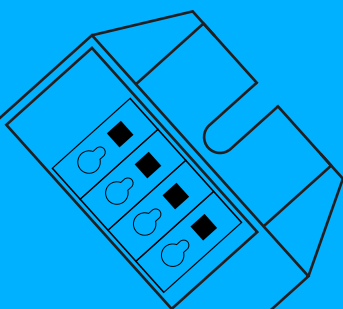


COLOSSUSTM

Excellence inside

DATASHEET

VS24IHIBLECCT40600A



POWERED BY  **plexilent**
simplifying life



Version: 01



<https://colossusworld.com/>

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

Approval Markings:



Product Description

- Smart Dimmable Constant Current Driver For Led Modules
- Input Voltage 240VAC
- High Efficiency >88%(@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
- Compatible with BLE, BLE MESH & ZIGBEE Module
- Nominal Life Time: 30,000 hours @ $t_c \leq t_{c_{max}}$

Functions

- Seamless Control
- Adjustable output current with Dip Switch
- CCT & Dimming Control
- Application oriented operation for maximum compatibility

Benefits

- 1-100% Deep Dimming
- Low Standby Power
- Smooth Transition over wide range of CCT & Intensity

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. Ripple Output Current(With Led Load)	<30%
Max Starting Time	<1s

Interface And Dimming Operation

Dimming Interface	PWM
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Power Factor

240V(@ Full Load)	>0.98
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Efficiency(typ.)

Full Load	>88%
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Protections

Open Circuit	<55VDC
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	0.5mm ² - 1.5mm ²
Wire Stripping Length	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)
VS24IHIBLECCT40600A	0°C... +50°C	Max + 75°C

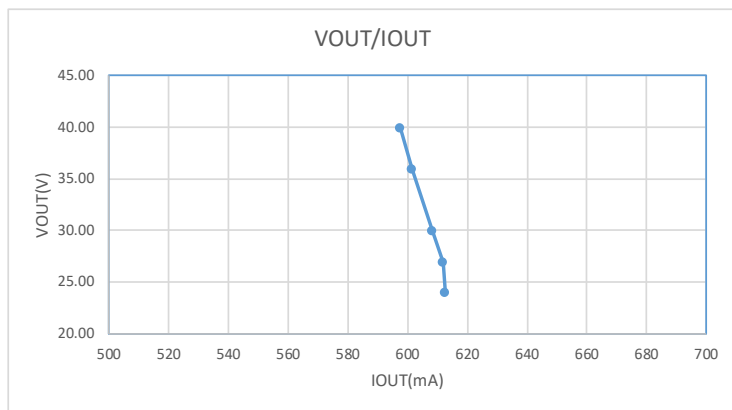
Product Specifications

Model No.	Input Current (max)	Input Power (max)	THD	Power Factor	Efficiency	Output Current	Output Voltage	Output Power (max)
VS24IHIBLECCT40600A	120mA	28W	<10%	>0.98	>88%	300-600mA	27-40V	24W

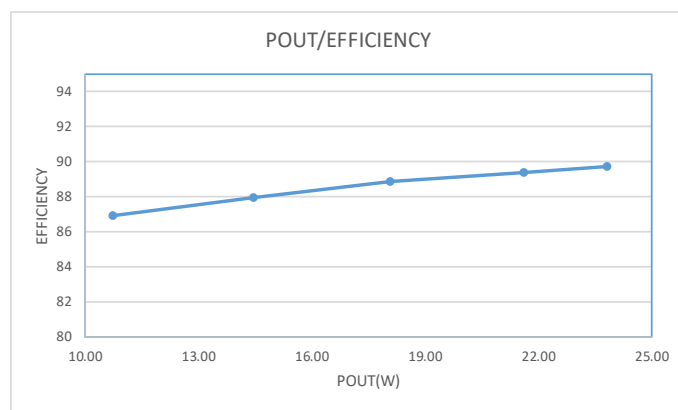
All specifications with 240 VAC are nominal operation and 100% load.

Graphs

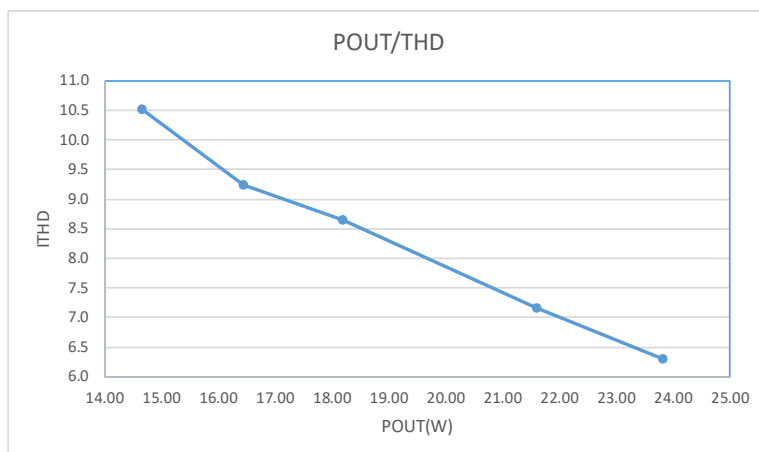
Operating Window



Efficiency Vs Output Power



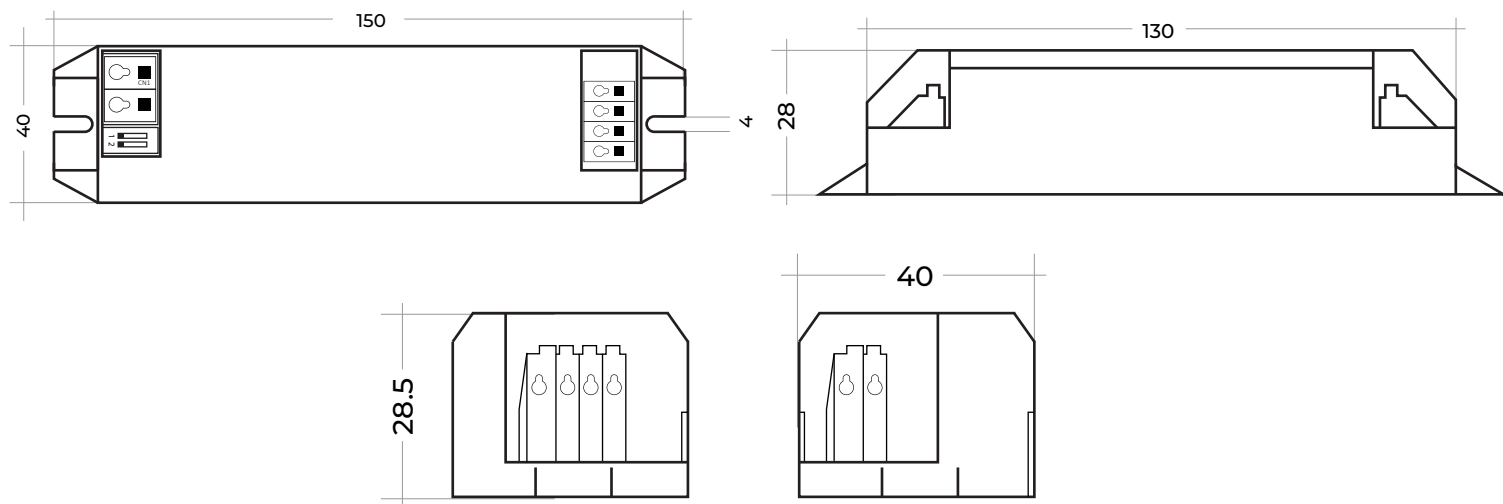
THD Vs Output Power



Housing Properties

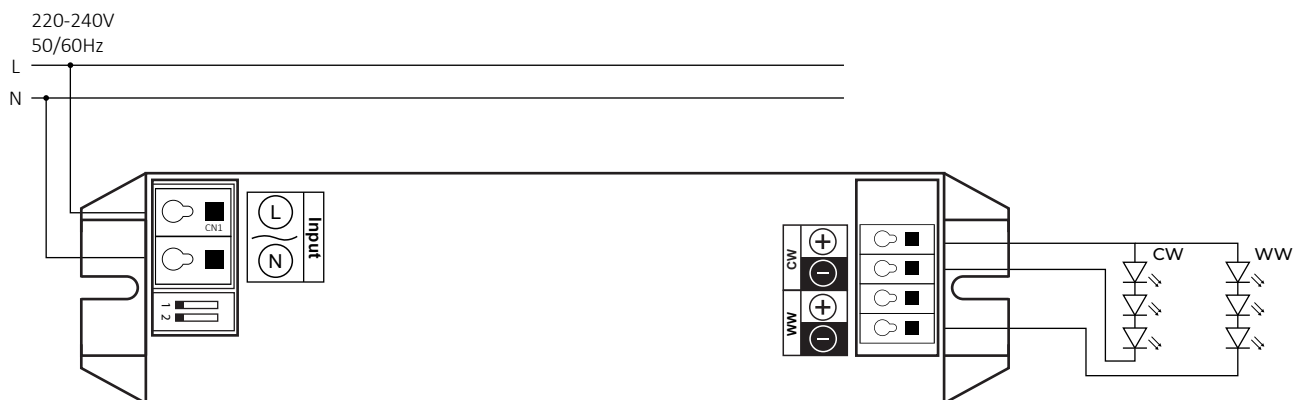
Degree of protection	IP20
Casing	Polycarbonate, White

Housing Dimensions

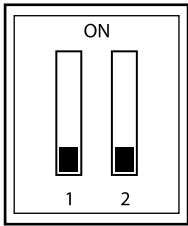


Dimensions (LxWxH)	150x40x28.5 mm
Tolerance	± 1mm
Weight	110 gm

Wiring Diagrams



Switch Configuration



SW1	SW2	Current(mA)
OFF	OFF	300
OFF	ON	400
ON	OFF	500
ON	ON	600

SW 1	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	60.06	13.52	7.92	0.96	88	296	39.85	11.81
OFF	ON	240	78.80	17.92	6.80	0.98	89	400	39.87	15.94
ON	OFF	240	97.36	22.20	6.77	0.98	90	501	39.87	19.95
ON	ON	240	116.40	26.53	6.29	0.98	90	600	39.87	23.91

*Only for reference with respect to DIP Switch.

Expected Lifetime

Lifetime	30,000 hours
Warranty	2 years

Logistics Data

Model No.	VS24IHIBLECCT40600A
Weight (gm)	110 gm