

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	220 mA 230V @ 43W load
Total Harmonic Distortion (THD)	< 20 % Full load, 230 V, 50 Hz
Power factor	0.9 Full load, 230 V, 50 Hz
Efficiency	>88% Full load, 230 V, 50 Hz, typical
No-load power	< 0.5 W 230V, typical
Stand-by power	NA
Power loss	7W at 230V input @ 52W load max.
Input power	59W at 230V input @ 52W load max.
Protection class	II
Inrush current	< 5 A twidth = 100 µs typical (measured at 50% Ipeak)

2. Output

Nominal voltage range	41-50VDC
Maximum voltage	65VDC Open circuit
Nominal current range	1050 mA
Current accuracy	+/- 5 %
Nominal power range	43-52.5 W Partial Load.
Maximum power	53 W Ta ≤ 45°C,
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

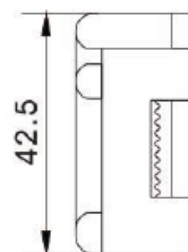
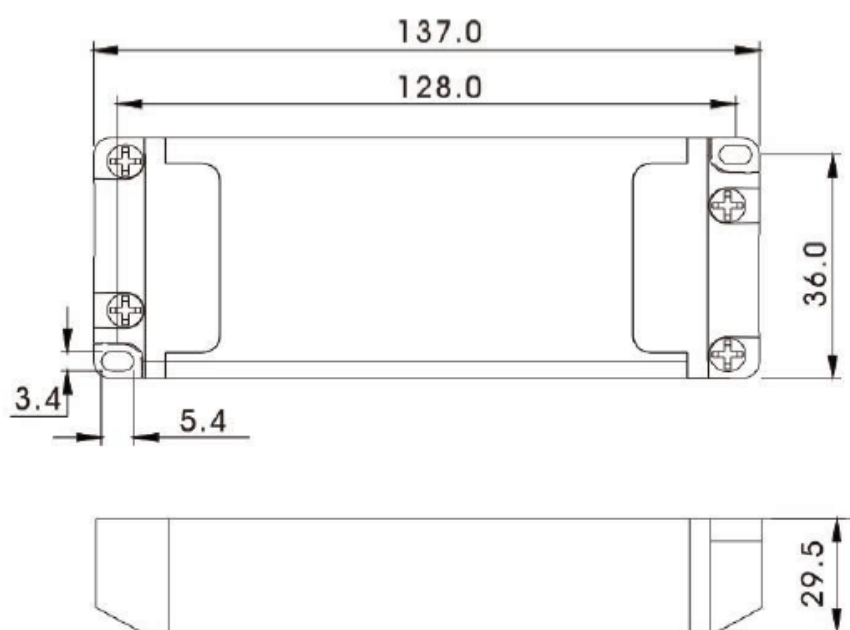
Ambient temperature range t_a	-20 ... +45°C
Maximum case temperature t_c	85 °C Measured on t_c point indicated of the product label
Max. Case temp. in fault condition	110 °C
Storage temperature range	-25 ... +75 °C Cool down before operating
Relative humidity	5 ... 80 % Not condensing
Surge transient 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	> 100'000
Expected Lifetime	30000 hrs @ $t_a = 45^\circ\text{C}$, $t_c = 85^\circ\text{C}$, 10% failure rate
	50000 hrs @ $t_a = 35^\circ\text{C}$, $t_c = 75^\circ\text{C}$, 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	137x42.5x29.5
Weight	152g
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



AW06-1050G52

Safety and EMC standard

Safety according to

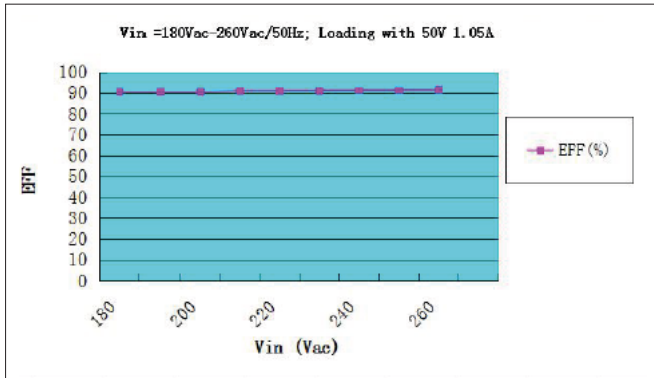
EN 61347-1 , 61347-2-13, 62493

RI suppression according to EN 55015 /CDN

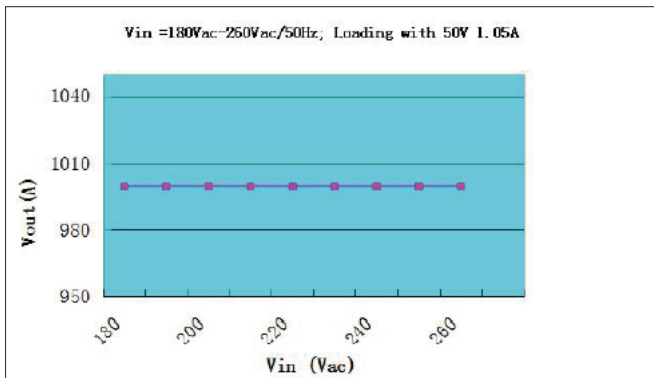
Line harmonics according to EN 61000-3-2

Immunity according to EN 61547

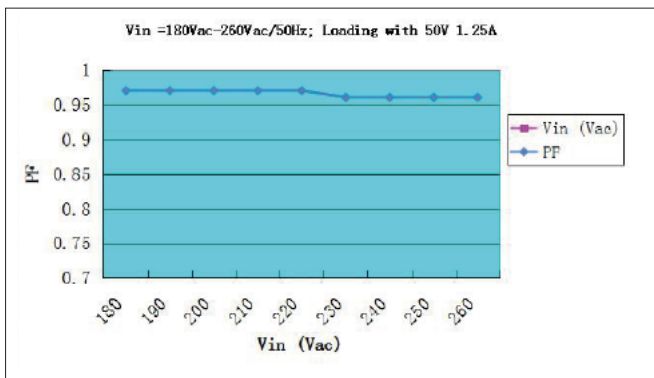
Variable Input Vs Efficiency



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.