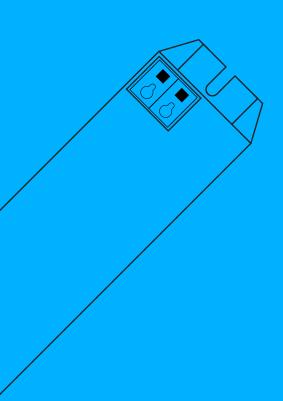


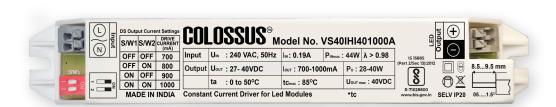
GOLOSSUS Excellence inside

DATASHEET

VS401HI401000A









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 @ tc ≤ tc_{max}

Functions

Application oriented operation for maximum compatibility

Applications







Office

Shops

House



— Technical Data

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
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	300VAC ±10%
Input Under Voltage Cutoff	100VAC ±10%
Connection Terminals	For solid Or stranded wire
Type	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



Protection

Surge	4kV
High Voltage	440V

Temperatures (Operation)

Model No.	Ambient(ta)	Case (tc)
VS40IHI401000A	0°C +50°C	Max + 85°C

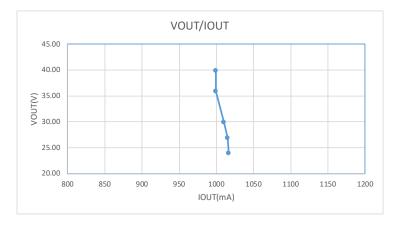
Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Effici- ency	Output Current	Output Voltage	Output Power (max)
VS40IHI401000A	190mA	44W	<10%	>0.98	>90%	700-1000mA	27-40V	40W

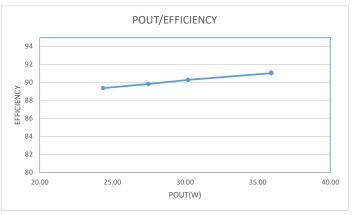
All specifications with 240 VAC are nominal operation and 100% load.

—— Graphs

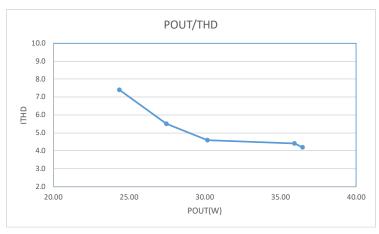
Operating Window



Efficiency Vs Output Power



THD Vs Output Power



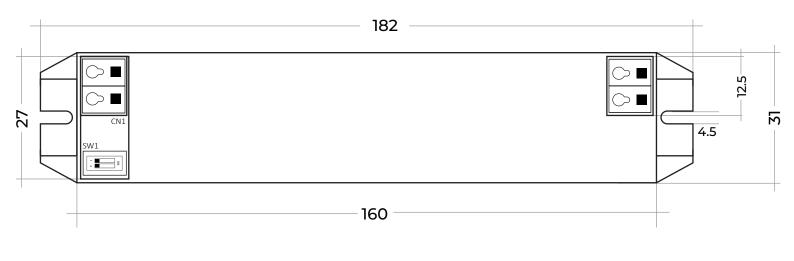
Error expected. We reserve the right to make alternations in the interest of improving our products.

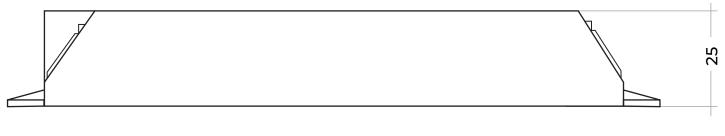


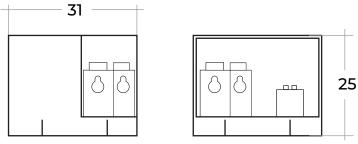
Housing Properties

Degree of protection	IP20
Casing	Polycarbonate, White

Housing Dimensions



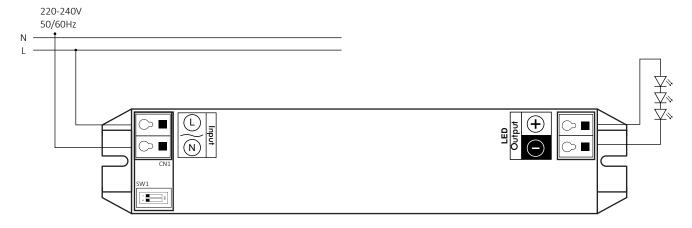




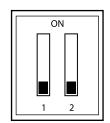
Dimensions	182x31x25mm
Tolerance	± 1mm
Weight	110 gm



- 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	Effici- ency	Output Current (mA)	Output Voltage (V)	Output Power (P)
OFF	OFF	240	128.10	29.22	5.7	0.99	90	702	38.68	26.36
OFF	ON	240	148.23	33.85	4.8	0.99	90	805	38.68	30.55
ON	OFF	240	170.27	38.59	4.7	0.99	90	898	39.16	34.75
ON	ON	240	190.40	43.38	4.0	0.99	90	991	39.16	38.82

^{*}Only for reference with respect to DIP Switch.

Expected Lifetime

Lifetime	30,000 hours
Warranty	2 years

Logistics Data

Model No.	VS401HI401000A
Weight (gm)	110 gm