

LED Power Supply

Constant Current Driver | 16-34V_{DC} | 350mA

- Long lasting and high reliability,
- Extra small compact housing,
- Suitable for use with 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
Maximum voltage	264 V
Nominal current	200 mA 230V @ 12W load
Total Harmonic Distortion (THD)	NA
Power factor	0.5 Full load, 230 V, 50 Hz
Efficiency	82.5% Full load, 230 V, 50 Hz, typical
No-load power	< 0.5 W 230V, typical
Stand-by power	NA
Power loss	2.5W at 230V input @ 12W load max.
Input power	14.34W at 230V input @ 12W load max.
Protection class	II
Inrush current	< 5 A twidth = 100 µs typical (measured at 50% Ipeak)

2. Output

Nominal voltage range	16-34VDC
Maximum voltage	58VDC Open circuit
Nominal current range	350 mA
Current accuracy	+/- 5 %
Nominal power range	5.6-12W Partial Load.
Maximum power	12W Ta ≤ 40°C,
Safety isolation	SELV-equivalent 3,0 kVrms . Touch current < 0.7 mA

ECO-350D12

3. Environment

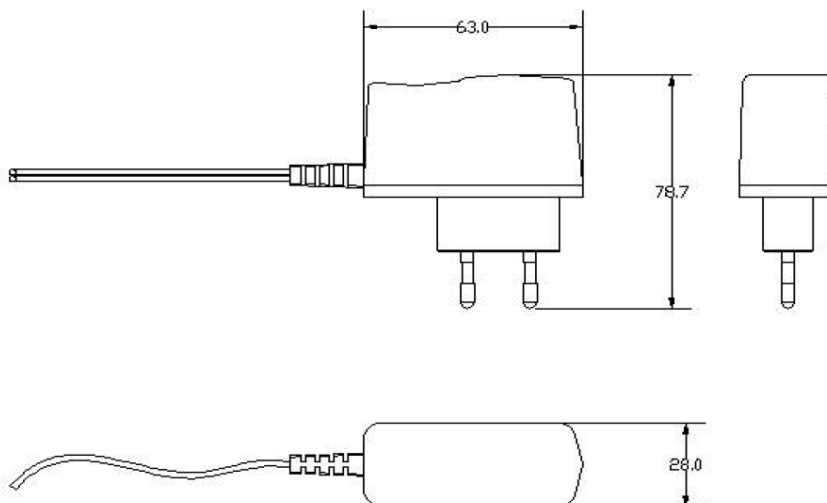
Ambient temperature range t_a	-20 ... +40°C
Maximum case temperature t_c	75°C Measured on t_c point indicated of the product label
Max. Case temp. in fault condition	110 °C
Storage temperature range	-25 ... +75 °C Cool down before operating
Relative humidity	5 ... 80 % Not condensing
Surge transient 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	> 50'000
Expected lifetime	40'000 @ $t_c = 85^\circ\text{C}$, B10 60'000 @ $t_c = 75^\circ\text{C}$, 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.

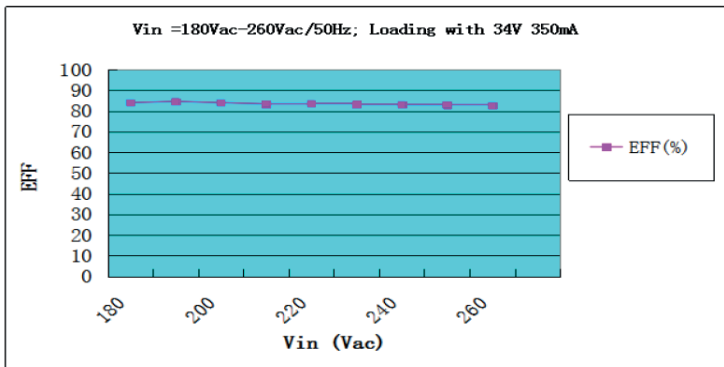
5. Dimension | Weight

Dimensions	63 x 78.7 x 28mm
Weight	80g
Max. cable length	2.2m
Cable crosssection, input side	NA
Cable crosssection, output side	0.2 ... 1.5 mm ²

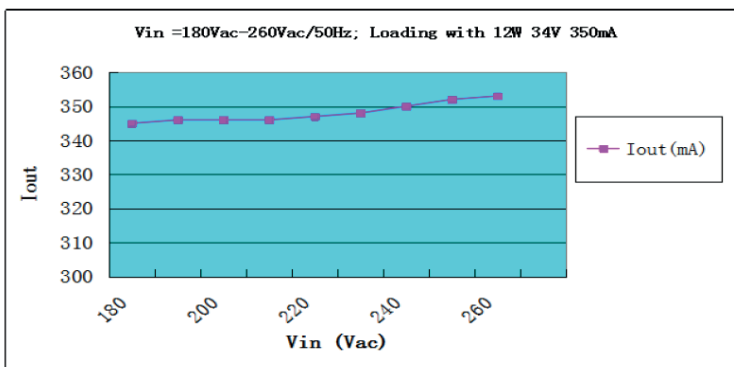


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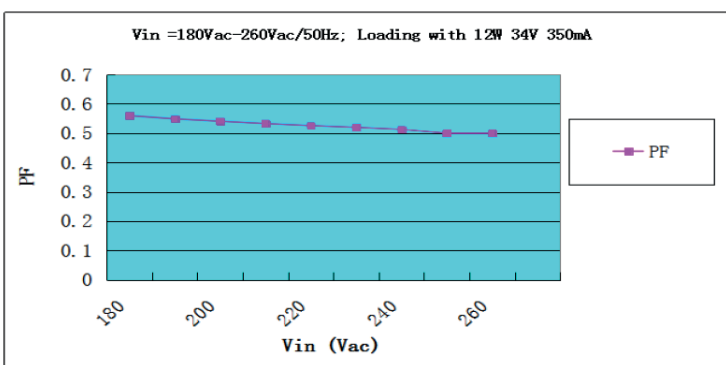
6.1 Variable Input Vs Efficiency



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.