

## LED Power Supply Constant Current Driver

- 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                                |
|---------------------------------|-------------------------------------------------------|
| <b>1. Input</b>                 |                                                       |
| 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                                                 |
| Nominal current                 | 400 mA 230V @60W load                                 |
| Total Harmonic Distortion (THD) | ≤10% 230V @60W load                                   |
| Power factor                    | 0.95 Full load, 230 V, 50 Hz                          |
| Efficiency                      | 88 % Full load, 230 V, 50 Hz, typical                 |
| No-load power                   | < 0.6 W 230V, typical                                 |
| Stand-by power                  | NA W                                                  |
| Power loss                      | 7W at 230V input @60W load max.                       |
| Input power                     | 67W at 230V input @ 60Wload 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 | 33-40VDC                                             |
| Maximum voltage       | 55VDC Open circuit                                   |
| Nominal current range | 1500mA                                               |
| Current accuracy      | ± 5 %                                                |
| Nominal power range   | 50– 60W Partial Load.                                |
| Maximum power         | 60W Partial Load.                                    |
| Safety isolation      | SELV-equivalent 3,000 kVrms . Touch current < 0.7 mA |

### 3. Environment

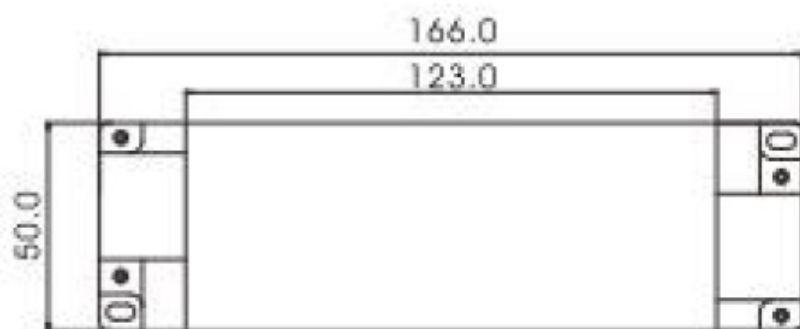
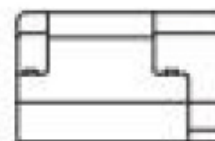
|                                    |                                                                                |
|------------------------------------|--------------------------------------------------------------------------------|
| Ambient temperature range $t_a$    | -20 ... +45°C                                                                  |
| 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 kV L/N acc. IEC 61000-3-2 (ANSI C62.41 Cat.A ...)                            |
| Environmental rating               | Indoor                                                                         |
| IP rating                          | IP 20                                                                          |
| Mains switching cycles             | > 50'000                                                                       |
| Expected Lifetime                  | 30000 @ $t_a = 45^\circ\text{C}$ , $t_c = 85^\circ\text{C}$ , 10% failure rate |
|                                    | 50000 @ $t_a = 35^\circ\text{C}$ , $t_c = 75^\circ\text{C}$ , 10% failure rate |

### 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                      | 166x50x32                 |
| Weight                          | 165g                      |
| Max. cable length               | 1.2m                      |
| Cable crosssection, input side  | 0.5...1.5 mm <sup>2</sup> |
| Cable crosssection, output side | 0.2...1.5 mm <sup>2</sup> |



## AW06-1500P60

### Safety and EMC standard

Safety according to

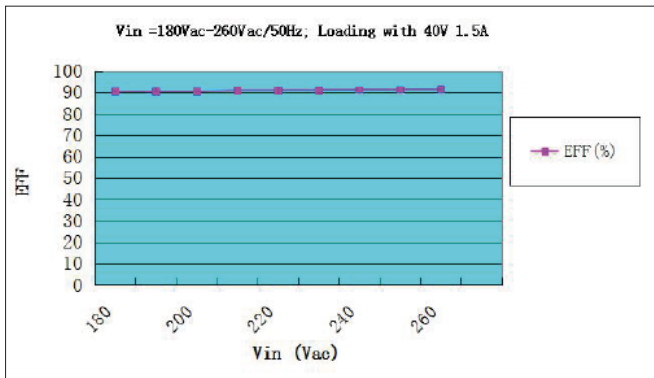
EN 61347-1 , 61347-2-13, 62493

RI suppression according to EN 55015 /CDN

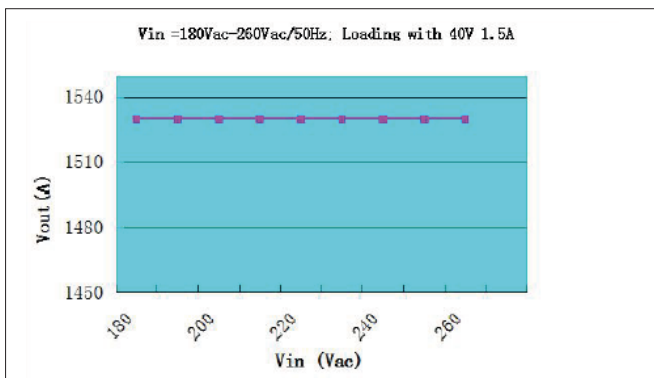
Line harmonics according to EN 61000-3-2

Immunity according to EN 61547

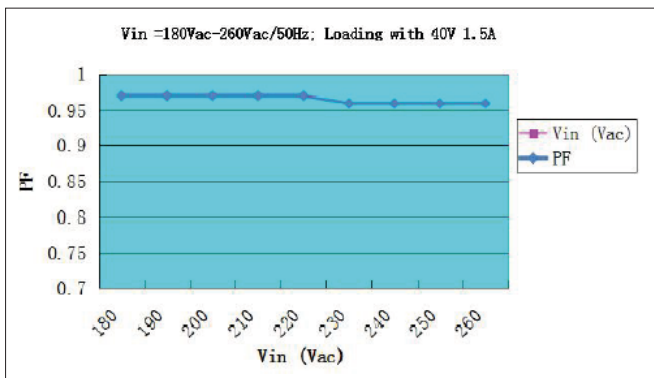
### Variable Input Vs Efficiency



### Variable Input Vs Iout 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.