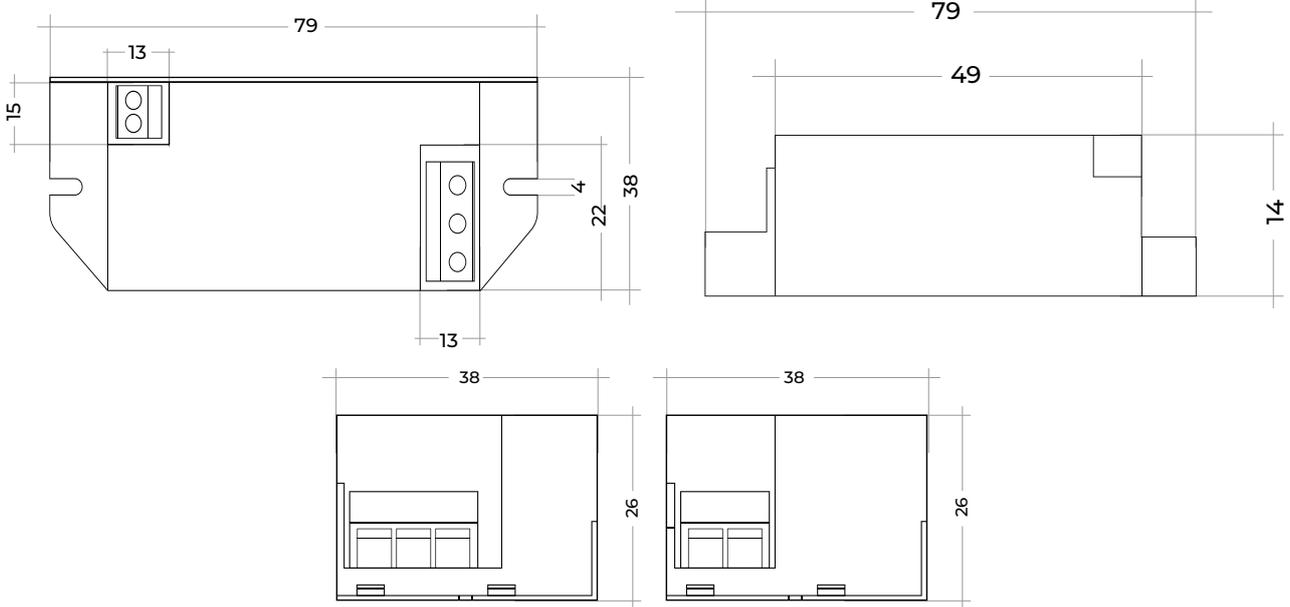
THD Vs Output Power



Housing Properties

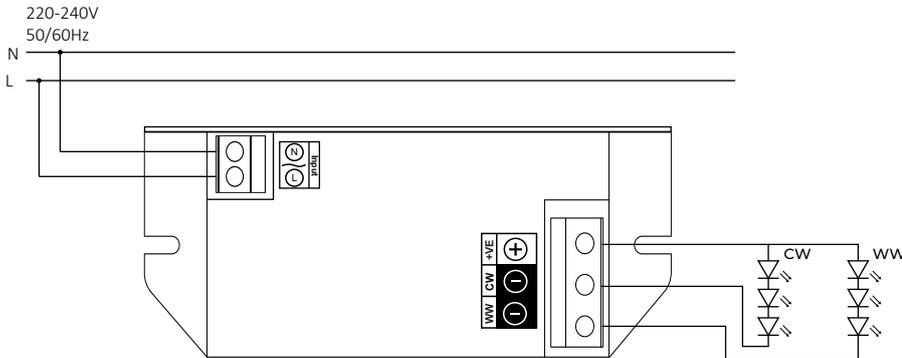
Degree of protection	IP20
Casing	Polycarbonate, White

Housing Dimensions



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

Wiring Diagrams



Expected Lifetime

Lifetime	30,000 hours
Warranty	2 years

Logistics Data

Model No.	SS15NHIBLECCT75200F
Weight (gm)	42 gm