

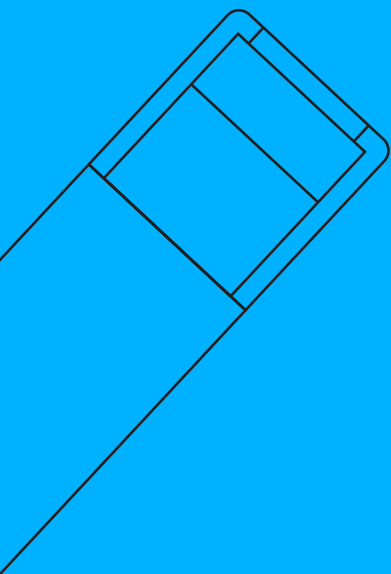


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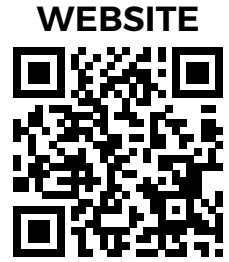
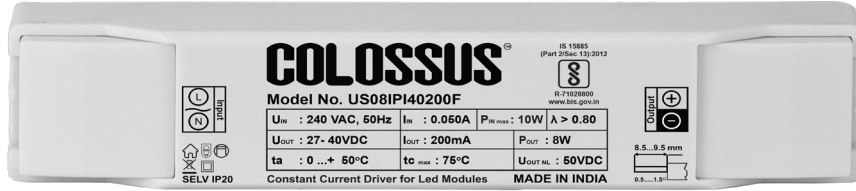
Excellence inside

DATASHEET

US08IPI40200F



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 >85%(@100% Load)
- Power factor >0.80(@100%Load)
- For use in combination with luminaries of protection class II.
- Protection against Abnormal Operating Conditions Like Short Circuit Protection, Open Voltage Protection, Overload Protection.
- Surge protection 3KV
- Nominal Life Time: 30,000 hours @ $t_c \leq t_{c,max}$

Functions

- Application oriented operation for maximum compatibility

Applications



Technical Data

Mains Voltage Supply

Rated Voltage Range	240VAC
Rated Frequency	50/60 Hz
Max. Admissible Input Voltage Range(AC)	175-265VAC
Total Harmonic Distortion (THD)	<60% (@Full Load)
Mains Voltage Withstanding Capacity	320VAC for 8hrs (with overvoltage shutdown)

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)	>0.85
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Efficiency(typ.)

Full Load	>86%
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Protections

Open Circuit	<55VDC
Output Short Circuit Operation	YES
Input Over Voltage Cutoff	NA
Input Under Voltage Cutoff	NA

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	3kV
High Voltage	320V

Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
US08IPI40200F	0°C... +50°C	Max + 75°C

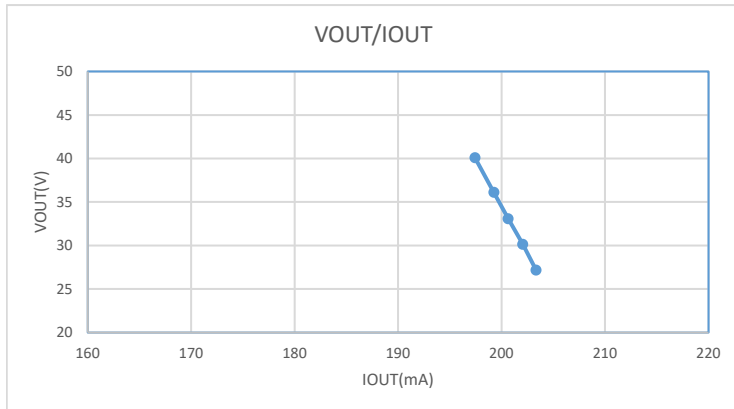
Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
US08IPI40200F	50mA	10W	<60%	>0.80	>86%	200mA	27-40V	8W

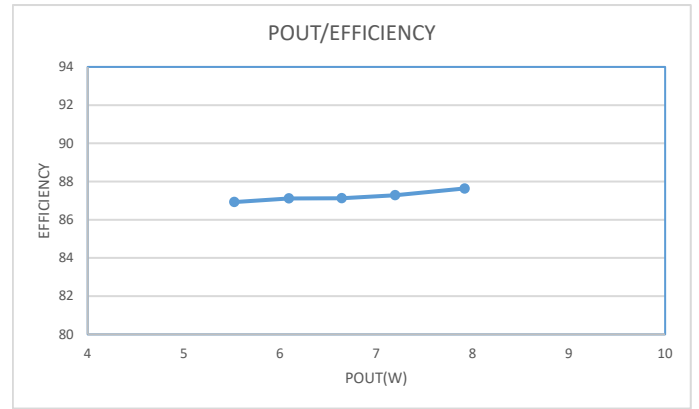
All specifications with 240 VAC are nominal operation and 100% load.

Graphs

Operating Window



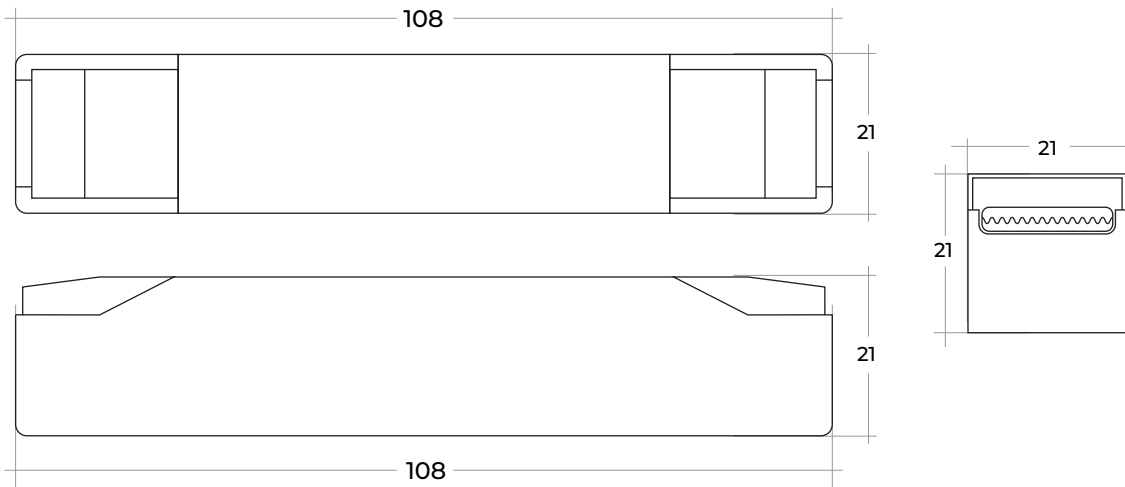
Efficiency Vs Output Power



Housing Properties

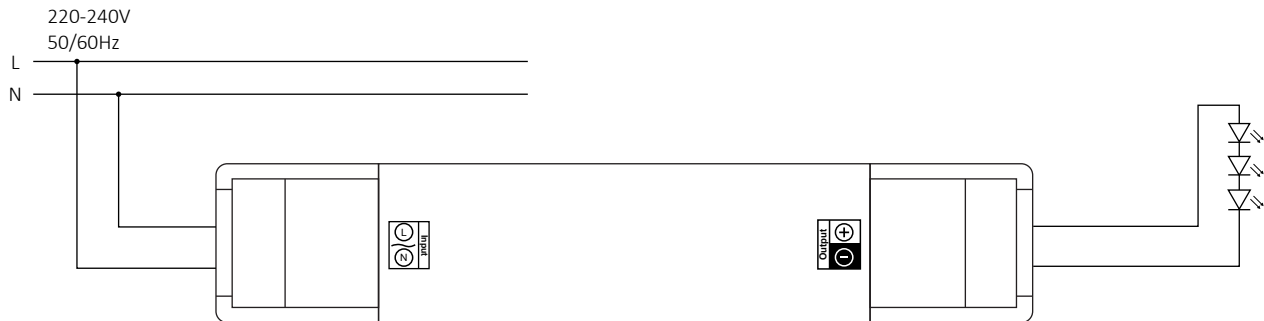
Degree of protection	IP20
Casing	Polycarbonate, White

Housing Dimensions



Dimensions	108x21x21mm
Tolerance	± 1mm
Weight	40 gm

Wiring Diagrams



Expected Lifetime

Lifetime	30,000 hours
Warranty	2 years

Logistics Data

Model No.	US08IPI40200F
Weight (gm)	40 gm