

COLOSSUS Excellence inside

DATASHEET

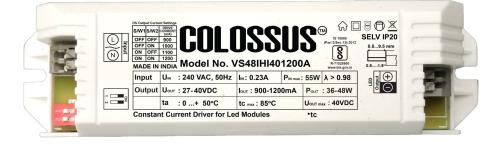
VS48IHI401200A

Version: 01

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https://colossusworld.com/

*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 >88%(@100% Load)
- Power Factor >0.98, THD<10%
- \cdot 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
- \cdot Nominal Life Time: 30,000 hours @ tc \leq tc max

- Functions

Application oriented operation for maximum compatibility

Applications

Shops





Office

House

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

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- Technical Data

Mains Voltage Supply	
Rated Voltage Range	240VAC
Rated Frequency	50/60 Hz
Max. Admissible Input Voltage Range(AC)	100-265VAC
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	
Interface And Dimming Operation	
Dimming Interface	None
Power Factor	
240V(@ Full Load)	>0.98

Efficiency(typ.)	
Full Load	>88%

Protections	
Open Circuit	<53VDC
Output Short Circuit Operation	YES
Input Over Voltage Cutoff	310VAC ±10%
Input Under Voltage Cutoff	100VAC ±10%
Connection Terminals	For solid Or stranded wire
Туре	Push Terminal
Wire Cross Section	0.5mm² - 1.5mm²
Wire Stripping Length	8.5mm - 9.5mm
Wire Lengths	

Max. Wire Length To Led Module

<1m

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CORE FLEX SERIES

Protection

Surge	4kV
High Voltage	440V

Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
VS48IHI401200A	0°C +50°C	Max + 85°C

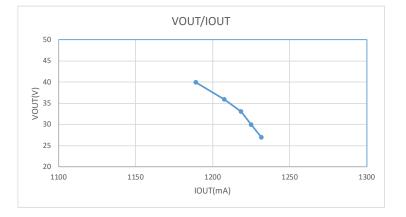
Product Specifications

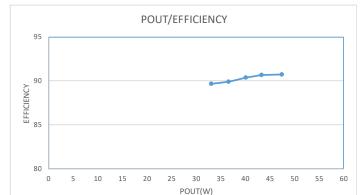
Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Effici- ency	Output Current	Output Voltage	Output Power (max)
VS48IHI401200A	230mA	55W	<10%	>0.98	>88%	900-1200mA	27-40V	48W

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

Graphs

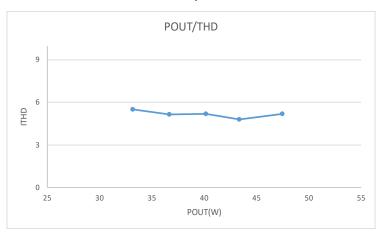
Operating Window





Efficiency Vs Output Power

THD Vs Output Power



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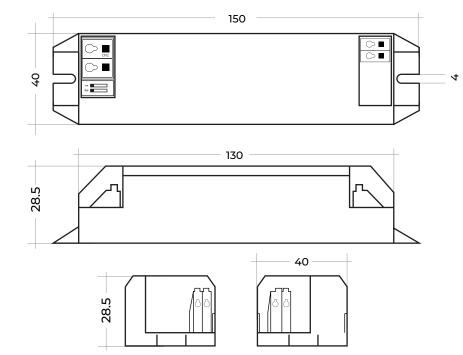




Housing Properties

Degree Of Protection	IP20
Casing	Polycarbonate, White

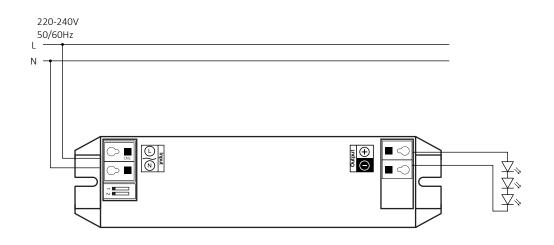
Housing Dimensions



Dimensions (LxWxH)	150x40x28.5 mm
Tolerance	± lmm
Weight	110 gm

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- Wiring Diagrams



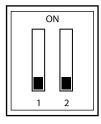
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— Switch Configuration



SW1	SW2	Current(mA)
OFF	OFF	900
OFF	ON	1000
ON	OFF	1100
ON	ON	1200

SW1	SW 2	Input Voltage (V)	Input Current (mA)	Input Power (P)	THD	Power Factor	Effici- ency	Output Current (mA)	Output Voltage (V)	Output Power (P)
OFF	OFF	240	167	39	5	0.98	91	904	40	36
OFF	ON	240	187	44	6	0.99	91	1011	40	40
ON	OFF	240	206	48	4	0.99	91	1116	40	45
ON	ON	240	224	53	4	0.99	91	1216	40	49

*Only for reference with respect to DIP Switch.

Expected Lifetime

Lifetime	30,000 hours
Warranty	2 years



Model No.	VS48IHI401200A
Weight (gm)	110 gm

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