# LED Driver 48V 150W CASAMBI dimmbar

Artikel-Nr.     EGCL150-48VF

Dimensionen: 337x30x18.2 mm

## Characteristics

- European AC input range (220-240VAC)
- With active PFC function
- Waterproof rating IP20
- CASAMBI dimming driver
- Built-in press dimming function
- Dimming range 1-100%
- Suitable for dry indoor environments
- Protection type: short circuit/over temperature/over voltage protection
- Plastic case
- Comply with world lighting equipment safety regulations
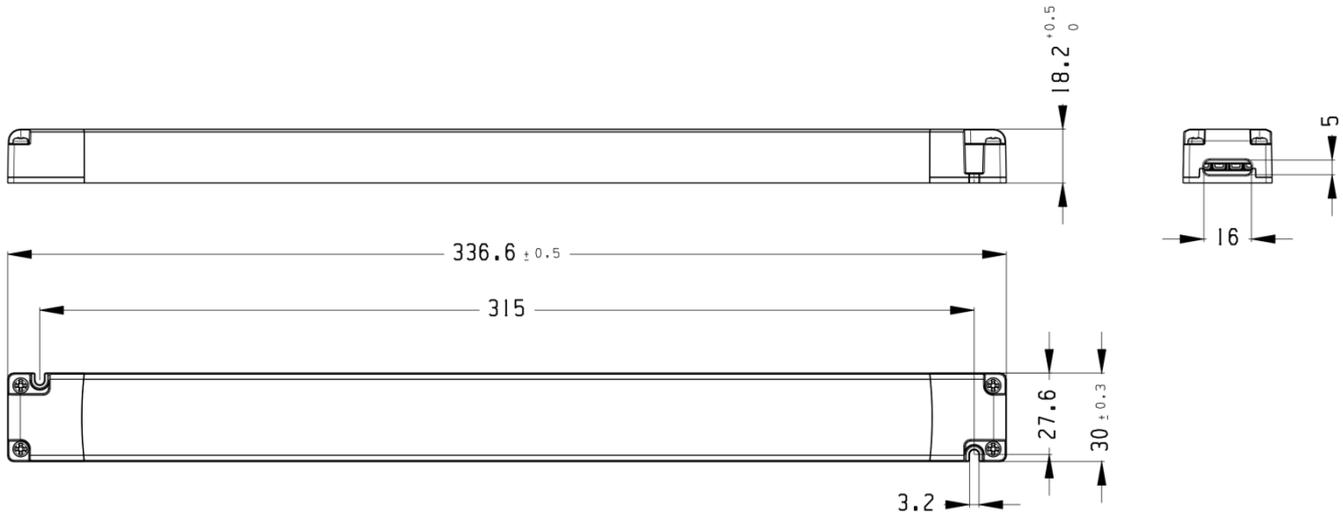
## Standards

EN61347-1
EN61347-2-13
EN61547
EN55015
EN61000-3-2
EN61000-3-3
EN62384
EN62493

# Specifications

| Model | | EGCL150-12VF | EGCL150-24VF | EGCL150-48VF |
|---|---|:---:|:---:|:---:|
| **Output** | turn on time(S) | <0.5 | <0.5 | <0.5 |
| | output power(W) | 132 | 150 | 150 |
| | output voltage(V) | 12 | 24 | 48 |
| | output voltage tolerance | ≤±5% | ≤±5% | ≤±3% |
| | ripple voltage(mV) | 150 | 240 | 480 |
| | Line Regulation | 1% | 1% | 1% |
| | Load Regulation | 2% | 1% | 1% |
| | working current range(A) | 0-11 | 0-6.25 | 0-3.125 |
| | SVM | | 0.1 | |
| | Pst | | 0.1 | |
| | dimming type | | YES | |
| | dimming range | | 1-100% | |
| **Input** | rated DC supply voltage(Vdc) | | NA | |
| | rated supply voltage(Vac) | | 220-240 | |
| | voltage range(Vac) | | 198-264 | |
| | line frequency(Hz) | | 50/60 | |
| | input current(A) | | 0.9 | |
| | efficiency (TYPE) | 92%@full load | 93.5%@full load | 93.5%@full load |
| | average efficiency(TYPE) 3 | 91.5% | 92.5% | 92.5% |
| | no load power consumption(W) | | ≤0.5W | |
| | power factor | | 0.95@full load | |
| | Displacement factor | | 0.95 | |
| | THD(typ.) THD（Type） | | 4% | |
| | inrush current(Ipk) （Ipk） | | 80A/260uS | |
| | Leakage current (mA) | | 0.7@240Vac 60Hz | |
| **Protection** | short circuit protection | | hiccup mode, restart automatically after fault correction. | |
| | over load protection | | exceed maximum rated load times 1.6 | |
| | Over voltage protection | | Yes(latch off) | |
| | Over temperature protection | | Yes(latch off) | |
| | surge capacity | | L-N: 1KV | |
| | Withstand voltage | | Input-Output：3000V/5mA/1min | |
| | Ta(C) | | -20…45 | |
| | Tc max.(C) | | max.85 | |

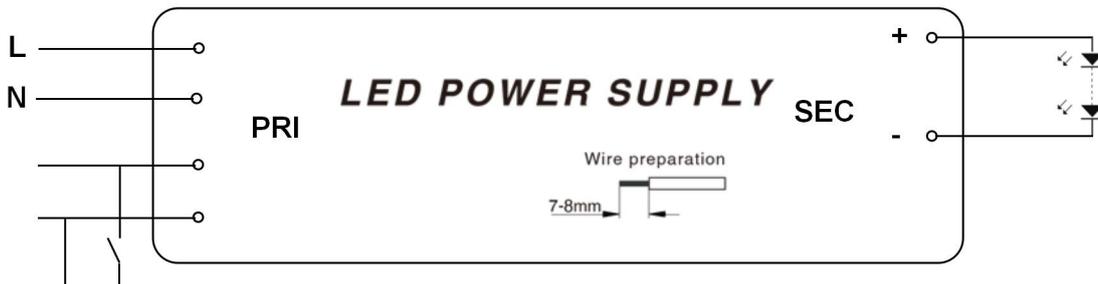| Ambient and Life | Storage Temperature(C) | -30...80 |
|---|---|---|
| | ambient humidity range | 5%...85%RH, Not condensing |
| | nominal life-time(hrs) | 50'000@Ta |
| Other | dimensions (L×W×H)(mm) | 336.6mm*30mm*18.2mm |
| | weight(g) | 280 |
| | casing material | Plastics |
| | housing colour | white |
| | type of protection | IP20 |
| | protection class | class Ⅱ |
| | certificate | |
| Note | 1. Tolerance: including setting tolerance, linear adjustment rate and load adjustment rate.<br>2. Tested under full load and 230Vac. Refer to the "Power Factor" and "Efficiency" graphs.<br>3. To calculate the average efficiency of the product, test the voltage at 100%, 75%, 50%, and 25% of the rated current, and then obtain the average of the four values through the arithmetic mean method.<br>4. All parameters not specifically mentioned are measured at rated voltage input, rated load and 25°C ambient temperature.<br>5. A power supply is a component used in conjunction with the final device. Since EMC performance will be affected by the complete installation, the final equipment manufacturer must reconfirm that the equipment after complete installation complies with the EMC directive.<br><br>PUSH push-type dimming (PUSH dimming only requires a single connection, and when multiple units are dimmed collaboratively, only APP settings are required).<br>Dimming: long press (dimming).<br>Switch: short press (ON/OFF).<br><br>The frequency range is approximately 2402-2483 MHz, and the frequency is optional when establishing a network on the APP;<br>The transmitter power is 4dBm-8dBm, which is set at the factory and defaults to 8dBm. The official recommendation is maximum;<br>Encrypted information is not available. Casambi focuses on professional lighting control and security. |

# Dimensions(mm)

$18.2^{+0.5}_{0}$

$336.6 \pm 0.5$

315

5

16

27.6

$30 \pm 0.3$

3.2

# Wiring Diagram

CASAMBI

L

N

PRI

**LED POWER SUPPLY** SEC

+

−

Wire preparation

7-8mm

PUSH

L

N

PRI

**LED POWER SUPPLY** SEC

+

−

Wire preparation

7-8mm
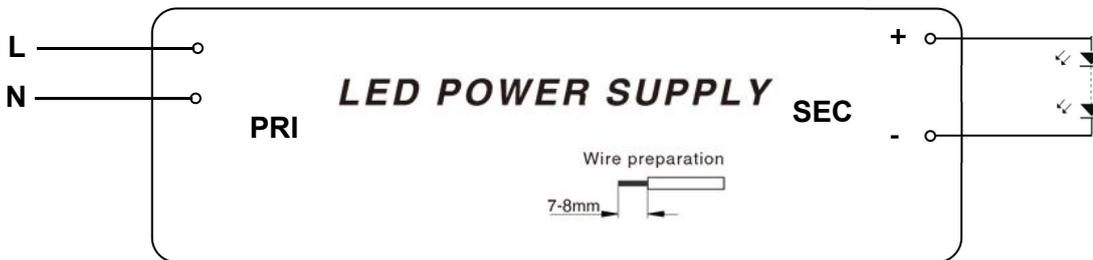
PUSH DIM

| AC | H03VVH2-F 2*0.75mm² |
|---|---|
| DC | H03VVH2-F 2*0.75mm2（24V/48V）；+ H03VVH2-F 2*0.75mm2 *2（12V |

# Electrical curves

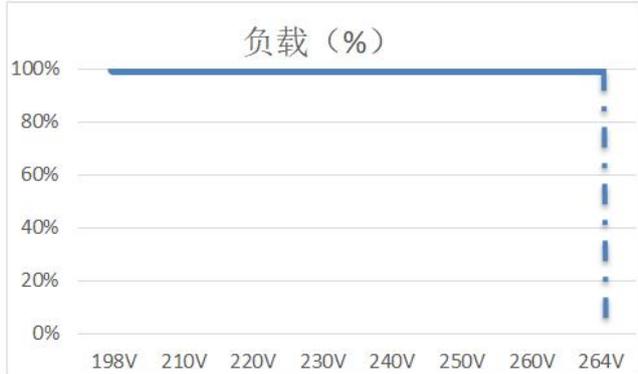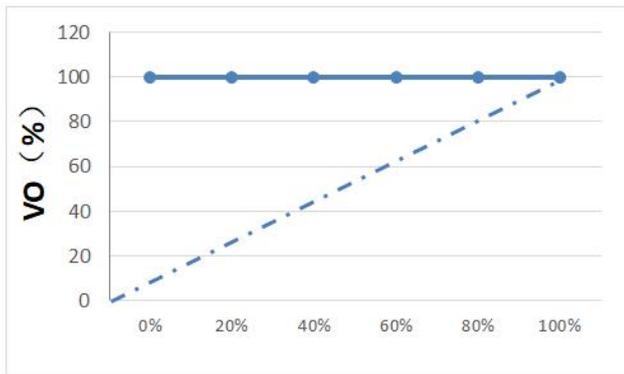| Fig. 1 Output load-Temperature curve | Fig. 2 Static characteristic curve |
|---|---|
| **230VAC** | **负载（%）** |
| Fig. 3 I-V curve | Fig. 4 Power factor characteristic curve |
| Fig.5 Total harmonic distortion curve（THD） | Fig.6 Efficiency-Load curve |
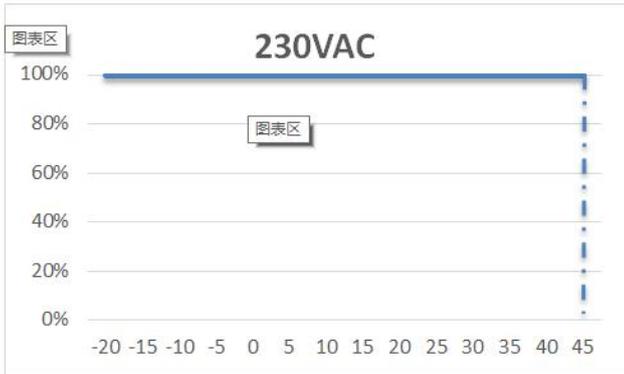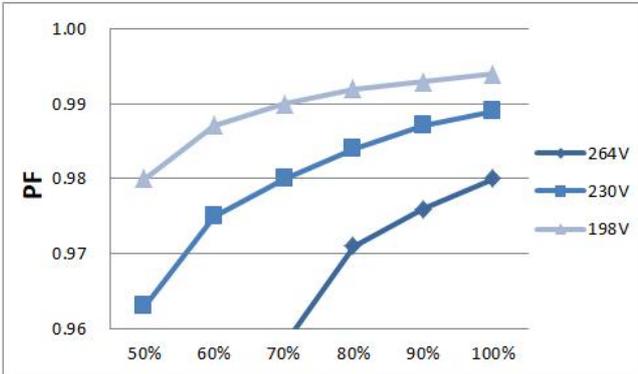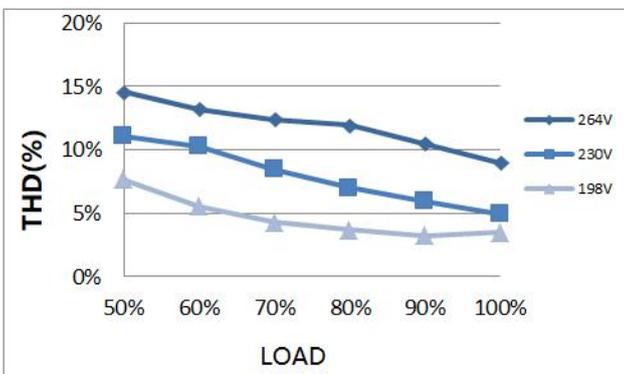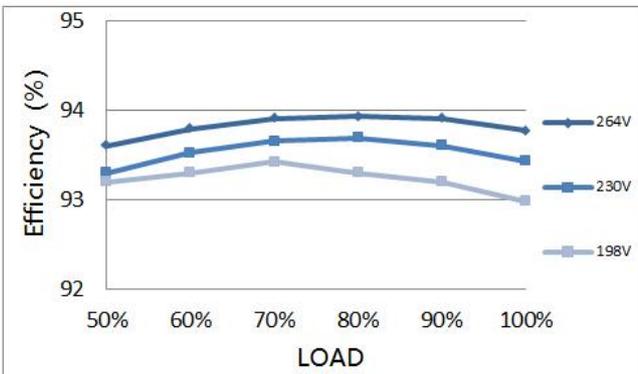
## MCBS

| MCBS / Model | B10 | B13 | B16 | B20 | C10 | C13 | C16 | C20 |
|---|---|---|---|---|---|---|---|---|
| EGCL150-12/24/48VF | 4 | 6 | 7 | 9 | 5 | 7 | 9 | 11 |

## Package

| Model | Carton quantity(pcs) | Carton dimension(mm) | G.W./CTN(kg) |
|---|---|---|---|
| EGCL150-12/24/48VF | | | |

## Revision history

| Date | Rev. | Remark |
|---|---|---|
| 2023.9.20 | A0 | Initial Issue |
| | | |
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