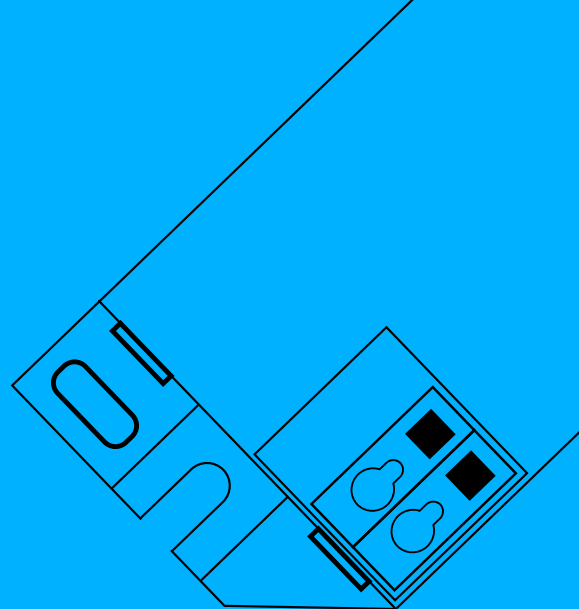


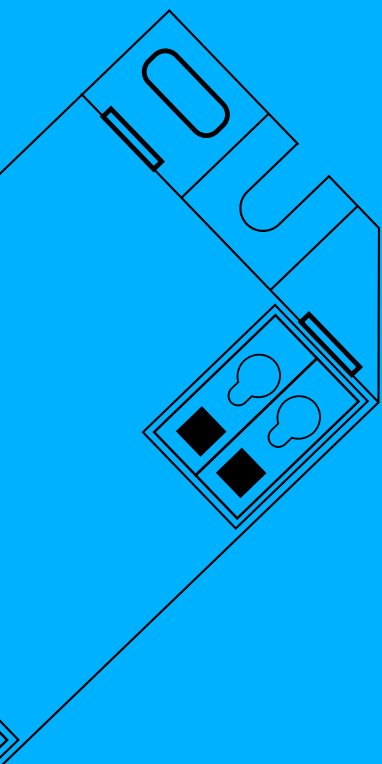


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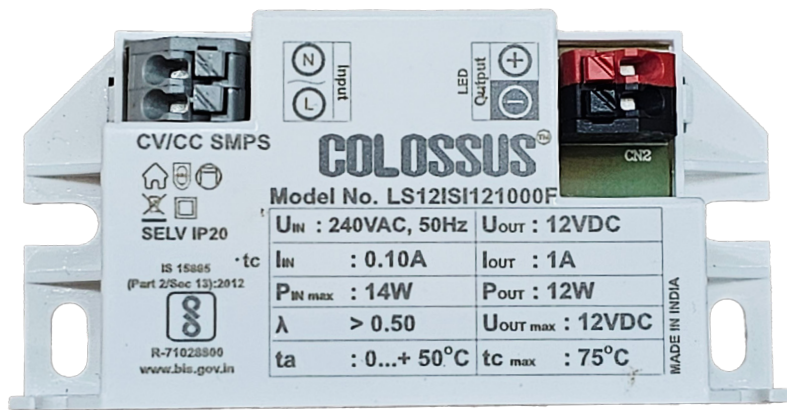
Excellence inside

DATASHEET

LS12ISI121000F



Version: 01



<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 >80%(@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 @ $t_c \leq t_{c\max}$

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	>80%
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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	For solid Or stranded wire
Wire Cross Section	Push Terminal
Wire Stripping Length	0.5mm ² - 1.5mm ²
	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)
LS12ISI121000F	0°C... +50°C	Max + 75°C

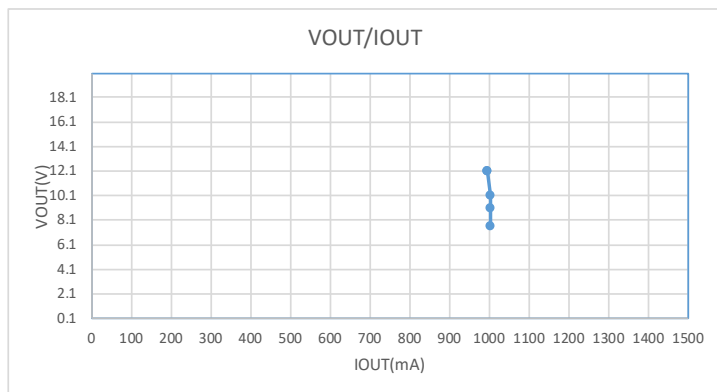
Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
LS12ISI121000F	100mA	14W	N.A	>0.50	>80%	1000mA	12V	12W

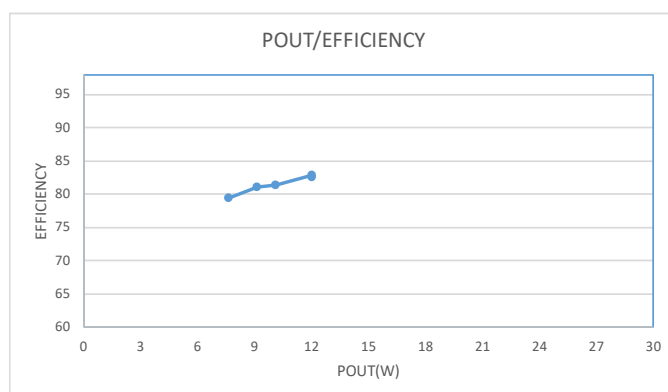
All specifications with 240 VAC are nominal operation and 100% load.

Graphs

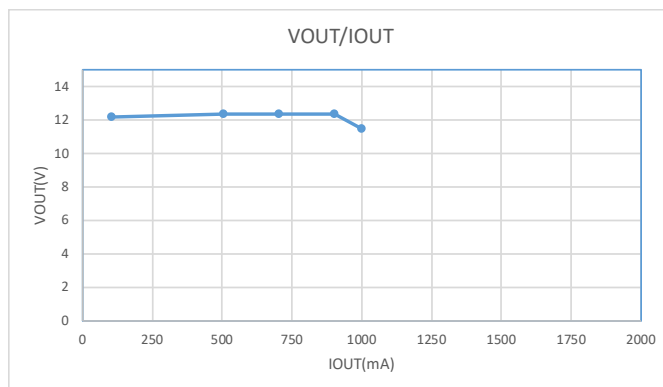
Operating Window (CV)



Efficiency Vs Output Power



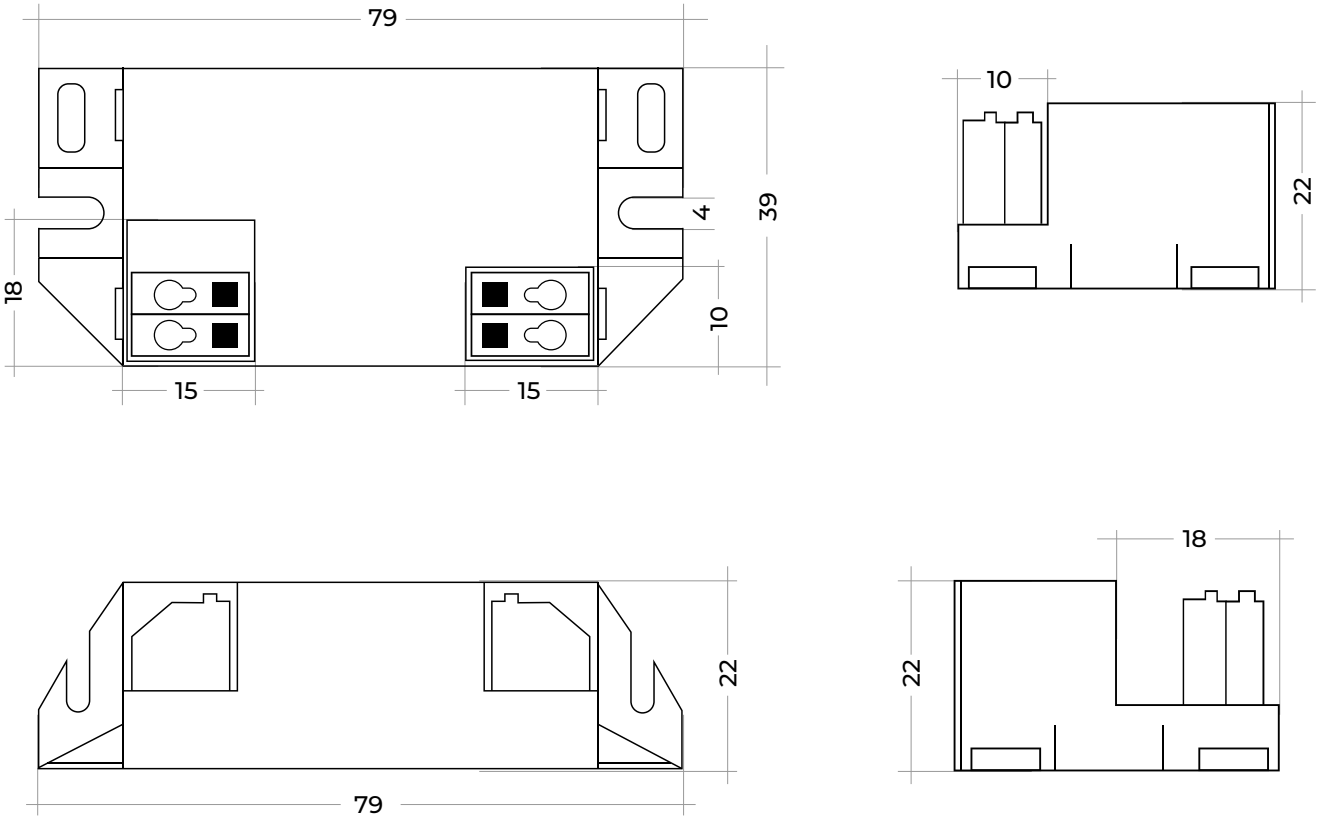
Operating Window (CC)



Housing Properties

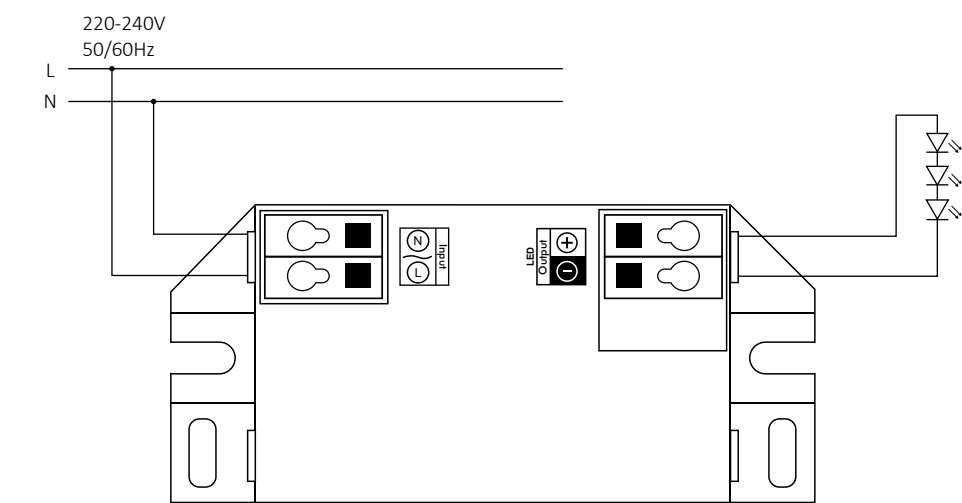
Degree of protection	IP20
Casing	Polycarbonate, White

Housing Dimensions



Dimensions	79x39x22mm
Tolerance	± 1mm
Weight	50 gm

Wiring Diagrams



Expected Lifetime

Lifetime	30,000 hours
Warranty	2 years

Logistics Data

Model No.	LS12ISI121000F
Weight (gm)	50 gm