



# COLOSSUS<sup>®</sup>

*Excellence inside*

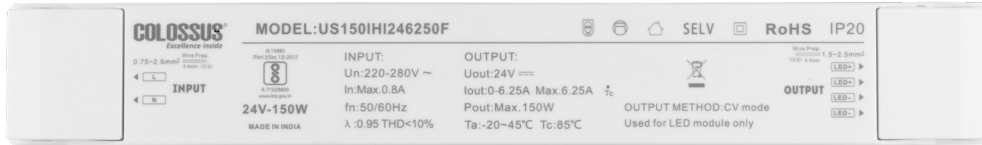
**DATASHEET**

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**US150IHI246250F**



Version: 01



\*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 >91%(@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 @  $t_c \leq t_{cmax}$

### 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
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
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#### Power Factor

240V(@ Full Load)	>0.95
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#### Efficiency(typ.)

Full Load	>91%
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#### Protections

Open Circuit	<24VDC
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	0.75mm <sup>2</sup> - 2.5mm <sup>2</sup>
	8mm - 9mm

#### Wire Lengths

Max. Wire Length To Led Module	<1m
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### Protection

Surge	2kV
High Voltage	300V

### Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
US150IH1246250F	-20°C... +45°C	Max + 85°C

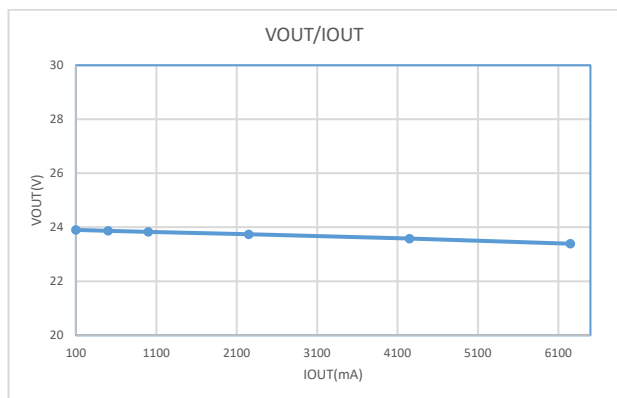
### Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
US150IH1246250F	800mA	170W	<10%	>0.95	>91%	6.25A	24V	150W

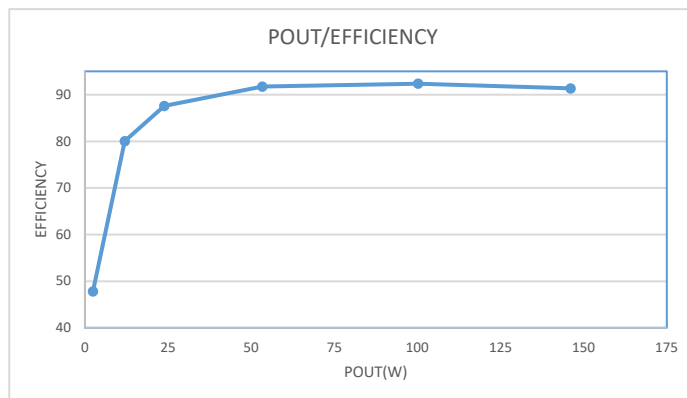
All specifications with 240 VAC are nominal operation and 100% load.

### Graphs

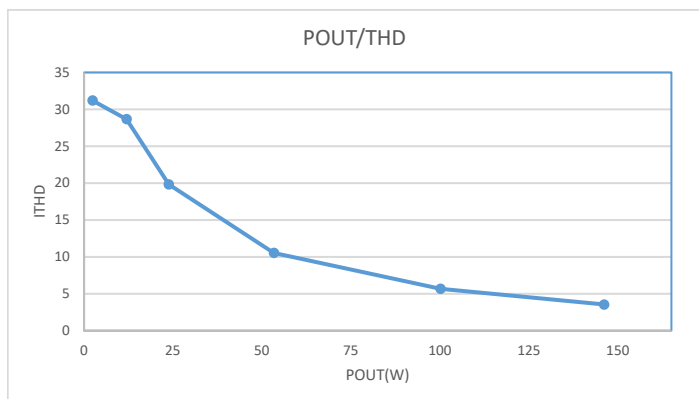
Operating Window



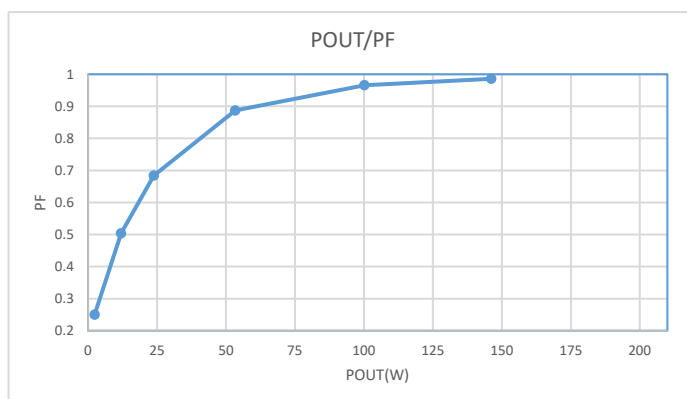
Efficiency Vs Output Power



THD Vs Output Power



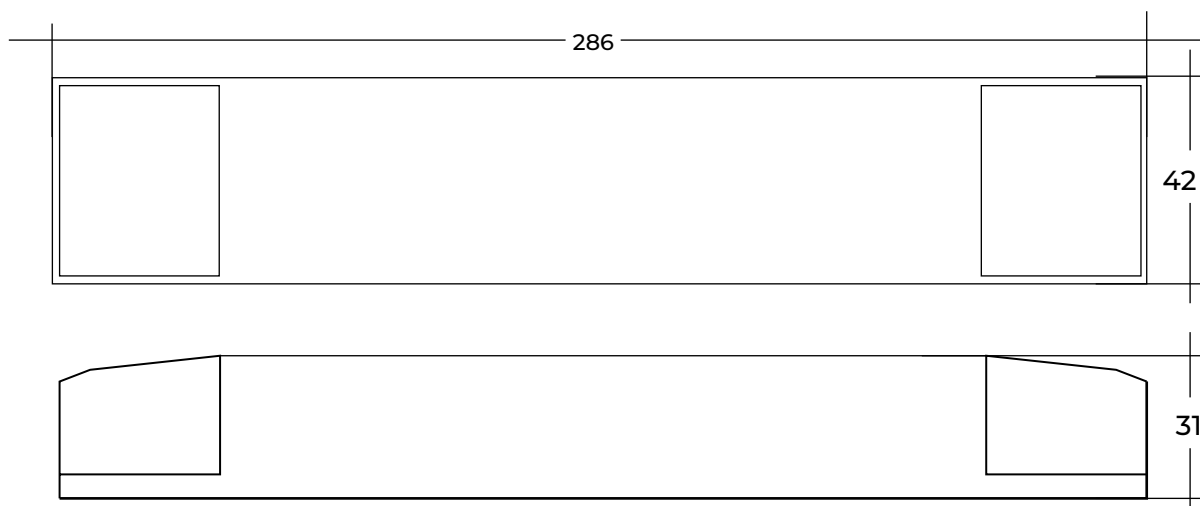
Power Factor Vs Output Power



### Housing Properties

Degree of protection	IP20
Casing	Polycarbonate, White

### Housing Dimensions



Dimensions	286*42*31mm
Tolerance	± 1mm
Weight	330 gm

### Wiring Diagram



Expected Lifetime

Lifetime	50,000 hours
Warranty	5 years

Logistics Data

Model No.	US150IH1246250F
Weight (gm)	330 gm