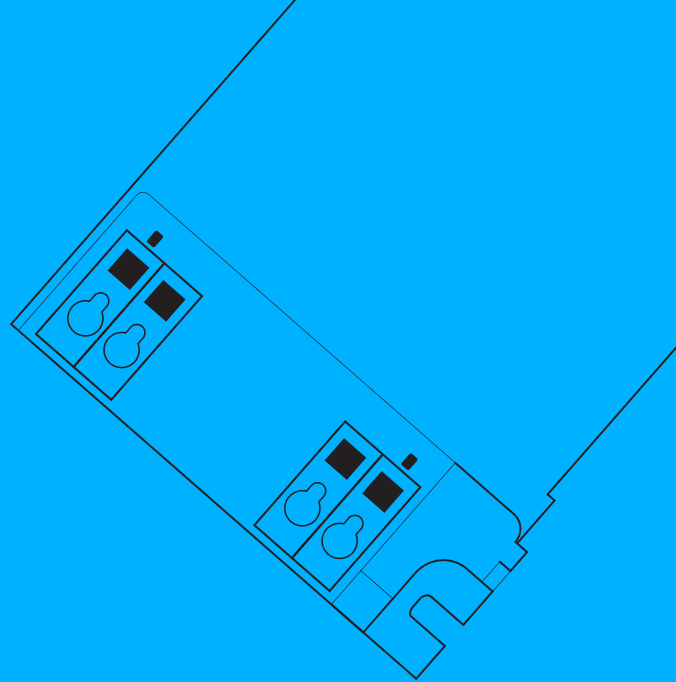




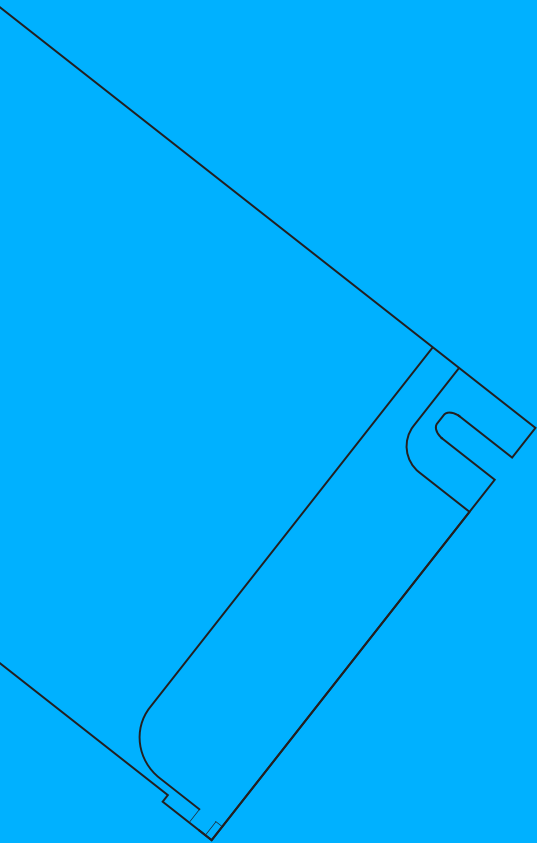
# COLOSSUS<sup>TM</sup>

*Excellence inside*

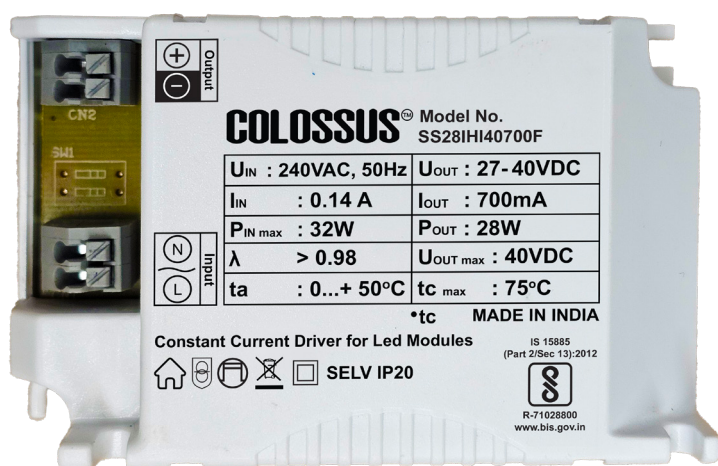
**DATASHEET**

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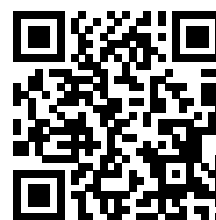
**SS28IHI40700F**



Version: 01



WEBSITE



<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<sub>c</sub> ≤ t<sub>c</sub> 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 |
|-------------------|------|

#### 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      | 290VAC ±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 <sup>2</sup> - 1.5mm <sup>2</sup> |
|                       | 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)  |
|---------------|--------------|------------|
| SS28IHI40700F | 0°C... +50°C | Max + 75°C |

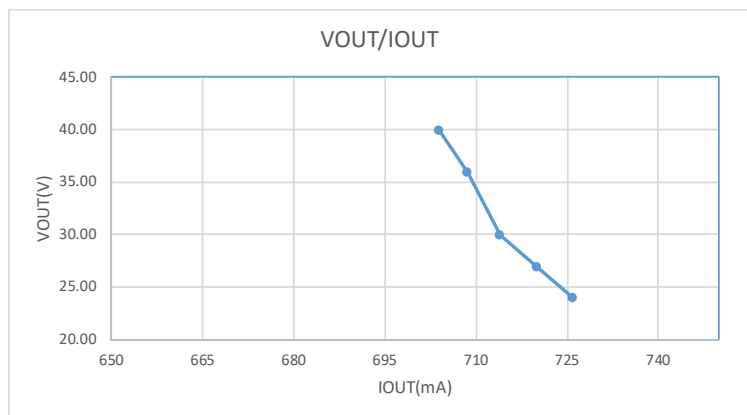
### Product Specifications

| Model No.     | Input Current (max) | Input Power (max) | THD  | Power Factor | Efficiency | Output Current | Output Voltage | Output Power (max) |
|---------------|---------------------|-------------------|------|--------------|------------|----------------|----------------|--------------------|
| SS28IHI40700F | 140mA               | 32W               | <10% | >0.98        | >90%       | 700mA          | 27-40V         | 28W                |

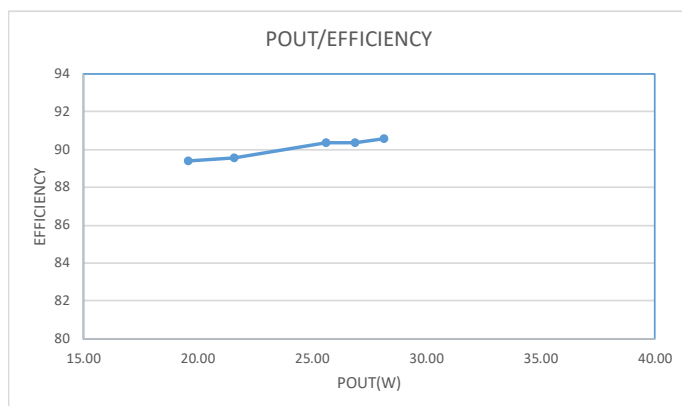
All specifications with 240 VAC are nominal operation and 100% load.

### Graphs

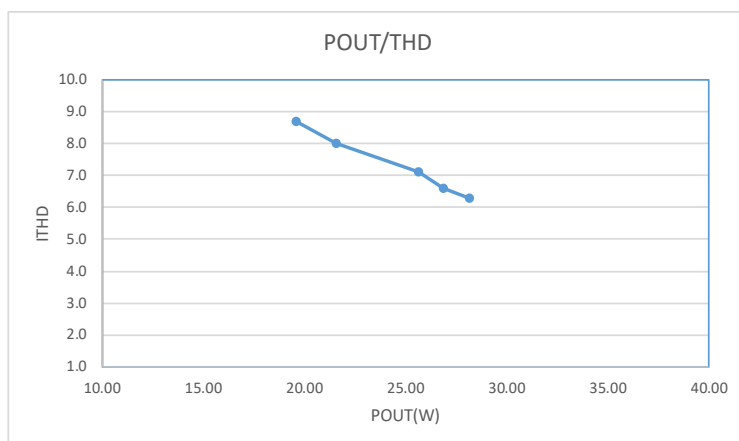
Operating Window



Efficiency Vs Output Power



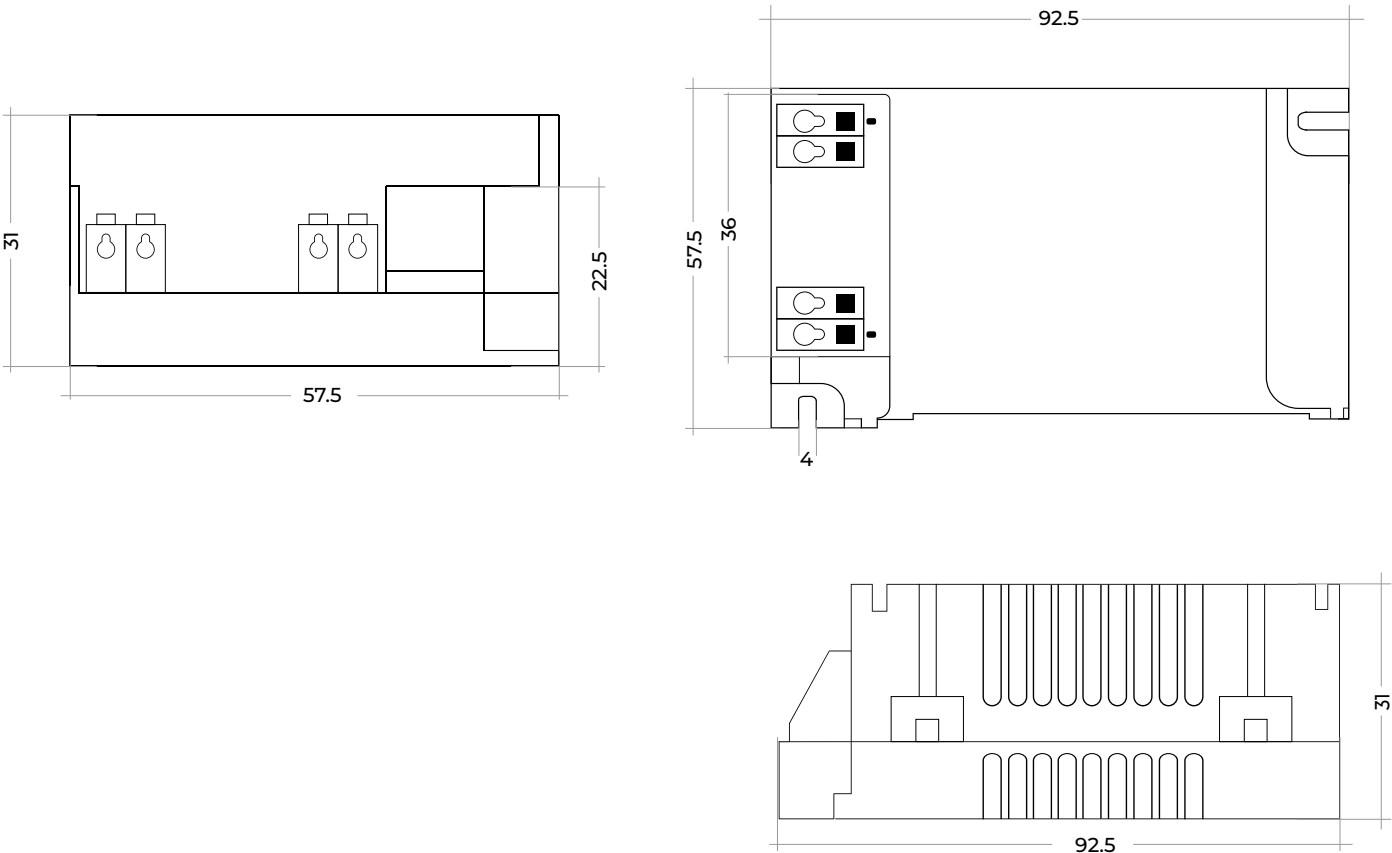
THD Vs Output Power



Housing Properties

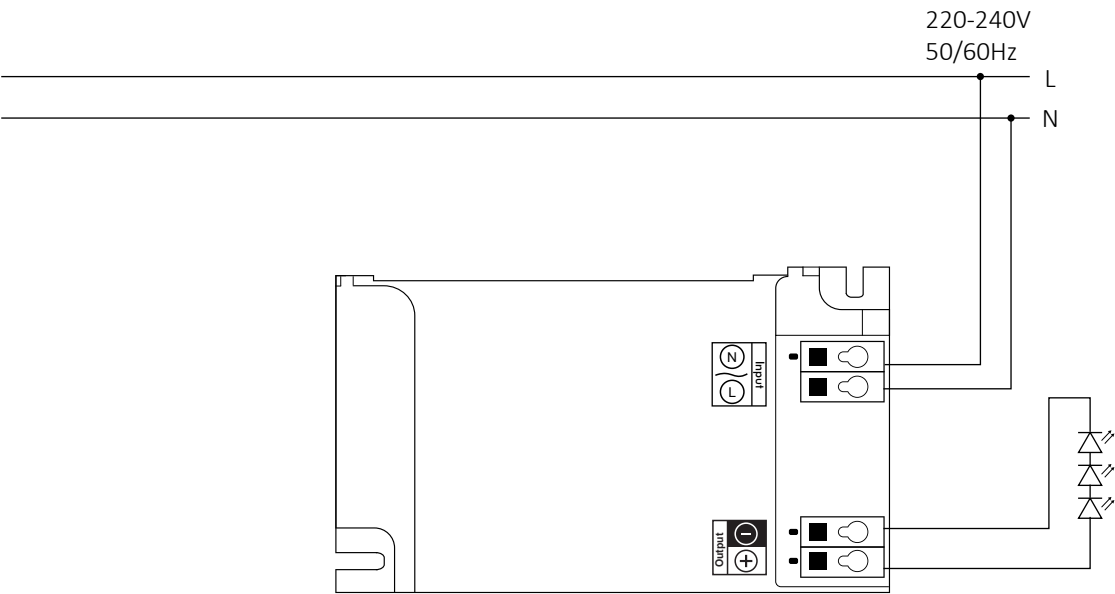
|                      |                      |
|----------------------|----------------------|
| Degree of protection | IP20                 |
| Casing               | Polycarbonate, White |

Housing Dimensions



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

Wiring Diagrams



Expected Lifetime

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

Logistics Data

|             |               |
|-------------|---------------|
| Model No.   | SS28IHI40700F |
| Weight (gm) | 80 gm         |