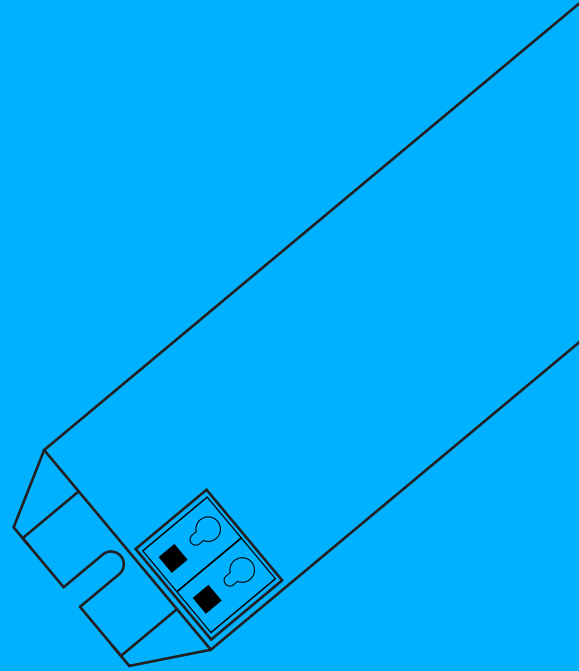


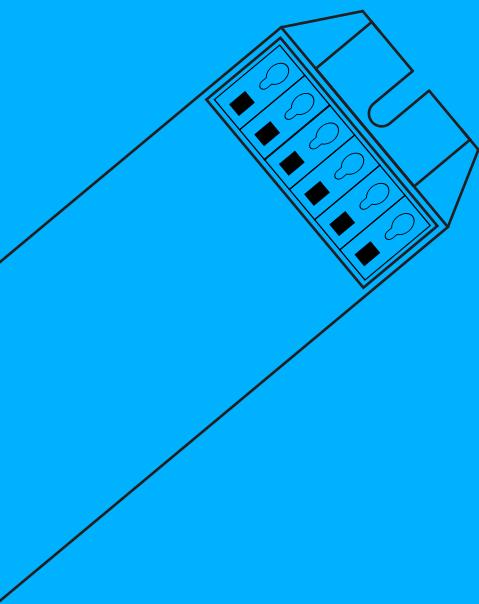


# COLOSSUS<sup>TM</sup>

*Excellence inside*

## DATASHEET

**VS30ISIBLE5CH122500F**



POWERED BY  **plexilent** |  **tuya**<sup>®</sup>  
simplifying life

Version: 01

[www.colossusworld.com](http://www.colossusworld.com)



<https://colossusworld.com/>

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

### Approval Markings:



### Product Description

- CV/CC Driver for led modules
- Input Voltage 240VAC
- High efficiency >80%(@100% Load)
- Power factor >0.50 (@100%Load)
- For use in combination with luminaries of protection class II.
- Protection against Abnormal Operating Conditions Like Open Voltage Protection, Overload Protection.
- Surge protection 2.5KV
- Nominal Life Time: 30,000 hours @  $t_c \leq t_{c\max}$

### Functions

- Seamless Control
- Upto 5 Channel Control
- RGB, CCT (CW/WW) & Dimming Control
- Application oriented operation for maximum compatibility

### Benefits

- 1-100% Deep Dimming
- Low Standby Power
- Smooth Transition over 16 million colors

### 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      |
| Mains Voltage Withstanding Capacity     | 320VAC for 2hrs |

#### Output Data

##### Constant current

|                          |     |
|--------------------------|-----|
| Output Current Tolerance | ±5% |
| Max Starting Time        | <1s |

#### Interface And Dimming Operation

|                   |     |
|-------------------|-----|
| Dimming Interface | PWM |
|-------------------|-----|

#### Power Factor

|                   |       |
|-------------------|-------|
| 240V(@ Full Load) | >0.50 |
|-------------------|-------|

#### Efficiency(typ.)

|           |      |
|-----------|------|
| Full Load | >80% |
|-----------|------|

#### Protections

|                                |        |
|--------------------------------|--------|
| Open Circuit                   | <13VDC |
| Output Short Circuit Operation | None   |
| Input Over Voltage Cutoff      | None   |
| Input Under Voltage Cutoff     | None   |

#### Connection Terminals

|                       |                                         |
|-----------------------|-----------------------------------------|
| Type                  | For solid Or stranded wire              |
| Wire Cross Section    | Push Terminal                           |
| Wire Stripping Length | 0.5mm <sup>2</sup> - 1.5mm <sup>2</sup> |
|                       | 8.5mm - 9.5mm                           |

#### Wire Lengths

|                                |     |
|--------------------------------|-----|
| Max. Wire Length To Led Module | <1m |
|--------------------------------|-----|

### Protection

|              |       |
|--------------|-------|
| Surge        | 2.5kV |
| High Voltage | 320V  |

### Temperatures (Operation)

| Model No.            | Ambient(ta)  | Case (tc)  |
|----------------------|--------------|------------|
| VS30ISIBLE5CH122500F | 0°C... +50°C | Max + 85°C |

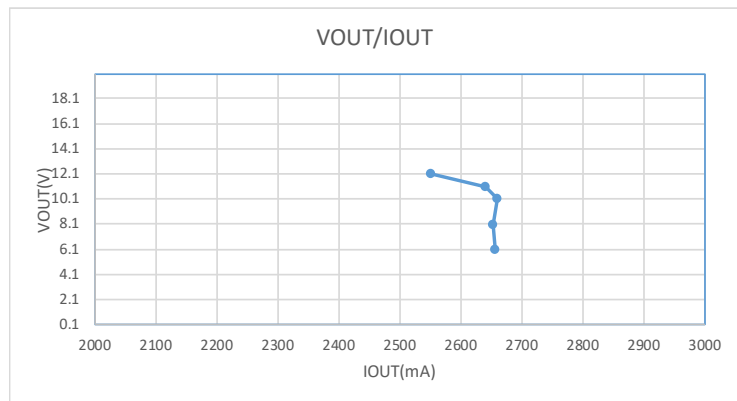
### Product Specifications

| Model No.            | Input Current (max) | Input Power (max) | THD | Power Factor | Efficiency | Output Current | Output Voltage | Output Power (max) |
|----------------------|---------------------|-------------------|-----|--------------|------------|----------------|----------------|--------------------|
| VS30ISIBLE5CH122500F | 260mA               | 36W               | N.A | >0.50        | >80%       | 2500mA         | 12V            | 30W                |

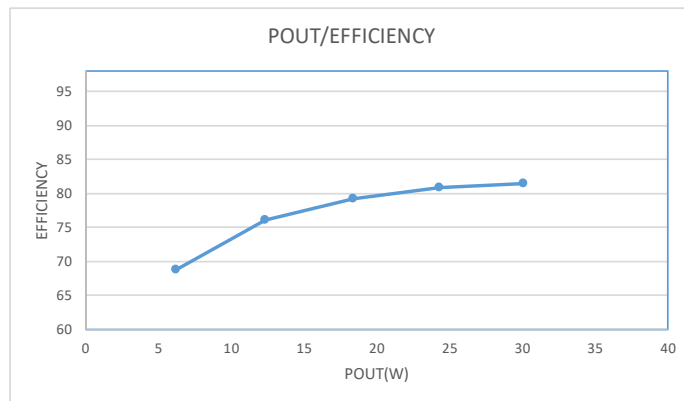
All specifications with 240 VAC are nominal operation and 100% load.

### Graphs

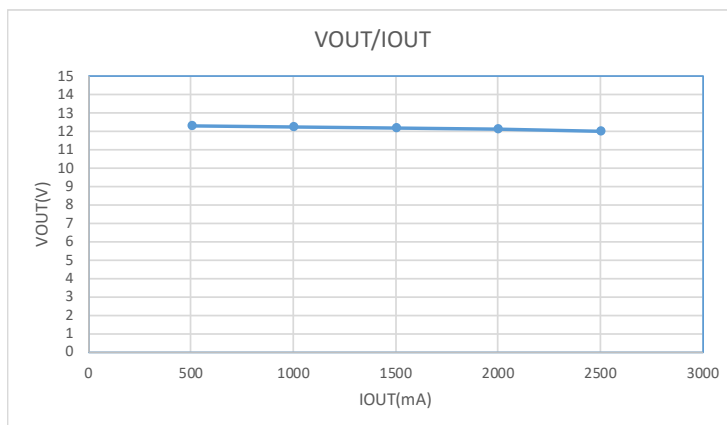
Operating Window (CV)



Efficiency Vs Output Power



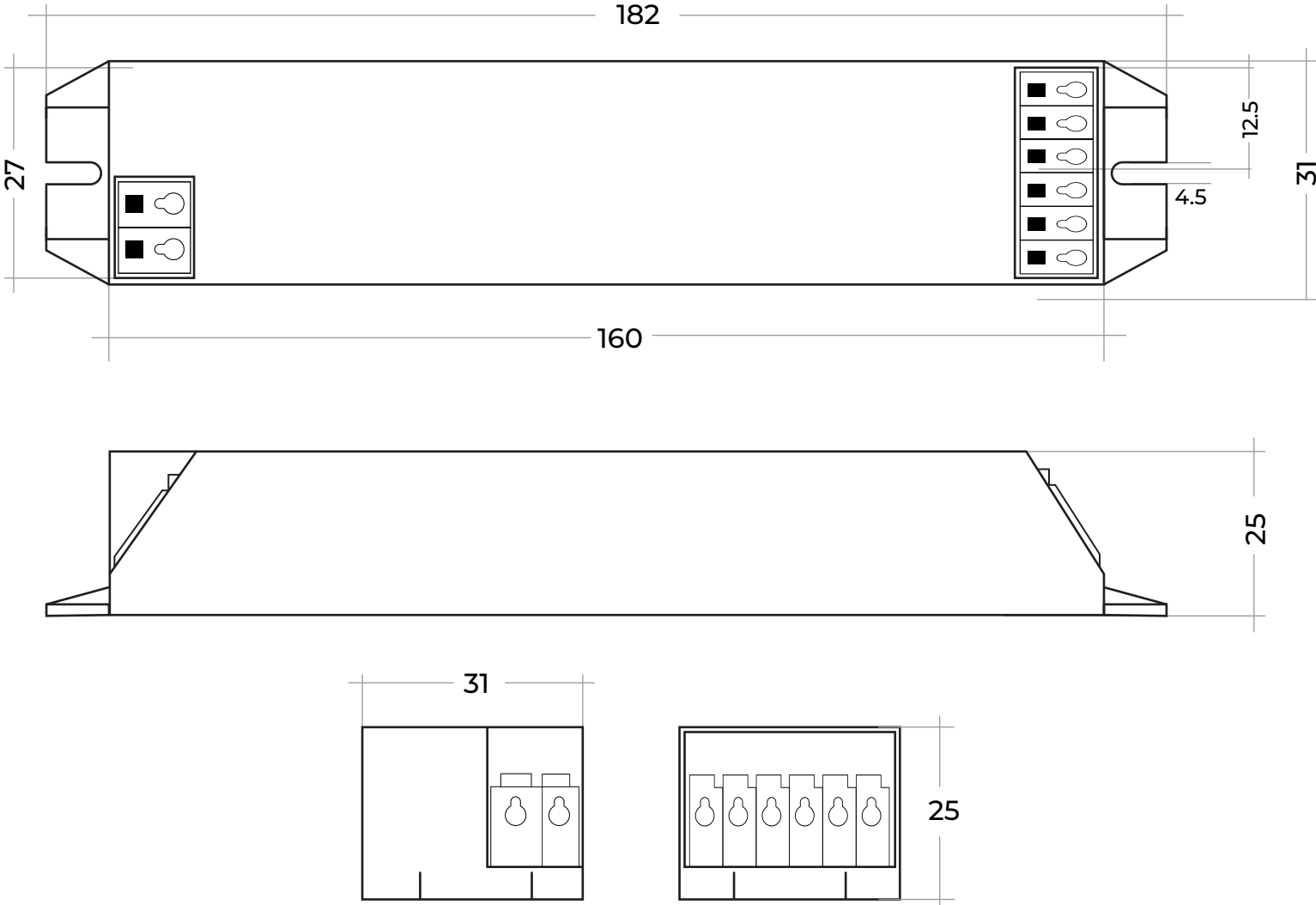
Operating Window (CC)



Housing Properties

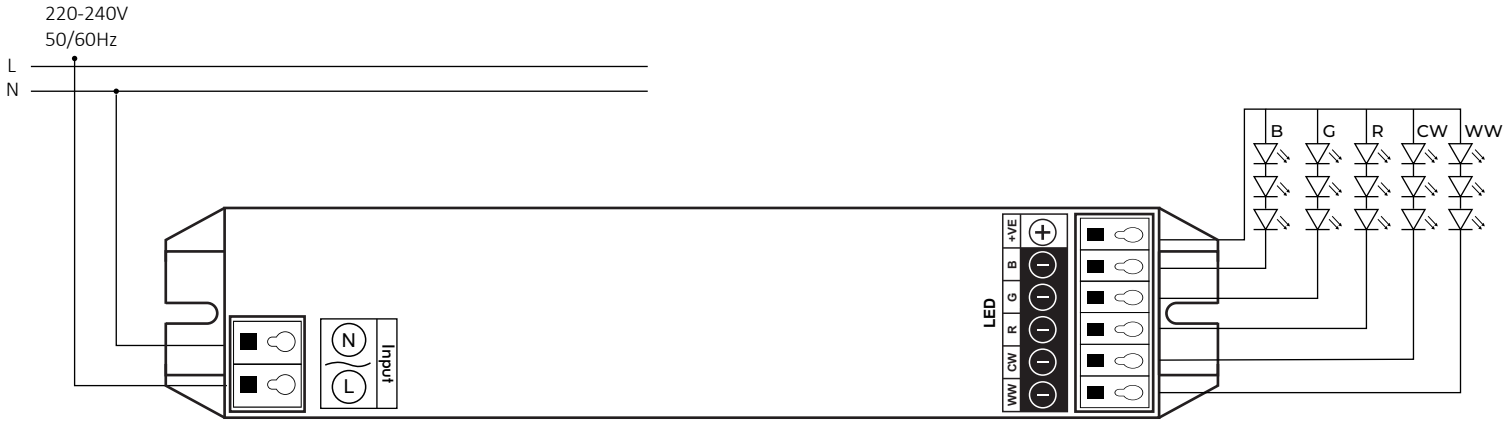
|                      |                      |
|----------------------|----------------------|
| Degree of protection | IP20                 |
| Casing               | Polycarbonate, White |

Housing Dimensions



|            |             |
|------------|-------------|
| Dimensions | 182x31x25mm |
| Tolerance  | ± 1mm       |
| Weight     | 120 gm      |

Wiring Diagrams



Expected Lifetime

|          |              |
|----------|--------------|
| Lifetime | 30,000 hours |
| Warranty | 2 years      |

Logistics Data

|             |                      |
|-------------|----------------------|
| Model No.   | VS30ISIBLE5CH122500F |
| Weight (gm) | 120 gm               |