

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
------	---------------------

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	0.22 A 230V @ 20W load
Total Harmonic Distortion (THD)	NA
Power factor	0.5 Full load, 230 V, 50 Hz
Efficiency	>=82 % Full load, 230 V, 50 Hz, typical
No-load power	< 0.5 W 230V, typical
Stand-by power	NA W
Power loss	4W at 230V input @ 24.2W load max.
Input power	24.2.1W 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	18-47VDC	
Maximum voltage	58VDC Open circuit	
Maximum current range	300~700mA	
Voltage accuracy	+/- 5 %	
Output Voltage & Output Current	32-47V	300mA
	32-47V	400mA
	26-40V	500mA
	22-36V	550mA
	20-34V	600mA
	18-28V	700mA
Nominal power range	12-20W Partial Load.	
Maximum power	12 W $T_a \leq 45^\circ\text{C}$,	
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

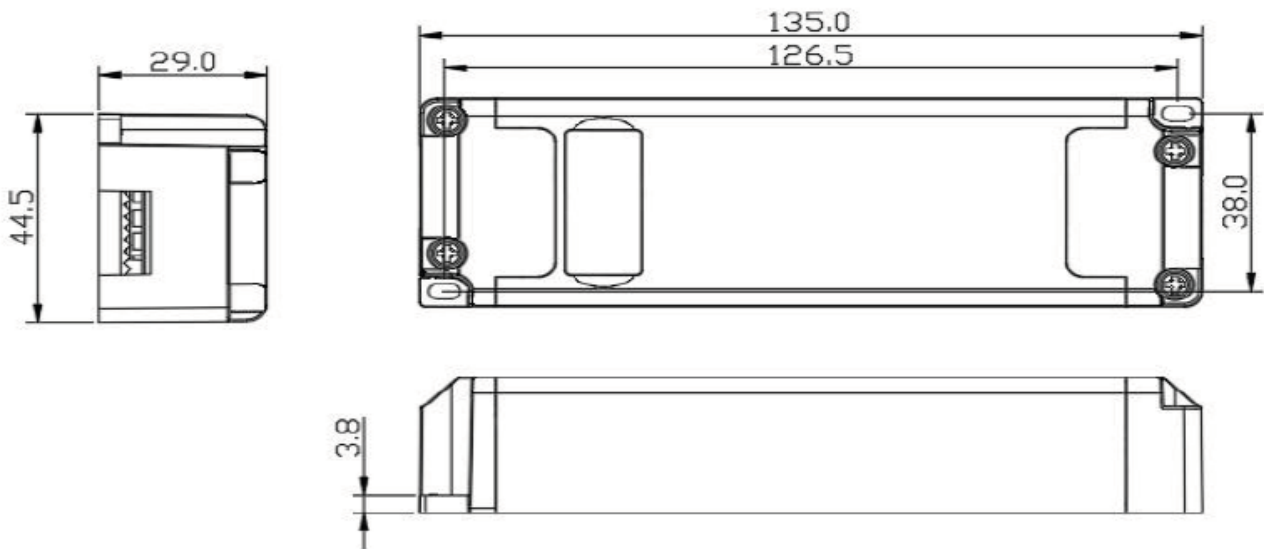
4. Protection

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.

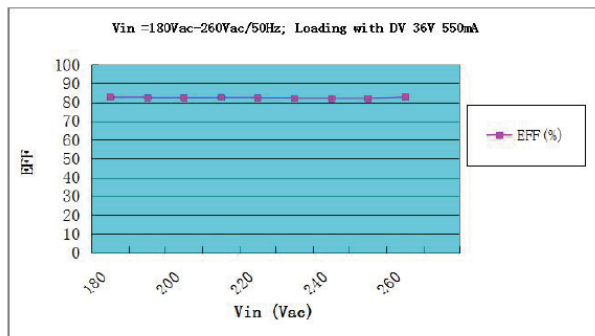
5. Dimension | Weight

Dimensions	135 x 44.5 x 29mm
Weight	125g
Max. cable length	1.2m
Cable crosssection, input side	0.5...1.5 mm ²
Cable crosssection, output side	0.2...0.75 mm ²

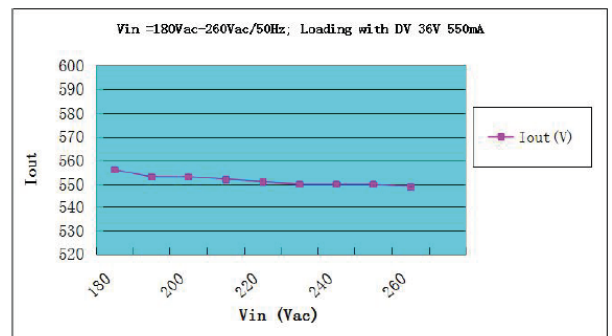
5. Dimensions



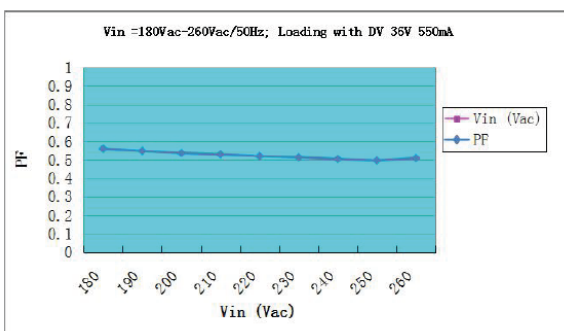
6.1 Variable Input Vs Efficiency



6.2 Variable Input Vs Iout Measurement



6.3 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.