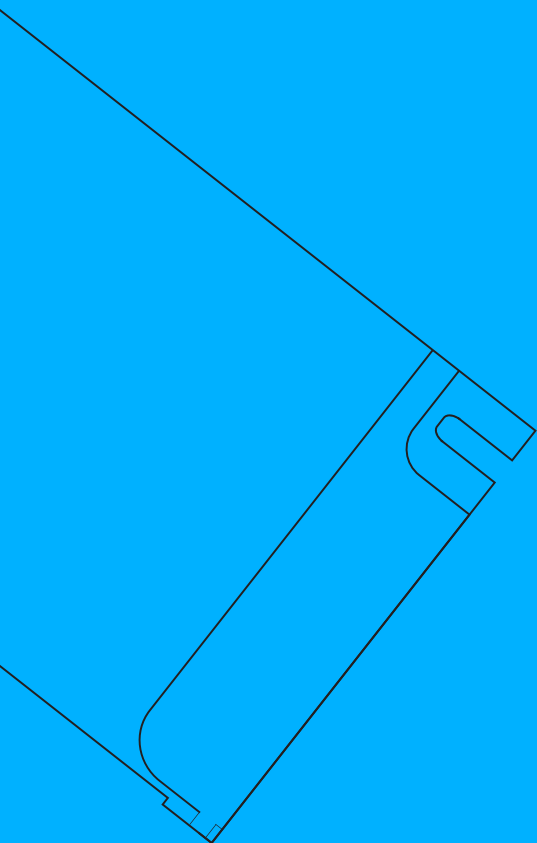


COLOSSUSTM

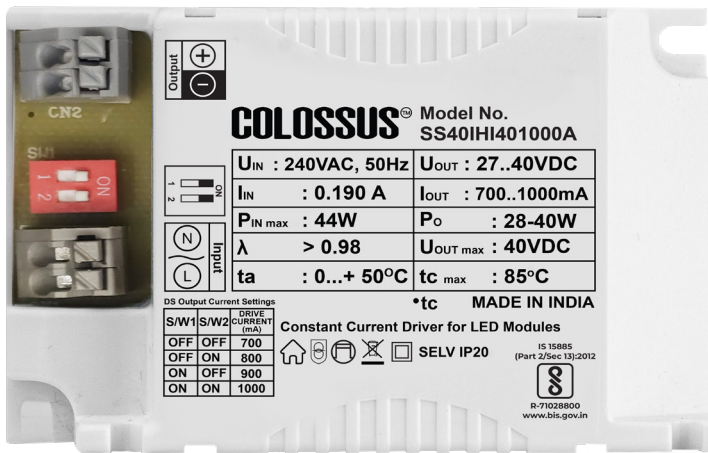
Excellence inside

DATASHEET

SS40IH1401000A



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 >90%(@100% Load)
- Power factor >0.98, THD<10%(@100%Load)
- For use in combination with luminaries of protection class II.
- Protection against Abnormal Operating Conditions Like Input Over Voltage Protection, Under Voltage Protection, Short Circuit Protection, Open Voltage Protection, Overload Protection.
- Surge protection 4KV
- 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
Total Harmonic Distortion (THD)	<10% (@Full Load)
Mains Voltage Withstanding Capacity	440VAC for 2hrs (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)	>0.98
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Efficiency(typ.)

Full Load	>90%
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Protections

Open Circuit	<50VDC
Output Short Circuit Operation	YES
Input Over Voltage Cutoff	300VAC ±10%
Input Under Voltage Cutoff	100VAC ±10%

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	4kV
High Voltage	440V

Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
SS40IHI401000A	0°C... +50°C	Max + 85°C

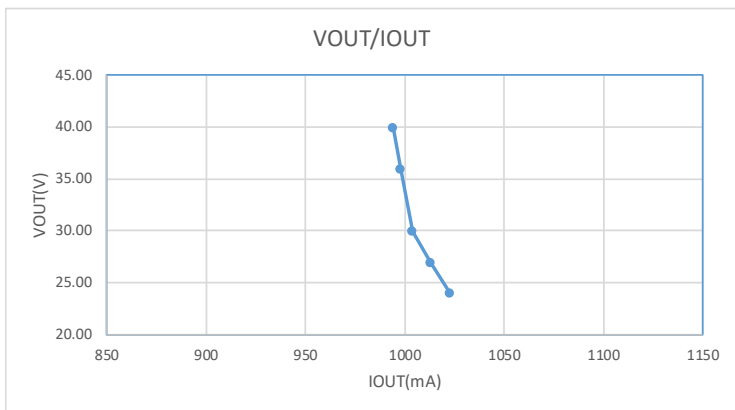
Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
SS40IHI401000A	190mA	44W	<10%	>0.98	>90%	700-1000mA	27-40V	40W

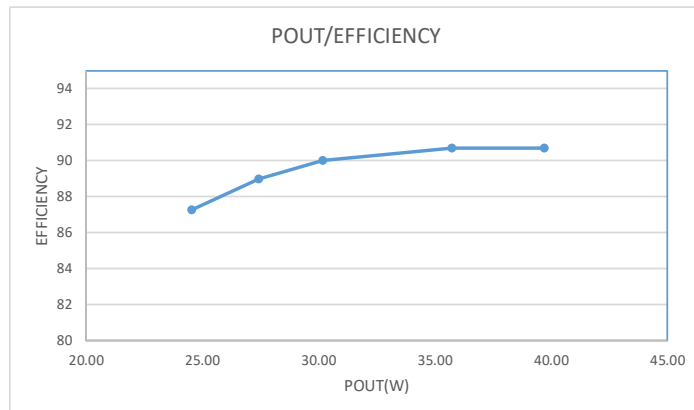
All specifications with 240 VAC are nominal operation and 100% load.

Graphs

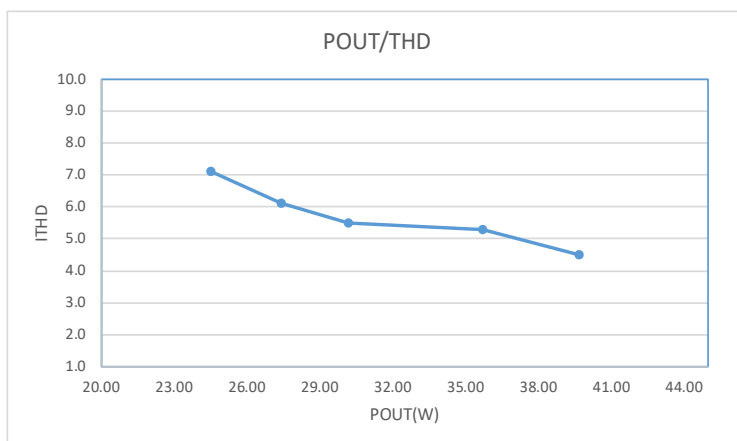
Operating Window



Efficiency Vs Output Power



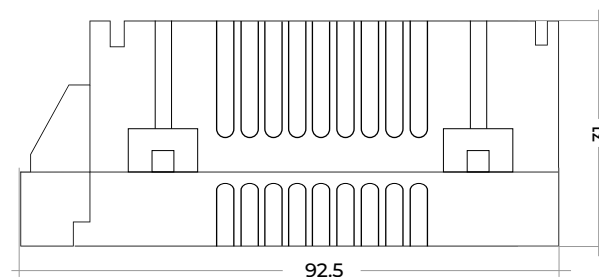
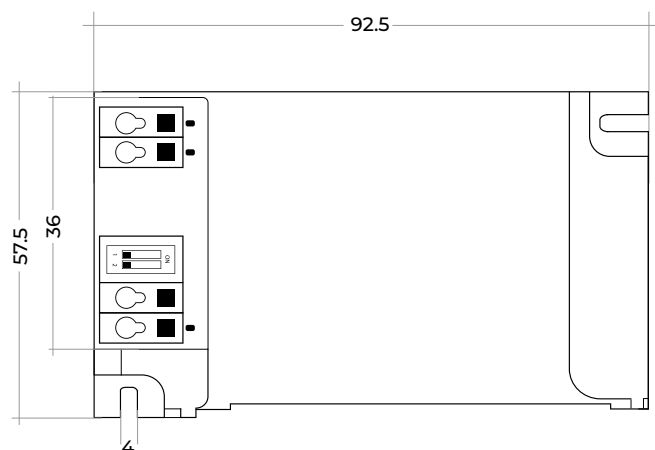
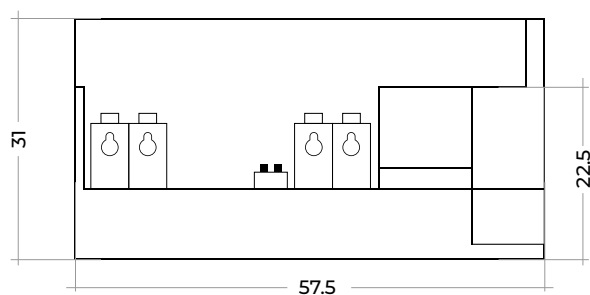
THD Vs Output Power



Housing Properties

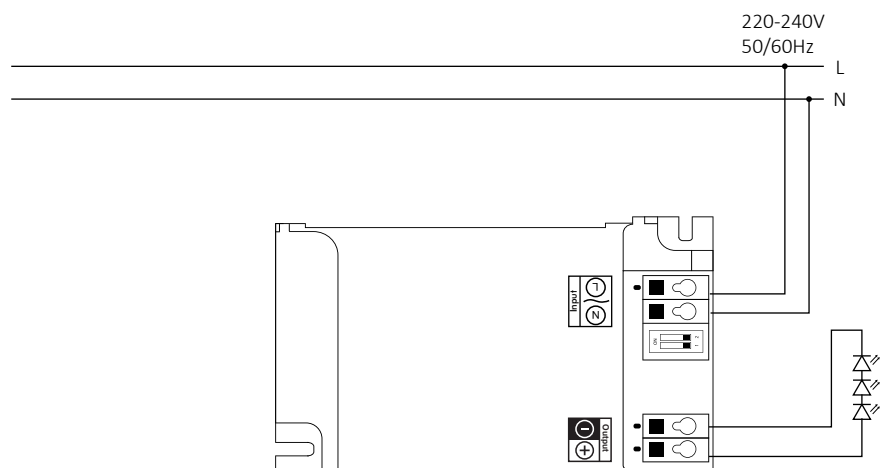
Degree of protection	IP20
Casing	Polycarbonate, White

Housing Dimensions

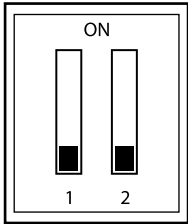


Dimensions	92.5x57.5x31 mm
Tolerance	± 1mm
Weight	80 gm

Wiring Diagrams



Switch Configuration



SW1	SW2	Current(mA)
OFF	OFF	700
OFF	ON	800
ON	OFF	900
ON	ON	1000

SW1	SW 2	Input Voltage (V)	Input Current (mA)	Input Power (P)	THD	Power Factor	Efficiency	Output Current (mA)	Output Voltage (V)	Output Power (P)
OFF	OFF	240	132.40	29.73	6.1	0.98	90	709	38.68	26.78
OFF	ON	240	150.90	34.04	5.0	0.99	90	801	38.68	30.71
ON	OFF	240	172.20	38.89	4.8	0.99	90	898	39.16	34.94
ON	ON	240	183.10	43.84	4.5	0.99	91	994	39.54	39.68

*Only for reference with respect to DIP Switch.

Expected Lifetime

Lifetime	30,000 hours
Warranty	2 years

Logistics Data

Model No.	SS40IHI401000A
Weight (gm)	80 gm