

LED Power Supply

Constant Current Driver | 60V_{DC} | 700mA

- Long lasting and high reliability
- Extra small compact housing
- Suitable for use with desk/table lamp, floor lamp 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 – 264 VAC Permitted voltage range
DC voltage range	NA V
Maximum voltage	264 V
Nominal current	200 mA 230V @ 30W load
Total Harmonic Distortion (THD)	NA
Power factor	0.9 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	4.8W at 230V input @ 30W load max.
Input power	34.8W at 230V input @ 30W load max.
Protection class	II
Inrush current	< 5 A twidth = 100 µs typical (measured at 50% Ipeak)

2. Output

Nominal voltage range	60VDC
Maximum voltage	43VDC Open circuit
Maximum current range	700mA
Voltage accuracy	+/- 5 %
Nominal power range	0 – 30W Partial Load.
Maximum power	30 W Ta 40°C,
Safety isolation	SELV-equivalent 3.000 kVrms . Touch current < 0.7 mA

ECO-700D30

3. Environment

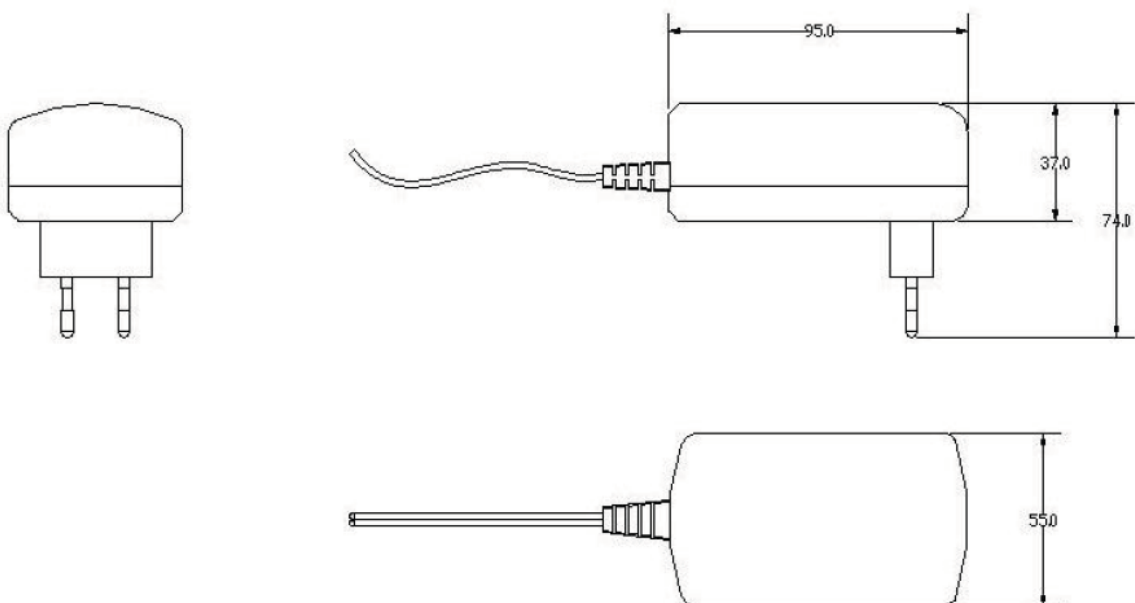
Ambient temperature range t_a	-20 ... +40°C
Maximum case temperature t_c	85°C Measured on t_c point indicated of the product label
Max. Case temp. in fault condition	110 °C
Storage temperature range	-25 ... +75 °C Cool down before operating
Relative humidity	5 ... 80 % Not condensing
Surge transient protection	1.25 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	30'000 @ $t_c = 75^\circ\text{C}$, B10
	50'000 @ $t_c = 65^\circ\text{C}$, 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.

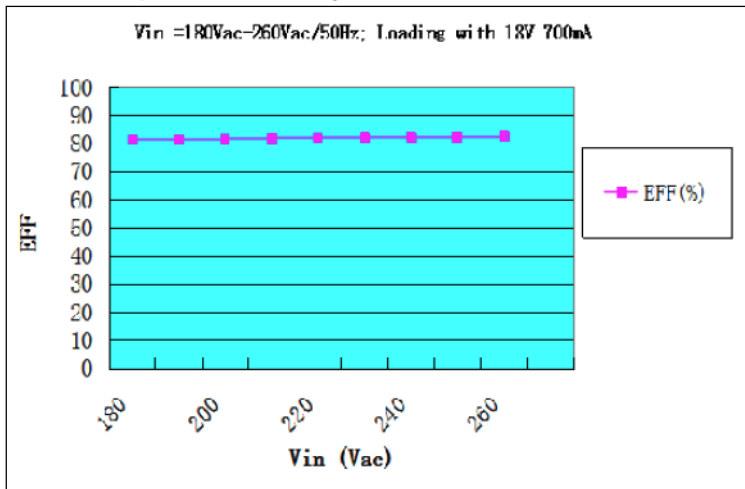
5. Dimension | Weight

Dimensions	95 x 55 x 37mm
Weight	NA
Max. cable length	2m
Cable crosssection, input side	NA
Cable crosssection, output side	0.2 ... 1.5 mm ²

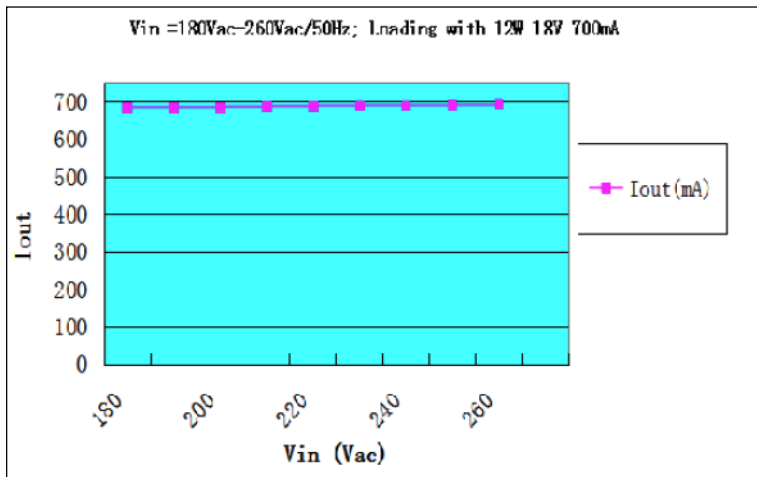


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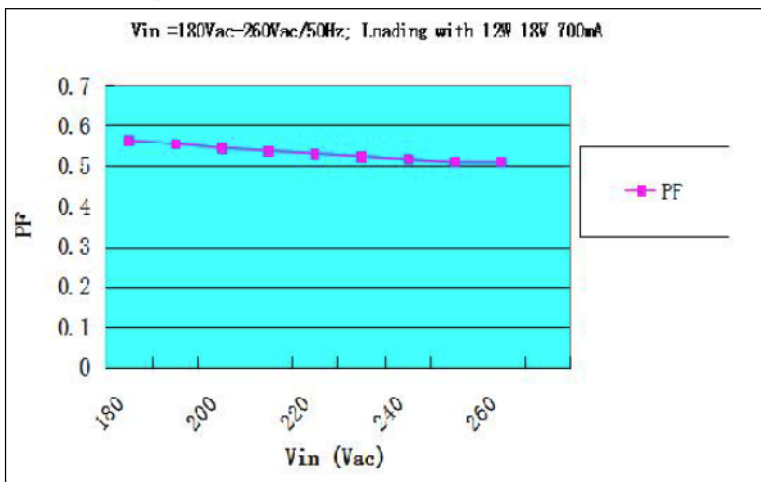
6.1 Variable Input Vs Efficiency



6.2 Variable Input Vs Vout 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.