



# Vesta-W4 LED Driver

20W 250-500mA DIP 40V WiZ RGBTW 120-277V CC

4-Channels RGBW LED Bridgelux

Vesta-W4 LED Driver connected by WiZ PRO can work with Bridgelux RGBW LED to enable colors and tunable white control features. It enables simple, cost effective wireless lighting system for energy saving and comfort. Advanced design of the smart LED driver helps to build a reliable and standardized connected lighting system with different functionalities from simple wireless dimming to cloud based operations

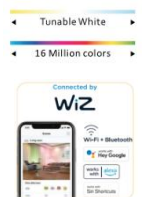
## Features

- Easy wireless dimming and scheduling for energy saving and convenience
- No gateway needed
- Energy metering feature with 10% accuracy
- Wi-Fi dual protocol module which enable local messages for installation and connectivity to WiZ cloud over Wi-Fi network
- Future-proof flexibility, support OTA (Over-The-Air) firmware update
- Protective features (short-circuit, open-circuit, over-load, no-load)
- Reliable, flicker-free
- 5 years warranty.



## Applications

- Bridgelux RGBW Solution



## Electrical Data

| Item                               | Vesta-W4 LED Driver            |
|------------------------------------|--------------------------------|
| Model No.                          | <b>BXDR-PS-20BS-U405W-01-A</b> |
| Rated Power                        | 20W                            |
| Output Channels                    | 4CH (RGBW)                     |
| Output Current (4CH)               | 500/400/300/250mA              |
| Output Voltage (4CH)               | 18...40Vdc                     |
| Nominal Input Voltage              | 120...277VAC                   |
| Nominal Input Current              | 0.09-0.20A                     |
| Max Input Current                  | 0.25A                          |
| Nominal Input Frequency            | 50...60Hz                      |
| Power Factor                       | 0.9 @ rated output power       |
| Eff (typ)                          | 84%@rated output power         |
| Total Harmonic Distortion          | ≤15% @ rated output power      |
| Output Current Tolerance           | ±5%                            |
| Output Current Ripple LF           | 5%                             |
| Mains Surge Capability             | L-N 1kV;                       |
| Ambient Temperature                | -20...+50°C                    |
| Tcase Maximum                      | 80°C                           |
| Humidity                           | 10~90%                         |
| Lifetime                           | 50,000 hrs                     |
| Control Mode                       | Wireless protocol = Wi-Fi      |
| Standby Power                      | ≅ 0.5W                         |
| Dimming range                      | 10...100% Dimming Via WiZ App  |
| Isolation controls input to output | SELV (acc. IEC61347-1)         |
| Open load protection               | YES                            |
| Short circuit protection           | YES                            |
| Over power protection              | YES                            |
| Hot wiring                         | YES                            |
| Certificate                        | CE-RED ENEC UKCA UL FCC        |

## RF Data

|                 |                          |
|-----------------|--------------------------|
| Work mode       | Wi-Fi: 802.11b/g         |
| Work frequency  | Wi-Fi: 2.4...2.4835 GHz  |
| Modulation mode | Wi-Fi: CCK/DSSS/OFDM     |
| RF output power | Wi-Fi: 20 dBm            |
| Rx sensitivity  | Wi-Fi: -98<br>Wi-Fi: -74 |

## Wiring and Connections

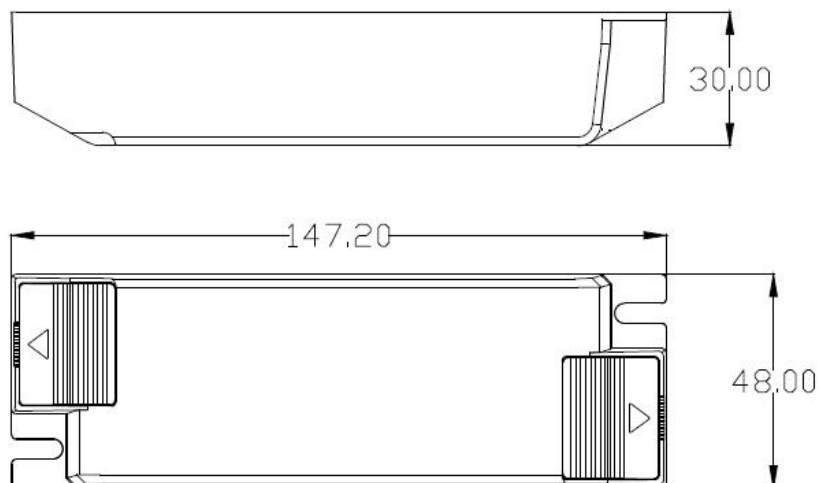
|                           |                                          |
|---------------------------|------------------------------------------|
| Input wire cross-section  | 0.75...1.5 mm <sup>2</sup> / AWG 18...16 |
| Input wire strip length   | 8.5...9.5 mm                             |
| Output wire cross-section | 0.5...1.5 mm <sup>2</sup> / AWG 20...16  |
| Output wire strip length  | 8.5...9.5 mm                             |
| Maximum cable length      | 0.3 m                                    |



## Dip-switch Operation Instructions

|      |   | OUTPUT |       |    |    |
|------|---|--------|-------|----|----|
|      |   | Pout   | Iout  | 1  | 2  |
| ON ← | 2 | 20W    | 500mA | -  | -  |
|      | 1 | 16W    | 400mA | ON | -  |
|      |   | 12W    | 300mA | -  | ON |
|      |   | 10W    | 250mA | ON | ON |

**Dimensions (mm)**



Units:MM

## FCC statement

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- 1) This device may not cause interference.
- 2) This device must accept any interference, including interference that may cause undesired operation of the device.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

### FCC Radiation Exposure Statement

This device complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This device must operate with a minimum distance of 20 cm between the radiator and user body.