

HW03-350E12SDA

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



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 Remark
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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	264V
Nominal current	90mA 230V @ 12W load
Total Harmonic Distortion (THD)	NA
Power factor	0.8 Full load, 230 V, 50 Hz
Efficiency	79% Full load, 230 V, 50 Hz, typical
Stand-by power	NA
Power loss	3.2 W at 230V input @ 12W load max.
Input power	15.2W 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	25-34VDC
Maximum voltage	50VDC Open circuit
Nominal current range	350mA
Current accuracy	± 5 %
Current ripple	10 % typical
Nominal power range	8 – 12W Partial Load.
Maximum power	12W Ta ≤ 50°C,
Safety isolation	SELV-equivalent 3 kVrms . Touch current < 0.7 mA

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3. Environment

Ambient temperature range t_a	-20 ... +50°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 0.5kV L/N LN/PE 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 hrs $t_a = 50^\circ\text{C}$, $t_c = 85^\circ\text{C}$, 10% failure rate
	≥50'000 hrs $t_a = 35^\circ\text{C}$, $t_c = 75^\circ\text{C}$, 10% failure rate

4. Protection

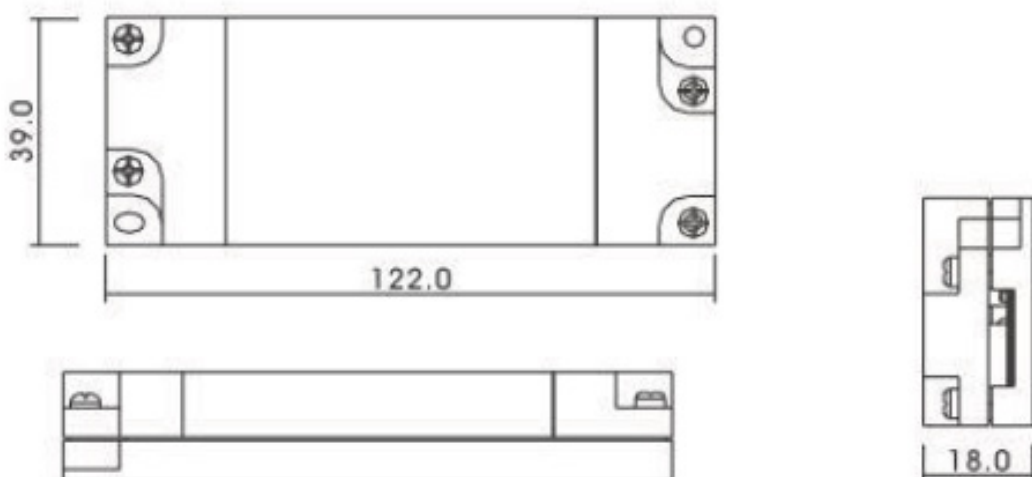
Overheating protection	yes, automatic reversible
Overload protection	yes, automatic reversible
Short-circuit protection	yes, automatic reversible
Hot plug-in protection	No, Hot plug-in or secondary switching of LEDs is not permitted and may cause a very high current to the LEDs.

5. Dimensions | Weight

Dimensions	122*39*18mm
Weight	76g
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

Switch function:

Step 1: switch on, 20% light ;
 Step 2: switch off and then switch on within 3seconds, 50% light ;
 Step 3: switch off and then switch on within 3seconds, 100% light ;
 Switch on after 3seconds, the chosen brightness is setted and memoried till next operation.

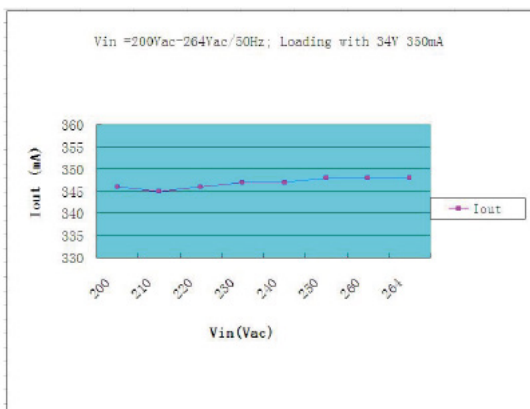


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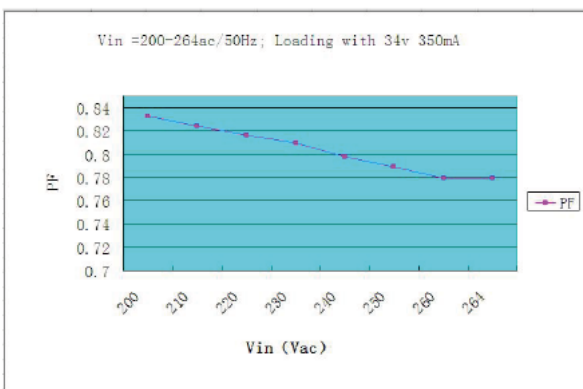
Variable Input Vs Efficiency



Variable Input Vs Iout Measurement



Variable Input Vs PF Measurement



Disclaimer

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 Always make sure to use the most recent release, or consult with us before your final selection.