# **COLOSSUS** Excellence inside

# DATASHEET

SS32IHI40800W

Version: 01

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INPUT		S <sup>™</sup> Model No. SS32IHI40800W Uou⊤ : 30-40VDC	
• N	IIN : 0.15 A	Ιουτ : 800mA	LED-
$\sim$	P <sub>IN max</sub> : 36W	Роит : 32W	[BLACK]
• L	λ > 0.98	UOUT max : 40VDC	[RED]
	ta : 0+ 50°C	tc <sub>max</sub> : 75°C	•tc IS 15885 (Part 2/Sec 13):201
		iver For LED Modules	8



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



# Product Description

- Constant current driver for led modules
- Input Voltage 240VAC
- High efficiency >90% (@100% Load)
- Power factor >0.98, THD<10%(@100%Load)
- For use in combination with luminaries of protection class II.
- $\cdot \ {\sf Protection} \ {\sf against} \ {\sf Abnormal} \ {\sf Operating} \ {\sf Conditions} \ {\sf Like} \ {\sf Input} \ {\sf Over} \ {\sf Voltage} \ {\sf Protection}, \ {\sf Under}$
- Voltage Protection, Short Circuit Protection, Open Voltage Protection, Overload Protection.
- Surge protection 4KV
- Nominal Life Time: 30,000 hours @ tc  $\leq$  tc<sub>max</sub>

# Functions

Application oriented operation for maximum compatibility

# Applications



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







## – 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)
Mains Voltage Withstanding Capacity	440VAC for 2hrs (with overvoltage shutdown)
Mains voltage withstanding capacity	HOVACIONZINS (WITH OVER VOITage Shutdown)
Output Data	
Constant current	
Output Current Tolerance	±5%
Max Starting Time	<1s
Interface And Dimming Operation	
Dimming Interface	None
Power Factor	
240V(@ Full Load)	>0.98
Efficiency(typ.)	
Full Load	>90%
Protections	
Open Circuit	<50VDC
Output Short Circuit Operation	YES
Input Over Voltage Cutoff	290VAC ±10%
Input Under Voltage Cutoff	100VAC ±10%
Connection Wires	
	Solid or Stranded Wire
Type Wire Cross Section	0.5mm <sup>2</sup> - 1.5mm <sup>2</sup>
	150mm (±15mm)
Wire Length	
Wire Lengths	
Max. Wire Length To Led Module	<1m

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CORE STATIC SERIES

#### Protection

Surge	4kV
High Voltage	440V

## Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
SS32IHI40800W	0°C +50°C	Max + 75°C

# Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Effici- ency	Output Current	Output Voltage	Output Power (max)
SS32IHI40800W	150mA	36W	<10%	>0.98	>90%	800mA	30-40V	32W

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

### Graphs

45.00

40.00

(V) 35.00 30.00

25.00

20.00

700

720

740

760

780

IOUT(mA)

800

820

840

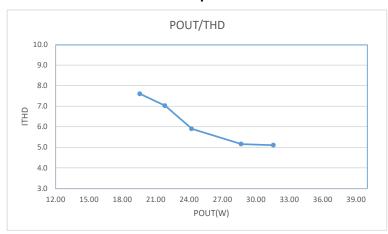
#### **Operating Window**

VOUT/IOUT

#### POUT/EFFICIENCY 99 97 95 EFFICIENCY 93 91 89 87 85 27.00 39.00 15.00 18.00 21.00 24.00 30.00 33.00 36.00 POUT(W)

**Efficiency Vs Output Power** 

#### THD Vs Output Power



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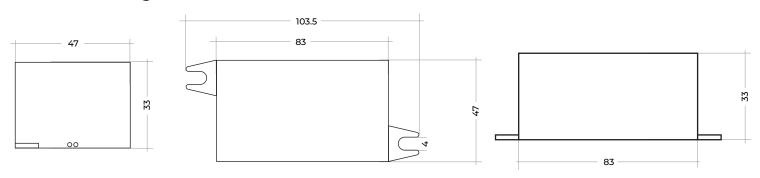


CORE STATIC SERIES

## Housing Properties

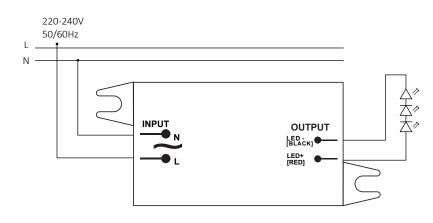
Degree of protection	IP20	
Casing	Polycarbonate, White	

# Housing Dimensions



Dimensions	103x47x33mm
Tolerance	± lmm
Weight	70 gm

# Wiring Diagrams



## **Expected Lifetime**

Lifetime	30,000 hours	
Warranty	2 years	

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Model No.	SS32IHI40800W	
Weight (gm)	70 gm	

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