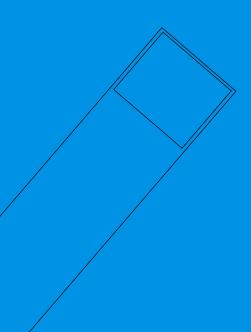


COLOSSUS®

Excellence inside

DATASHEET

US1001HI244170F







*Image is for viewing purpose. Technical Data not to be drawn from above image.

Approval Markings:



















Product Description

- · Constant Voltage Driver for led modules
- · Input Voltage 240VAC
- · Output Ripple Current <5% (@ Full Load, <120 Hz) Flicker Free
- High efficiency >90%(@100% Load)
- Power factor >0.95 (@100%Load), THD <10%
- For use in combination with luminaries of protection class II
- · Protection against Abnormal Operating Conditions Like Open Voltage Protection, Overload Protection
- Surge protection 2KV
- · Nominal Life Time: 1,00,000 hours @ tc ≤ tcmax

Functions

Application oriented operation for maximum compatibility

Applications







Shops

House



Technical Data

lechnical 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)	<10%(@Full Load-240VAC)
Mains Voltage Withstanding Capacity	300VAC for 2hrs
Output Data	
Max. Ripple output current(with LED Load)	<5% (@ Full Load, <120 Hz) - Flicker Free
Output Current Tolerance	±5%
Max Starting Time	<1s
Interface And Dimming Operation	
Dimming Interface	None
Power Factor	
240V(@ Full Load)	>0.95
Efficiency(typ.)	
Full Load	>90%
Protections	
Open Circuit	<24VDC
Output Short Circuit Operation	Yes
Input Over Voltage Cutoff	None
Input Under Voltage Cutoff	None
Connection Terminals	For solid Or stranded wire
Туре	Push Terminal
Wire Cross Section	0.75mm² - 2.5mm²
Wire Stripping Length	8mm - 9mm
Wire Lengths	
Max. Wire Length To Led Module	<1m



Protection

Surge	2kV
High Voltage	300V

Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
US1001HI244170F	-20°C +45°C	Max + 85°C

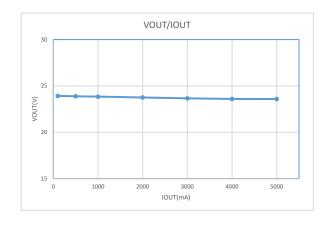
Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Effici- ency	Output Current	Output Voltage	Output Power (max)
US1001HI244170F	550mA	120W	<10%	>0.95	>90%	4.17A	24V	100W

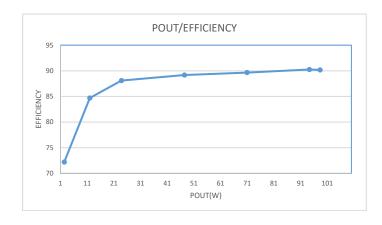
All specifications with 240 VAC are nominal operation and 100% load.

Graphs

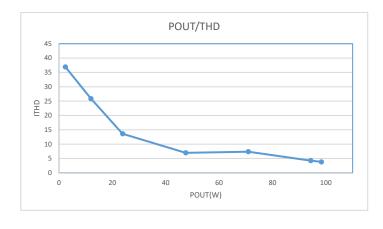
Operating Window



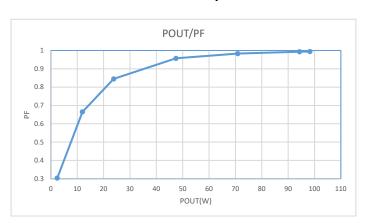
Efficiency Vs Output Power



THD Vs Output Power



Power Factor Vs Output Power



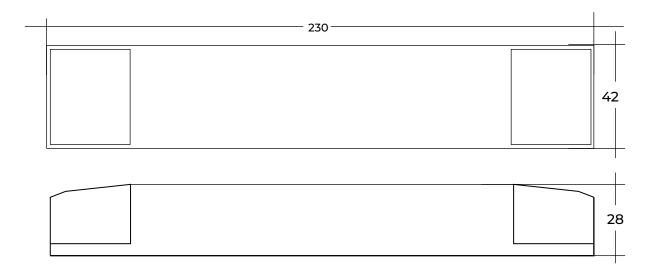
Error expected. We reserve the right to make alternations in the interest of improving our products.



Housing Properties

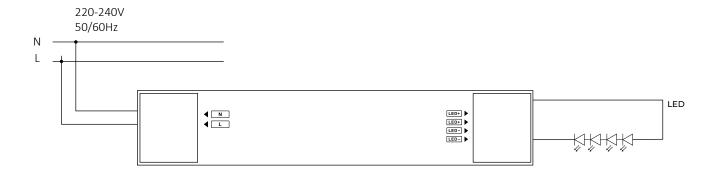
Degree of protection	IP20
Casing	Polycarbonate, White

Housing Dimensions



Dimensions	240*42*28mm
Tolerance	± 1mm
Weight	300 gm

Wiring Diagram



4





Expected Lifetime

Lifetime	50,000 hours
Warranty	5 years

Logistics Data

Model No.	US1001HI244170F
Weight (gm)	300 gm