

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
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
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	40-48VDC
Maximum voltage	63VDC Open circuit
Nominal current range	1250mA
Current accuracy	± 5 %
Nominal power range	50– 60W Partial Load.
Maximum power	60W Partial Load.
Flicker	SELV-equivalent 3,000 kVrms . Touch current < 0.7 mA
Safety isolation	SELV-equivalent 3,000 kVrms . Touch current < 0.5 mA

3. Environment

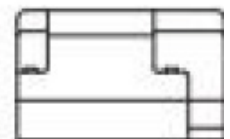
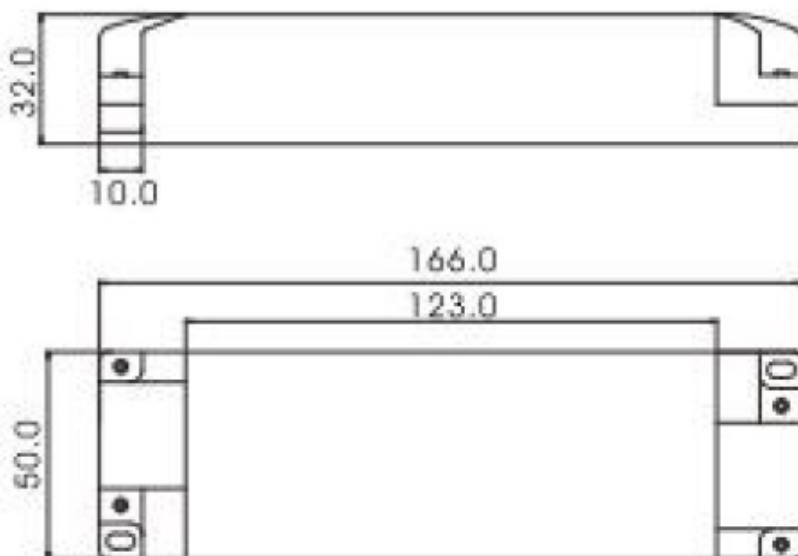
Ambient temperature range t_a	-20 ... +45°C
Maximum case temperature t_c	85 °C Measured on t_c point indicated of the product label
Max. Case temp. in fault condition	110 °C
Storage temperature range	-25 ... +75 °C Cool down before operating
Relative humidity	5 ... 80 % Not condensing
Surge transient 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 ²
Cable crosssection, output side	0.2...1.5 mm ²



AW06-1250P60

Safety and EMC standard

Safety according to

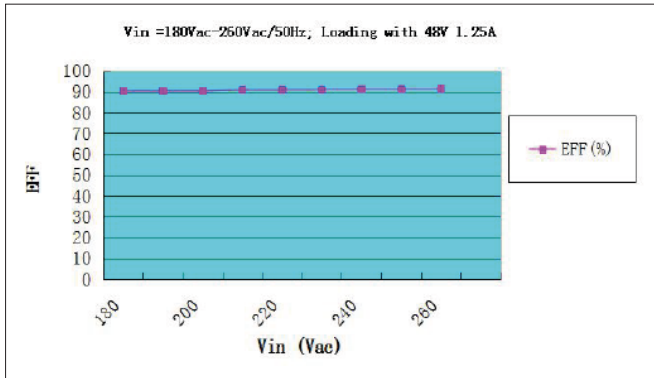
EN 61347-1 , 61347-2-13, 62493

RI suppression according to EN 55015 /CDN

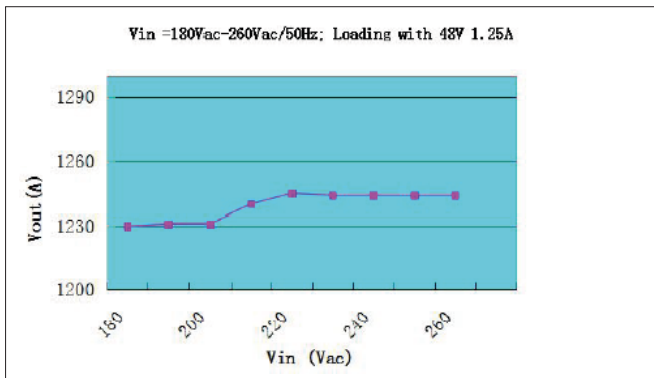
Line harmonics according to EN 61000-3-2

Immunity according to EN 61547

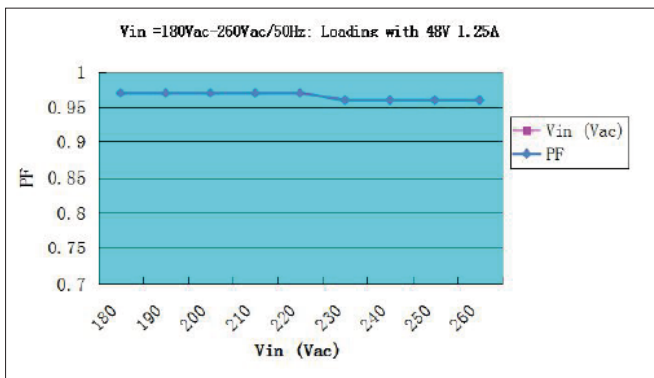
Variable Input Vs Efficiency



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.