

## Specification for LED Driver Series

### AB-D20150-V24-Q



#### Description:

High cost performance, SELV. Open circuit, short circuit, overload, and over temperature protection.  
Compliance with ERP directive. The warranty is 5 years.

#### Model

| Model           | Rated Output Voltage | Rated Output Current | Maximum Output Power | Output Voltage Tolerance |
|-----------------|----------------------|----------------------|----------------------|--------------------------|
| AB-D20150-V24-Q | 24V                  | 0-6.25A              | 150W                 | ±5%                      |

#### Naming System:

##### AB-D20150-V24-Q

20: IP20

150: 150 Watts

V24: 24 Volts

Q: No Dimming

## Input

| Parameter                  | Conditions                                                 | Request    | Note    |
|----------------------------|------------------------------------------------------------|------------|---------|
| Input Voltage              | Ta                                                         | 100-240Vac | --      |
| Input Frequency            |                                                            | 50Hz/60Hz  | --      |
| Input Current              | 25°C, rated input voltage, output with maximum rated power | < 0.850A   | --      |
| Input Power                |                                                            | < 170W     | --      |
| Efficiency                 |                                                            | 92%        | --      |
| Stand-By Power Consumption | 25°C, rated input voltage, output without load             | < 0.21W    | Average |
| Inrush Current             | 25°C, rated input voltage                                  | < 75A      | Peak    |
| Power Factor               | 25°C, rated input voltage, output with maximum rated power | ≥ 0.9      | --      |

## Output

| Parameter                    | Conditions                                                 | Request | Note |
|------------------------------|------------------------------------------------------------|---------|------|
| Startup time                 | 25°C, rated input voltage, output with maximum rated power | < 0.5s  | --   |
| Output Voltage and Precision | Ta, Rated Input Voltage                                    | 24V±5%  | --   |
| Output Current Range         | Ta, Rated Input Voltage                                    | 0-6.25A | --   |
| Output Voltage Wave          | 25°C, rated input voltage, output with maximum rated power | 300mV   | Vp-p |
| Output Overload              | 25°C, rated input voltage, output with 2 LED Load          | Yes     | --   |
| Output Current and Precision | Ta, Rated Input Voltage                                    | --      | --   |
| Rated Output Voltage Range   | Ta, Rated Input Voltage                                    | --      | --   |
| Output Current Wave          | 25°C, rated input voltage, output with maximum rated power | --      | Ip-p |
| Dimming Mode                 | --                                                         | --      | --   |
| Dimming Range                | --                                                         | --      | --   |

## Protection

| Parameter  |                  | Conditions                                                                            | Request |
|------------|------------------|---------------------------------------------------------------------------------------|---------|
| Protection | Open Circuit     | Ta, rated input voltage, no load                                                      | Yes     |
|            | Overload         | Ta, 0.94-1.06 times of input voltage 1.4 times of rated                               | Yes     |
|            | Short Circuit    | Ta, 0.94-1.06 times of input voltage                                                  | Yes     |
|            | Over Temperature | Ta, 0.94-1.06 times of input voltage, temperature detected point more than 115 degree | Yes     |
|            | Over Voltage     | Ta, 0.94-1.06 times of input voltage, output voltage is 1.5 times of rated one        | Yes     |
|            | Auto Recovery    | Overload, short circuit revocation                                                    | Yes     |
|            | Latch Off        | Over voltage, overheat re-start after cut off                                         | Yes     |

## Temperature and Others

| Parameters               | Conditions                                                                                                              | Request    |
|--------------------------|-------------------------------------------------------------------------------------------------------------------------|------------|
| Operating Temperature    | --                                                                                                                      | -20-45°C   |
| Relative Humidity        | --                                                                                                                      | 45%-85%    |
| Maximum Case Temperature | --                                                                                                                      | 90°C       |
| Lifetime                 | Max. Ta, rated input voltage, output with max. rated power                                                              | 30,000 hrs |
| Working Noise            | 25°C, rated input voltage, output with rated power, mute box background noise <30dB, pickup 10cm distance from products | Yes        |

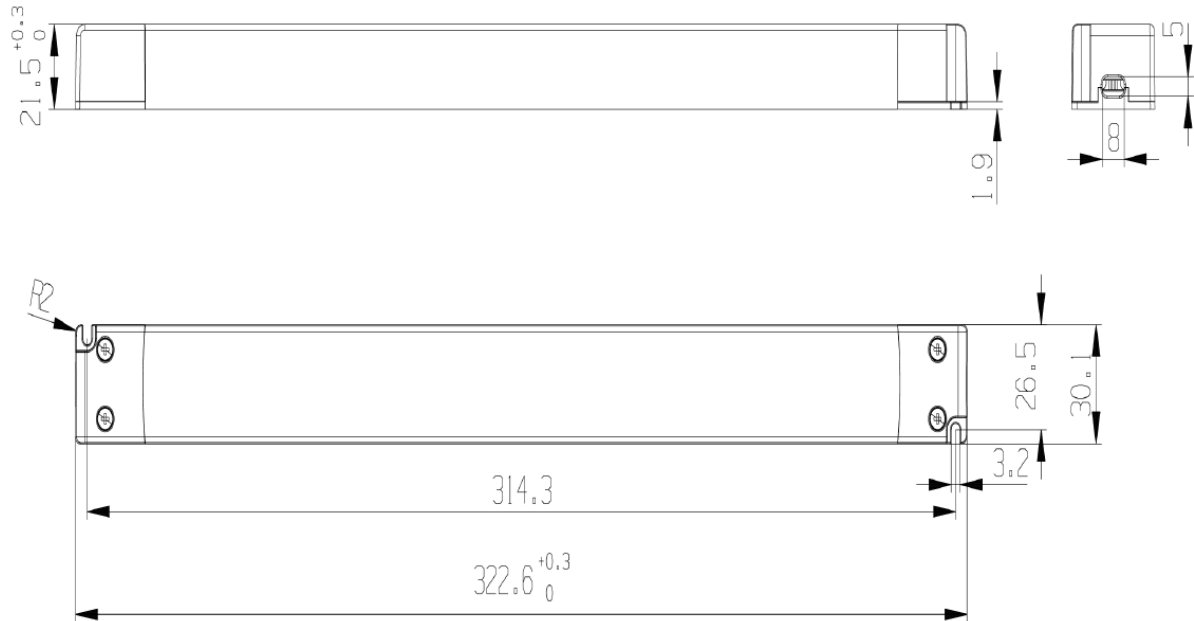
## Mechanical, Mounting

| Items                   | Conditions     |
|-------------------------|----------------|
| Case Material and Size  | Plastic Case   |
| Mounting Ways           | Independent    |
| Insulation Type         | Class II       |
| IP Grade                | IP20           |
| Input Cables dimension  | Terminal Block |
| Output Cables Dimension | Terminal Block |
| Output Cables Length    | --             |

## Safety & Standards

| Items    | Conditions                                                 |
|----------|------------------------------------------------------------|
| Safety   | IEC61347-1, IEC61347-2-13<br>(Combine with light IEC60598) |
| Harmonic | IEC61000-3-2 Class C                                       |
| EMI      | IEC55015, FCC part 15 Class B                              |
| EMS      | EN61000-4-2, 3, 4, 5, 6<br>EN61547                         |

## Mechanical Specification (Unit: mm)



## Wiring Diagram

