



COLOSSUSTM

Excellence inside

DATASHEET

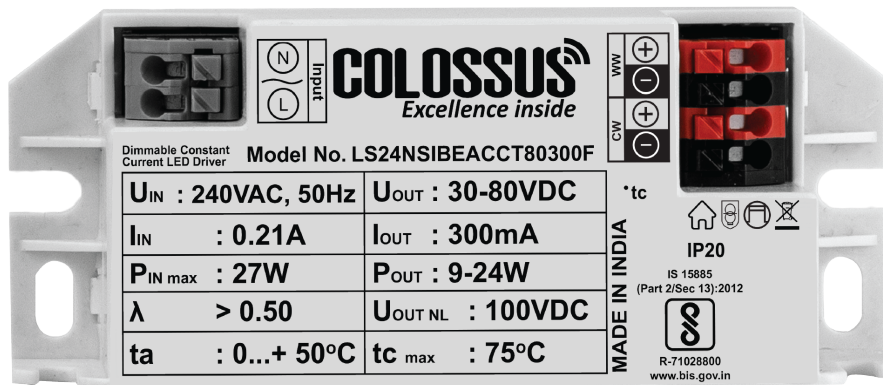
LS24NSIBEACCT80300F



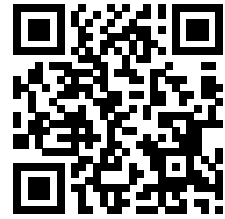
POWERED BY  **plexilent**
simplifying life

Version: 01

www.colossusworld.com



WEBSITE



<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 >90%(@100% Load)
- Power Factor >0.50 (@100%Load)
- Protection against Abnormal Operating Conditions Like Open Voltage Protection, Short Circuit Protection
- Surge Protection 2.5KV
- Compatible with BLE Beacon.
- Nominal Life Time: 20,000 hours @ $t_c \leq t_{cmax}$

Functions

- Seamless Control
- CCT & Dimming Control
- Application oriented operation for maximum compatibility

Benefits

- Low Standby Power
- Smooth Transition over wide range of CCT & Intensity

Applications



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) | NA |
| Mains Voltage Withstanding Capacity | 300VAC for 2hrs |

Output Data

Constant current

| | |
|---|-----|
| Output Current Tolerance | ±5% |
| Max. Ripple Output Current(With Led Load) | <5% |
| Max Starting Time | <1s |

Interface And Dimming Operation

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

Power Factor

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

Efficiency(typ.)

| | |
|-----------|------|
| Full Load | >90% |
|-----------|------|

Protections

| | |
|--------------------------------|---------|
| Open Circuit | <100VDC |
| Output Short Circuit Operation | YES |
| Input Over Voltage Cutoff | N.A |
| Input Under Voltage Cutoff | N.A |

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 |
|--------------------------------|-----|

Protection

| | |
|--------------|-------|
| Surge | 2.5kV |
| High Voltage | 300V |

Temperatures (Operation)

| Model No. | Ambient(ta) | Case (tc) |
|---------------------|--------------|------------|
| LS24NSIBEACCT80300F | 0°C... +50°C | Max + 75°C |

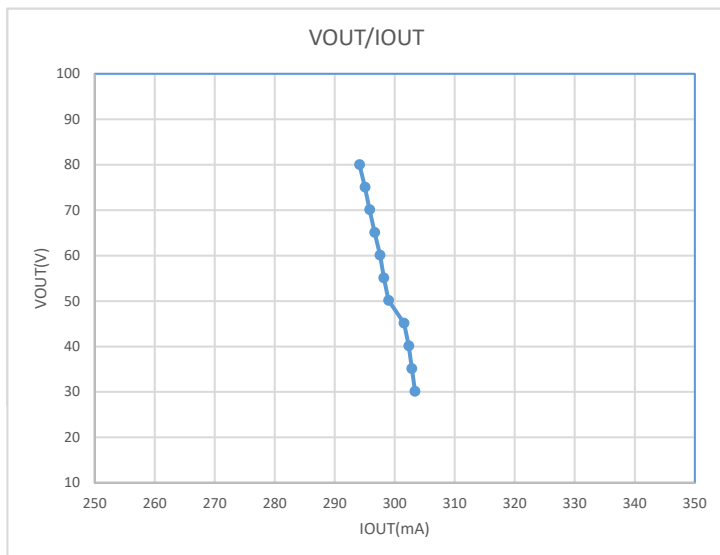
Product Specifications

| Model No. | Input Current (max) | Input Power (max) | THD | Power Factor | Efficiency | Output Current | Output Voltage | Output Power |
|---------------------|---------------------|-------------------|-----|--------------|------------|----------------|----------------|--------------|
| LS24NSIBEACCT80300F | 210mA | 27W | NA | >0.50 | >90% | 300mA | 30-80V | 9-24W |

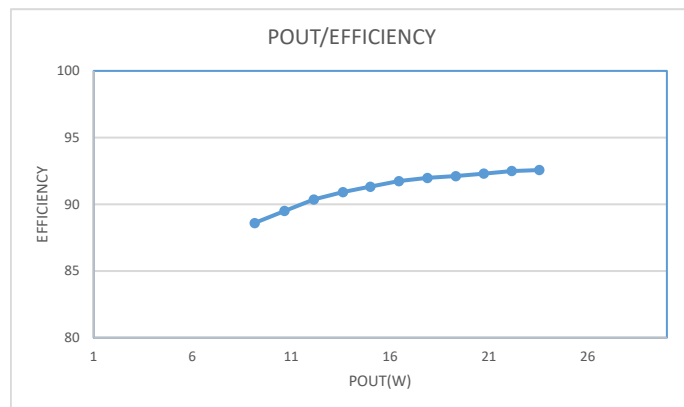
All specifications with 240 VAC are nominal operation and 100% load.

Graphs

Operating Window



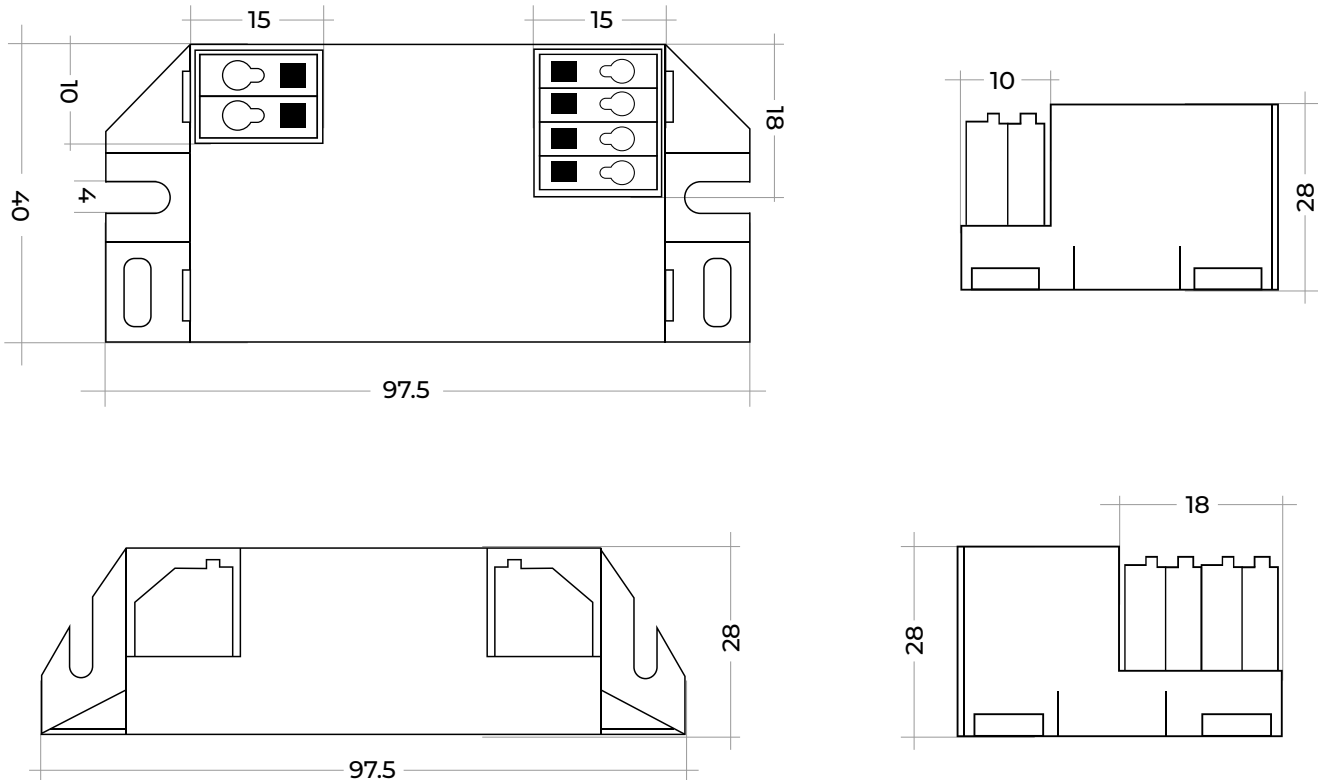
Efficiency Vs Output Power



Housing Properties

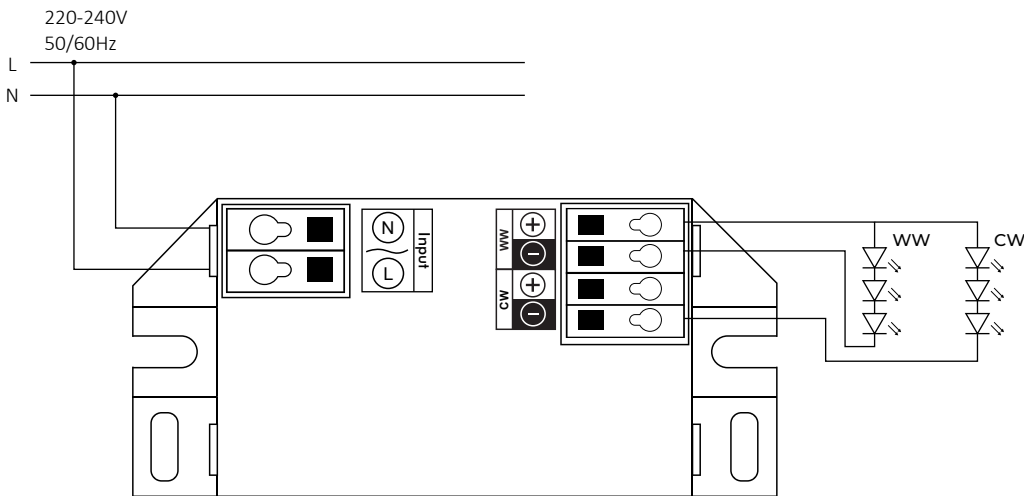
| | |
|----------------------|----------------------|
| Degree of protection | IP20 |
| Casing | Polycarbonate, White |

Housing Dimensions



| | |
|------------|--------------|
| Dimensions | 97.5*40*28mm |
| Tolerance | ± 1mm |
| Weight | 55 gm |

Wiring Diagrams



Note: For 3-Wire Connection, Use Any 1 Output Postive Terminal And Keep Other Postive Terminal N.C (Not Connected).

Expected Lifetime

| | |
|----------|--------------|
| Lifetime | 20,000 hours |
| Warranty | 1 Year |

Logistics Data

| | |
|-------------|---------------------|
| Model No. | LS24NSIBEACCT80300F |
| Weight (gm) | 55 gm |