

LED Power Supply

Intelligent LED driver

- Long lasting and high reliability,
- Extra small compact housing,
- Suitable for use with, Spotlights, and other indoor LED applications



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

Approval marks



Item	Value/Unit /Remarks
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1. Input

Nominal voltage	220 – 240 VAC
Nominal frequency	50 - 60 Hz
AC voltage range	200 – 254 VAC Permitted voltage range
DC voltage range	NA V
Maximum voltage	254 V 2hrs
Nominal current	200 mA 230V @ 20W load
Total Harmonic Distortion (THD)	NA
Power factor	0.5 Full load, 230 V, 50 Hz
Efficiency	>85 % Full load, 230 V, 50 Hz, typical
No-load power	< 0.5 W 230V, typical
Stand-by power	NA
Power loss	3.1W at 230V input @ 20W load max.
Input power	23.1W at 230V input @ 20W load max.
Protection class	II
Inrush current	< 5 A twidth = 100 µs typical (measured at 50% Ipeak)

2. Output

Nominal voltage range	24VDC
Maximum voltage	25VDC Open circuit
Maximum current range	830mA
Voltage accuracy	+/- 5 %
Nominal power range	0-20W Partial Load.
Maximum power	20 W Ta ≤ 45°C,
Safety isolation	SELV-equivalent 3,0 kVrms . Touch current < 0.7 mA

3. Environment

Ambient temperature range t_a	-20 ... +40°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	0.5 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	30'000 @ $t_c = 85^\circ\text{C}$, B10
	50'000 @ $t_c = 75^\circ\text{C}$, B10

4. Build-in module

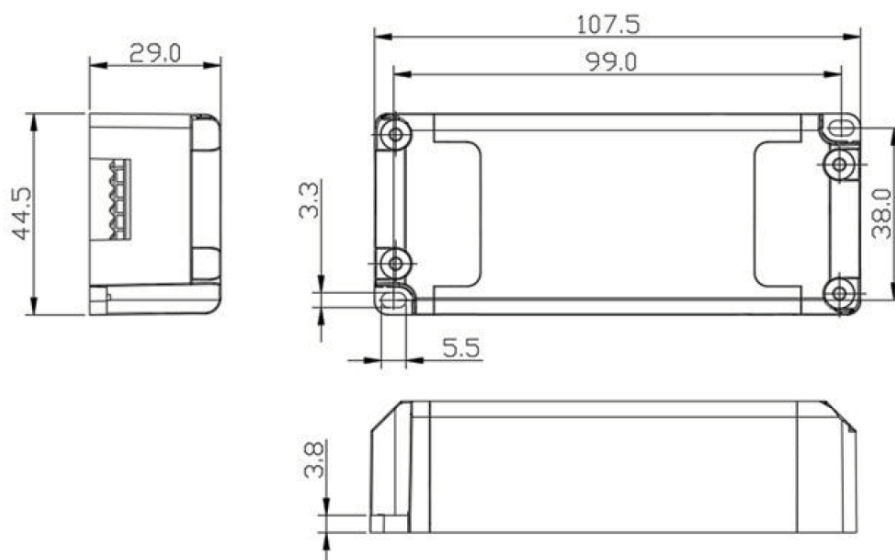
module	Zigbee module
	WiFi moduel

5. Protetcion

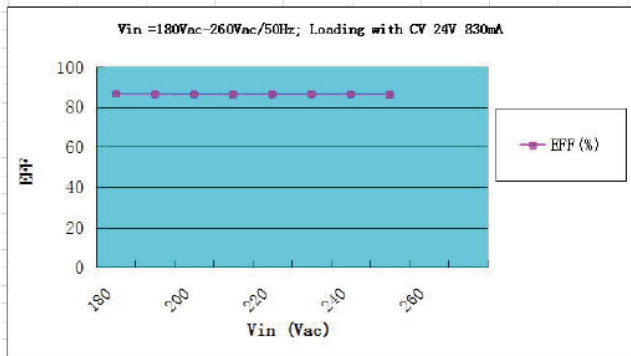
Overheating protection	yes, automatic reversible
Overload protection	yes, automatic reversible
Short-circuit protection	yes, automatic reversible
Hot plug-in protection	No, Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

6. Dimension | Weight

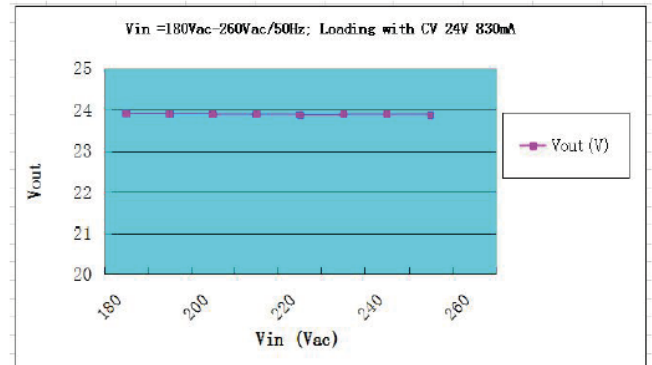
Dimensions	107.5 x 44.5 x 29mm
Weight	100g
Max. cable length	1.2m
Cable crossection, input side	0.5...1.5 mm ²
Cable crossection, output side	0.2...1.5 mm ²



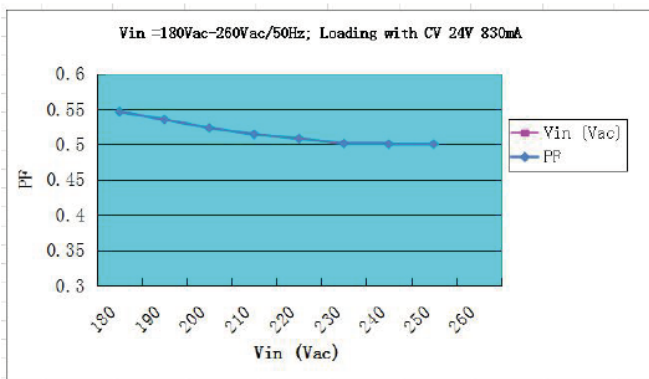
7.1 Variable Input Vs Efficiency



7.2 Variable Input Vs Vout Measurement



7.3 Variable Input Vs PF Measurement



7. 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.