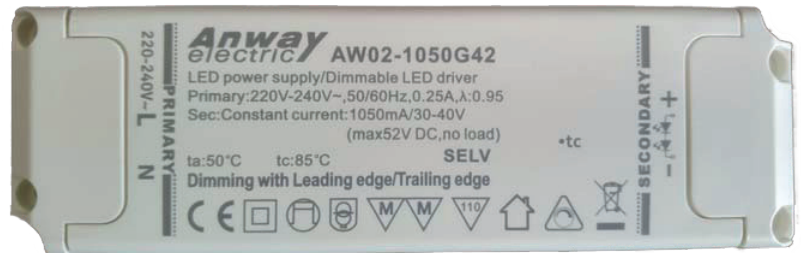


AW02-1050G42

## LED Power Supply Constant Current Driver

- Triac dimmable driver, leading edge/trailing edge
- Long lasting and high reliability,
- Extra small compact housing,
- Suitable for use with downlights,
- Spotlights, and other indoor LED applications



### Approval marks



| Item | Value   Unit   Remarks |
|------|------------------------|
|------|------------------------|

#### 1. Input

|                                 |   |
|---------------------------------|---|
| Nominal Voltage                 | 220 – 240 VAC   |
| Nominal frequency               | 50 - 60 Hz  |
| AC voltage range                | 200 – 264 VAC Permitted voltage range                 |
| DC voltage range                | NA V  |
| Maximum voltage                 | 264 V 2hrs  |
| Nominal current                 | 230 mA 230V @ 42W load                                |
| Total Harmonic Distortion (THD) | < 20 % Full load, 230 V, 50 Hz                        |
| Power factor                    | 0.95 Full load, 230 V, 50 Hz                          |
| Efficiency                      | >85% Full load, 230 V, 50 Hz, typical                 |
| No-load power                   | < 1W 230V, typical                                    |
| Stand-by power                  | NA W  |
| Power loss                      | 6.1W at 230V input @ 42W load max.                    |
| Input power                     | 48.1W at 230V input @ 42W load max.                   |
| Protection class                | II Suitable for class I and class II luminaires       |
| Inrush current                  | < 5 A twidth = 100 μs typical (measured at 50% Ipeak) |

#### 2. Output

|                       |   |
|-----------------------|---|
| Nominal voltage range | 30 - 40 VDC   |
| Maximum voltage       | 52VDC Open circuit  |
| Nominal current range | 1050 Ma   |
| Current accuracy      | +/- 5 %   |
| Current ripple        | 10 % typical  |
| Nominal power range   | ≤42 W Partial Load.   |
| Maximum power         | 42 W Ta ≤ 55°C,   |
| Galvanic isolation    | SELV-equivalent 3,75 kVrms . Output to earth - Touch current < 0.7 mA |

### 3. Environment

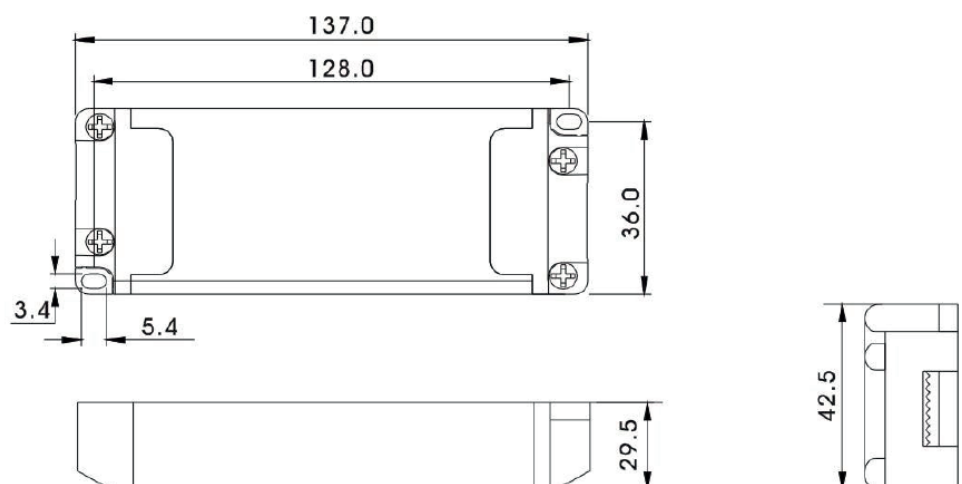
|                                    |   |
|------------------------------------|---|
| Maximum case temperature $t_c$     | 85 °C Measured on $t_c$ point indicated of the product label    |
| Max. Case temp. in fault condition | 110 °C  |
| Storage temperature range          | -25 ... +75 °C Cool down before operating                       |
| Relative humidity                  | 5 ... 80 % Not condensing                                       |
| Surge transient protection         | 1   1 kV L/N   LN/PE acc. IEC 61000-3-2 (ANSI C62.41 Cat.A ...) |
| Environmental rating               | Indoor  |
| IP rating                          | IP 20   |
| Mains switching cycles             | > 100'000   |
| Expected lifetime                  | 35,000hrs @ $t_c = 85^\circ\text{C}$ , B10                      |
|                                    | 50,000hrs @ $t_c = 75^\circ\text{C}$ , B10                      |

### 4. Protection

|                          |  |
|--------------------------|--|
| Overheating protection   | yes, automatic reversible  |
| Overload protection      | yes, automatic reversible  |
| Short-circuit protection | yes, automatic reversible  |
| Hot plug-in protection   | No, Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs. |

### 5. Dimension, Weight

|                                 |                           |
|---------------------------------|---------------------------|
| Dimensions                      | 137*42.5*29.5mm           |
| Weight                          | 80g                       |
| Max. cable length               | 2m                        |
| Cable crosssection, input side  | 0.5...1.5 mm <sup>2</sup> |
| Cable crosssection, output side | 0.2...1.5 mm <sup>2</sup> |

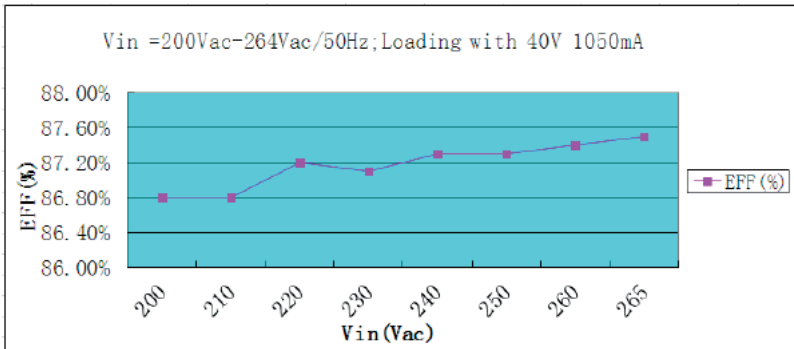


### Safety and EMC standard

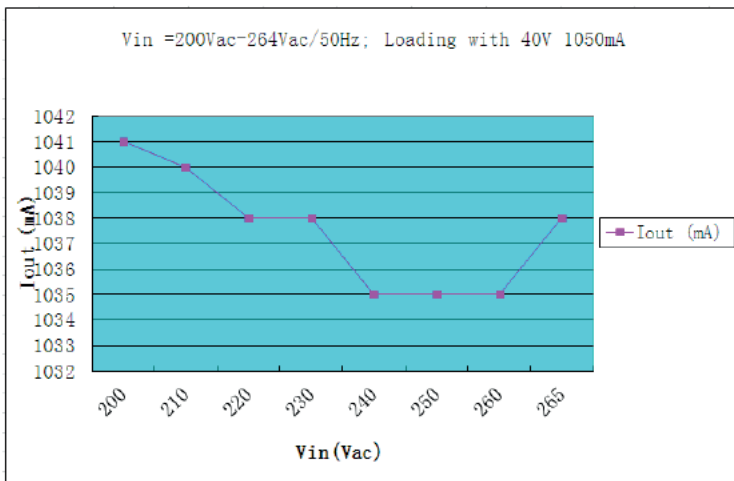
Safety according to  
 EN 61347-1, 61347-2-3, 61347-2-13, 62384  
 RI suppression according to EN  
 55015:2007+A1:2007/CDN  
 Line harmonics according to EN 61000-3-2  
 Immunity according to EN 61547

# AW02-1050G42

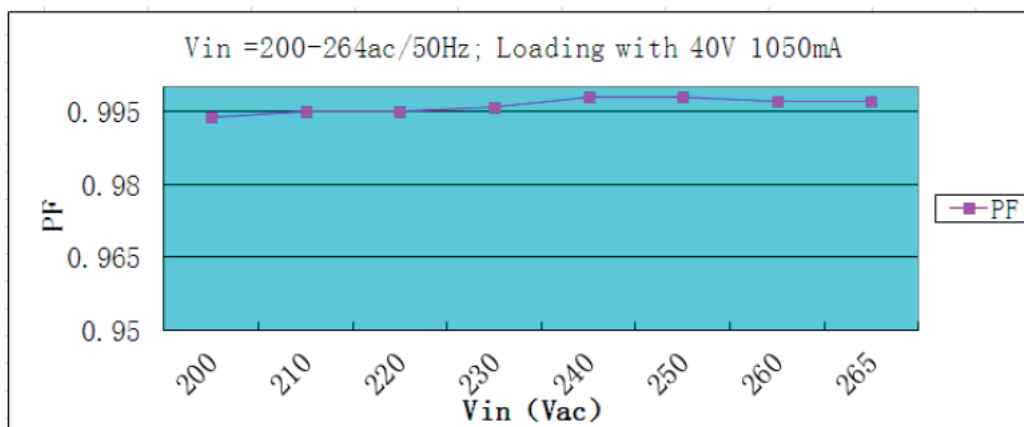
## Variable Input Vs Efficiency



## Variable Input Vs Vout Measurement



## Variable Input Vs PF Measurement



### Disclaimer

The information in this data sheet subject to change without notice.  
 Always make sure to use the most recent release, or consult with us before your final selection.